



ANNUAL REPORT - INDICATORS
2019

INDEX

1	SCIENTIFIC OUTPUT	3
1.1	Books and chapters of books of international distribution.....	3
1.2	Handbooks and Magazines.....	3
1.3	Edited special issues of journals.....	4
1.4	Publications in peer review international journals	4
	Publications in numbers	20
1.5	Publications in International Conference Proceedings.....	20
1.5.1	Articles.....	20
1.5.2	Abstracts and Extended Abstracts	24
1.6	Other publications	27
1.7	Talks in Conferences	27
1.7.1	Invited	27
1.7.2	Contributed.....	31
	ORAL	31
	POSTER	43
2	SEMINARS.....	49
2.1	Seminars given by C ² TN members	49
2.2	Seminars hosted by C ² TN.....	52
3	PATENTS AND PERFORMING PATENTS	53
4	NEW MATERIALS, DEVICES, PRODUCTS AND PROCESSES	54
5	PERFORMANCES AND EXHIBITIONS	54
6	RESEARCH CONTRACTS	55
6.1	Industrial Research Contracts.....	55
6.2	European Research Contracts.....	56
6.3	Bilateral Projects.....	57
6.4	FCT-funded Projects	58
6.5	Others	59
6.5.1	Projects involving C2TN's participation in experiments at CERN.....	60
6.5.2	IAEA Projects	60
6.5.3	Portugal 2020	60
7	EDUCATION	61
7.1	Concluded PhD theses	61
7.2	Concluded MSc.....	61
7.3	Concluded Graduations	63
7.4	Courses given in Universities and Polytechnic Schools.....	64
7.5	Other Pedagogic Collaborations	66
7.6	Short Courses in National Institutions	68
8	SCIENTIFIC COMMITTEES	70
8.1	Representatives in Sc. Committees under the auspices of international organizations and institution	72
8.2	Representatives in international institutions, associations and European platforms.....	72
8.3	Members of Scientific or Organizing Committees of International Conferences	73
8.4	Conferences and Workshops Organization	73
	RESEARCH GROUPS TEAMS (staff and students)	75
8.5	Radiopharmaceutical Sciences Group - GCR	75
8.6	Radiation Protection and Safety Group - GPSR	76
8.7	Radiation, Elements and Isotopes Group - GREI	78
8.8	Nuclear Engineering and Techniques Group – ETN	79
8.9	f-Element Chemistry Group - QEf	81
8.10	Solid State Group - ES.....	82

Foreword by the President of C²TN

Dear Colleague, Dear reader,

2019 was a very demanding year. Throughout the year, the Centre for Nuclear Sciences and Technologies (C²TN) pursued with great success its main objectives, namely:

- To consolidate and to expand a Centre of Excellence in matters pertaining to Nuclear Sciences and Technologies and applications of Ionizing Radiation in multiple domains, namely Health and Life Sciences, Radiation Protection, Earth Sciences, Environment, Cultural Heritage and Materials Sciences
- To pursue its internationalization, continuing and extending its participation in the activities of international networks of excellence, European research platforms, international organizations (CERN, IAEA, others) and consolidating its cooperation with several tens of foreign universities, research centers, companies, NGOs, etc.
- To seek the diversification of its funding sources, through participation in consortia submitting funding proposals in national and international competitive Calls.
- To continue to play a cornerstone role in Portugal, through the uniqueness of the competences and skills of its researchers and the vast set of equipment, laboratories and infrastructures, some of them unique in Portugal and nodes of national and international networks.
- To continue engaging and furthering collaborative links as well as aggressively developing outreach and dissemination activities with society and stakeholders, in high impact sectors such as Health, Industry, Environment, Cultural Heritage, Materials, Food and Agriculture, Energy, and Security. C²TN's members engaged and collaborated with stakeholders in hospitals, industries, engineering and services companies, municipalities, museums, regulatory and competent authorities, professional associations, media professionals and NGOs.

The scientific and technology activities were sustained by several outputs that are detailed in this report, including, inter alia, bibliometric indicators as well as education, training and supervision of students, organization of international Conferences and Workshops and outreach activities.

The Coordinating Commission of C²TN has decided to publish the C²TN's Full Report on a biennial basis; in the intermediate years, a Progress Report (like this one) encompasses the compilation of the aforementioned indicators as well as other activities that contribute to project C²TN's activities nationwide and in the international arena.

I hope that this Report will allow you to gain an insightful view about the enormous importance and high impact C²TN's contributions and activities, in Portugal and internationally, in the field of Nuclear Sciences and Technologies and applications of ionizing radiation.

Pedro Vaz

(President of C²TN)

1 SCIENTIFIC OUTPUT

1.1 Books and chapters of books of international distribution

- Campos Ferreira, A., Inácio, M., Pereira, H., Paiva, I. (2019). *Modelling in Science and Engineering – A brief introduction to COMSOL Multiphysics 5*. Print by Amazon UK. ISBN: 9781795702348, 255 pp..
- Gano, L. & Paulo, A. (2019). Conventional nuclear medicine radiopharmaceuticals. In: *Radiopharmacy: an Update- A Technologist's Guide*, M.C. Attard, L. Camoni, S. Rac, M. Mada (Eds.), *European Association of Nuclear Medicine*, Vienna, Austria, Chapter 6, pp.71-92.
- Gonçalves, A.P., Lopes, E.B., & Delaizir, G. (2019). *Glass for Thermoelectric Applications*, In: Springer Handbook of Glass, J. David Musgraves, Juejun Hu, Laurent Calvez, (Eds.), Springer Nature Switzerland AG, Chapter 49, pp. 1675-1694. ISBN 978-3-319-93726-7. [doi:10.1007/978-3-319-93728-1](https://doi.org/10.1007/978-3-319-93728-1). https://www.eanm.org/content-eanm/uploads/2019/11/EANM19_TechGuide-1.pdf.
- Maria, L., Marçalo, J., & Gibson, J.K. (2019). Divalent Actinides and Transactinides: Inorganic and Organometallic Complexes. In: *The Heaviest Metals: Science and Technology of the Actinides and Beyond*, Eds. Evans, W.J.; Hanusa, T.P., John Willey & Sons Ltd, pp. 249-262. ISBN: 978-1-119-30409-8.
- Pereira, L.M.C., Vantomme, A., & Wahl, U. (2019). Characterizing defects with ion beam analysis and channeling techniques, In: *Characterisation and Control of Defects in Semiconductors*, F. Tuomisto, The Institution of Engineering and Technology, Chapter 11, pp. 501-561. ISBN-13: 978-1-78561-655-6. doi:10.1049/PBCS045
- Waerenborgh, J.C., Tavares, P., Pereira, A.S., (2019). Mössbauer Spectroscopy. In: *Radiation in Bioanalysis: Spectroscopic Techniques and Theoretical Methods*, Eds. A.S. Pereira; P. Tavares; P. Limão-Vieira, Springer Nature, Switzerland AG, Chapter 8, pp.213-244. ISSN 2364-1118. ISBN 978-3-030-28246-2. [doi:10.1007/978-3-030-28247-9](https://doi.org/10.1007/978-3-030-28247-9).

1.2 Handbooks and Magazines

- A.P. Gonçalves, L.C. Alves, A.M.M. Soares, "As contas discoides em pedra: caracterização química e mineralógica", *Col. Estudos Doc.* 12 (2019) 152-156.

- Canha, N., et al. (2019). In: *Interreg MED MOBILITAS project (2019) A handbook on sustainable mobility in the MED area*, Maggioli Editore, Italy. Chapters 1.4.6, 4.2.7 and 4.3.4.2. Available at: www.riminiventure.it/download/a-handbook-on-sustainable-mobility-in-the-med-area/
- J. Corisco. *Phosphogypsum stack at Barreiro, Portugal*. Newsletter: Access to Infrastructures for Radiation protection Research (AIR²), Issue 36, April 2019. CONCERT-EJP.

1.3 Edited special issues of journals

- A.Paulo and M. P. C. Campello, Special issue "Targeted Drug Delivery", Materials (MDPI) 2019.
- Frank Verhaegen, Pedro Vaz and Kevin M Prise (Eds.), "Small animal IGRT special feature". Proceedings of the 4th Conference on Small Animal Precision Image Guided Radiation Therapy", Lisbon, 12-14 March 2018. Special Issue of the British Journal of Radiology. Br J Radiol 2019; 92: 20199002. doi: 10.1259/ bjr.20199002
- Carreira, P.M.; Marques, J.M.; Piscopo, V. (2019). Editors of the Special Issue on Studies in Mineral and Thermal Waters. Sustainable Water Resources Management. Springer. Vol.5 (4). December 2019

1.4 Publications in peer review international journals

- Abad, M., Muñoz, A.F., González-Regalado, M. L., Ruiz, F., Rodríguez-Vidal, J., Cáceres, L.M., Carretero, M.I., Monge, G., Pozo, M., Prudêncio, M.I., Dias, M.I., Marques, R., Izquierdo, T., Tosquella, J., & Romero, V. (2019). Palaeoenvironmental evolution of a Late Holocene peat bog in the southwestern sector of the Donana National Park (SW Spain). *Estudios Geologicos-Madrid*, 75(1), e087. [doi:10.3989/egeol.43417.514](https://doi.org/10.3989/egeol.43417.514). WOS:000473738000002.
- Al-Rjoub, A., Costa, P., Rebouta, L., Radovic, I.B., Arstila, K., Barradas, N.P., Alves, E., Matilainen, A., & Pischow, K. (2019). A study of solar thermal absorber stack based on CrAlSiN_x/CrAlSiN_xO_y structure by ion beams. *Nuclear Instruments & Methods in Physics Research B*, 450, 195-199. [doi:10.1016/j.nimb.2018.04.024](https://doi.org/10.1016/j.nimb.2018.04.024). WOS:000474501400040.
- Al-Rjoub, A., Rebouta, L., Costa, P., Vieira, L.G., Miranda, T.M.R., Barradas, N.P., & Alves, E. (2019). CrAlSiN barrier layer to improve the thermal stability of W/CrAlSiN_x/CrAlSiO_yN_x/SiAlO_x solar thermal absorber. *Solar Energy Materials and Solar Cells*, 191, 235-242. [doi:10.1016/j.solmat.2018.11.023](https://doi.org/10.1016/j.solmat.2018.11.023). WOS:000456640000029.
- Al-Rjoub, A., Rebouta, L., Costa, P., Cunha, N.F., Lanceros-Mendez, S., Barradas, N.P., & Alves, E. (2019). The effect of increasing Si content in the absorber layers (CrAlSiN_x/CrAlSiO_yN_x) of solar selective absorbers upon their selectivity and thermal

- stability. *Applied Surface Science*, 481, 1096-1102. [doi:10.1016/j.apsusc.2019.03.208](https://doi.org/10.1016/j.apsusc.2019.03.208). WOS:000472176900128.
- Alvarez-Valdes, A., Matesanz, A.I., Perles, J., Fernandes, C., Correia, J.D.G., Mendes, F., & Quiroga, A.G. (2019). Novel structures of platinum complexes bearing N-bisphosphonates and study of their biological properties. *Journal of Inorganic Biochemistry*, 191, 112-118. [doi:10.1016/j.jinorgbio.2018.11.010](https://doi.org/10.1016/j.jinorgbio.2018.11.010). WOS:000456898700012.
 - Alves, J.G., et al. (2019). EURADOS education and training activities. *Journal Radiological Protection*, 39(4), R37-R50. [doi:10.1088/1361-6498/ab3256](https://doi.org/10.1088/1361-6498/ab3256). WOS:000518766800001.
 - Alves, J.G., Sarmiento, S., Pereira, J.S., Pereira, M.F., Sousa, M.J., Cunha, L., Dias, A., Oliveira, A.D., Cardoso, J.V., Santos, L.M., Lencart, J., Gouvea, M., & Santos, J.A.M. (2019). Dose to the interventional radiologist in CTF-guided procedures. *Radiation and environmental biophysics*, 58, 373-384. [doi:10.1007/s00411-019-00792-3](https://doi.org/10.1007/s00411-019-00792-3). WOS:000474439000006.
 - Amaducci, S., et al. (2019). Measurement of the $^{235}\text{U}(n, f)$ cross section relative to the $^6\text{Li}(n, t)$ and $^{10}\text{B}(n, \alpha)$ standards from thermal to 170 keV neutron energy range at n_TOF. *European Physical Journal A*, 55(7), 120 (19p.). [doi:10.1140/epja/i2019-12802-7](https://doi.org/10.1140/epja/i2019-12802-7). WOS:000477050900001.
 - Bandiera, M., Lehuédé, P., Verità, M., Alves, L.C., Biron, I., Vilarigues, M. (2019) Nanotechnology in Roman Opaque Red Glass from the 2nd Century AD. Archaeometric Investigation in Red Sectilia from the Decoration of the Lucius Verus Villa in Rome. *Heritage*, 2, 2597-2611. [doi:10.3390/heritage2030159](https://doi.org/10.3390/heritage2030159).
 - Baptista, M., Di Maria, S., Vieira, S., Santos, J., Pereira, J., Pereira, M., & Vaz, P. (2019). Dosimetric assessment of the exposure of radiotherapy patients due to cone-beam CT procedures. *Radiation and environmental biophysics*, 58(1), 21-37. [doi:10.1007/s00411-018-0760-7](https://doi.org/10.1007/s00411-018-0760-7). WOS:000459547400003.
 - Barbosa, M.B., Correia, J.G., Lorenz, K., Vianden, R., & Araújo, J.P. (2019). Studying electronic properties in GaN without electrical contacts using γ - γ vs e^- - γ Perturbed Angular Correlations. *Scientific Reports*, 9, 15734 (13p). [doi:10.1038/s41598-019-52098-5](https://doi.org/10.1038/s41598-019-52098-5). WOS:000493439600032.
 - Barros, R., Saji, K. J., Waerenborgh, J. C., Barquinha, P., Pereira, L., Carlos, E., Martins, E., & Fortunato, E. (2019). Role of Structure and Composition on the Performances of P-Type Tin Oxide Thin-Film Transistors Processed at Low-Temperatures. *Nanomaterials*, 9(3), 320 (18 p.). [doi:10.3390/nano9030320](https://doi.org/10.3390/nano9030320). WOS:000464443400001.
 - Berkovskyy, V., et al. (2019). A robust methodology for assessing thyroid absorbed doses based on individual monitoring data after a severe nuclear accident. *Radiation Measurements*, 129, 106183. [doi: 10.1016/j.radmeas.2019.106183](https://doi.org/10.1016/j.radmeas.2019.106183).

- Bermejo, J., Gómez, P., González-Regalado, M. L., Ruiz, F., Campos, J. M., Rodríguez-Vidal, J., Cáceres, L.M., Clemente, M.J., Toscano, A., Abad, M., Izquierdo, T., Prudêncio, M.I., Dias, M.I., Marques, R., Tosquella, J., Carretero, M.I., Monge, G., & Romero, V. (2019). A new roman fish-salting workshop in the Saltes Island (Tinto-Odiel Estuary, SW Spain): La Cascajera and its archaeological and geological context. *Cuaternario Y Geomorfología*, 33(3-4), 9-24. [doi:10.17735/cyg.v33i3-4.69080](https://doi.org/10.17735/cyg.v33i3-4.69080). WOS:000503069400003.
- Blasco, R., Ajay, A., Robin, E., Bougerol, C., Lorentz, K., Alves, L.C., Mouton, I., Amichi, L., Grenier, A., & Monroy, E. (2019). Electrical and optical properties of heavily Ge-doped AlGaIn. *Journal of Physics D*, 52(12), 125101 (8pp.). [doi:10.1088/1361-6463/aafec2](https://doi.org/10.1088/1361-6463/aafec2). WOS:000456839600001.
- Borbinha, J., Di Maria, S., Madeira, P., Belchior, A., Baptista, M., & Vaz, P. (2019). Increasing organ dose accuracy through voxel phantom organ matching with individual patient anatomy. *Radiation Physics and Chemistry*, 159, 35-46. [doi:10.1016/j.radphyschem.2019.02.014](https://doi.org/10.1016/j.radphyschem.2019.02.014). WOS:000472690000006.
- Branco, J.B., & Ferreira, A.C. (2019). Methanation of CO₂ Over Bimetallic Ni-5f Block Element (Th, U) Oxides. *European Journal of Inorganic Chemistry* (7), 1039-1045. [doi:10.1002/ejic.201801490](https://doi.org/10.1002/ejic.201801490). WOS:000459316800014.
- Brites, M.J., Barreiros, M.A., Corregidor, V., Alves, L.C., Pinto, J.V., Mendes, M.J., Fortunato, E., Martins, R., & Mascarenhas, J. (2019). Ultrafast Low-Temperature Crystallization of Solar Cell Graded Formamidinium-Cesium Mixed-Cation Lead Mixed-Halide Perovskites Using a Reproducible Microwave-Based Process. *ACS Applied Energy Materials*, 2(3), 1844-1853. [doi:10.1021/acsaem.8b02005](https://doi.org/10.1021/acsaem.8b02005). WOS:000462944700032.
- Broggio, D., et al. (2019). Child and adult thyroid monitoring after a reactor accident (CATHYMAR): Technical recommendations and remaining gaps. *Radiation Measurements*, 128, 106069. [doi:10.1016/j.radmeas.2019.02.008](https://doi.org/10.1016/j.radmeas.2019.02.008). WOS:000497891200013.
- Broggio, D., Teles, P., Vrba, T., & Berkovskyy, V. (2019). Assessment from in vivo measurements of thyroid dose due to iodine-131 inhalation when stable iodine has been administered. *Radiation Measurements*, 127, 106144. [doi:10.1016/j.radmeas.2019.106144](https://doi.org/10.1016/j.radmeas.2019.106144). WOS:000483655000008.
- Caetano, L.A., Faria, T., Springer, J., Loeffler, J., & Viegas, C. (2018) Antifungal-resistant Mucorales in different indoor environments, *Mycology*, 10(2), 75-83. [doi:10.1080/21501203.2018.1551251](https://doi.org/10.1080/21501203.2018.1551251). MEDLINE:31069121.
- Campello, M.P.C., Palma, E., Correia, I., Paulo, P.M.R., Matos, A., Rino, J., Coimbra, J., Pessoa, J.C., Gambino, D., Paulo, A., & Marques, F. (2019). Lanthanide complexes with phenanthroline-based ligands: insights into cell death mechanisms obtained by microscopy techniques. *Dalton Transactions*, 48(14), 4611-4624. [doi:10.1039/c9dt00640k](https://doi.org/10.1039/c9dt00640k). WOS:000467173800019.

- Canha, N., Freitas, M.D., & Almeida, S.M. (2019). Contribution of short irradiation instrumental neutron activation analysis to assess air pollution at indoor and outdoor environments using transplanted lichens. *Journal of Radioanalytical and Nuclear Chemistry*, 320(1), 129-137. [doi:10.1007/s10967-019-06461-5](https://doi.org/10.1007/s10967-019-06461-5). WOS:000462211000014.
- Canha, N., Lage, J., Coutinho, J. T., Alves, C., & Almeida, S. M. (2019). Comparison of indoor air quality during sleep in smokers and non-smokers' bedrooms: A preliminary study. *Environmental Pollution*, 249, 248-256. [doi:10.1016/j.envpol.2019.03.021](https://doi.org/10.1016/j.envpol.2019.03.021). WOS:000471081300027.
- Cardoso, R.V.C., Fernandes, A., Barreira, J.C.M., Cabo Verde, S., António, A.L., Gonzalez-Paramas, A.M., Barros, L., & Ferreira, I. (2019). Effectiveness of gamma and electron beam irradiation as preserving technologies of fresh *Agaricus bisporus* Portobello: A comparative study. *Food Chemistry*, 278, 760-766. [doi:10.1016/j.foodchem.2018.11.116](https://doi.org/10.1016/j.foodchem.2018.11.116). WOS:000453529300095.
- Carreira, P.M., Costa, A., Soares, A.M., Nunes, D., João, M., & Valadas, Â. (2019). Carbon-14 content as a support for Moura mineral water aquifer conceptual model. *Sustainable Water Resources Management*, 5 (4), 1455-1468. [doi: 10.1007/s40899-019-00313-6](https://doi.org/10.1007/s40899-019-00313-6). WOS:000494686800007.
- Carvalho, J., Lopes-Nunes, J., Lopes, A.C., Campello, M.P.C., Paulo, A., Queiroz, J.A., & Cruz, C. (2019). Aptamer-guided acridine derivatives for cervical cancer. *Organic & Biomolecular Chemistry*, 17(11), 2992-3002. [doi:10.1039/c9ob00318e](https://doi.org/10.1039/c9ob00318e). WOS:000461223700017.
- Carvalho, J., Paiva, A., Campello, M.P.C., Paulo, A., Mergny, J.L., Salgado, G.F., Queiroz, J.A., & Cruz, C. (2019). Aptamer-based Targeted Delivery of a G-quadruplex Ligand in Cervical Cancer Cells. *Scientific Reports*, 9, 7945 (12 p.) [doi:10.1038/s41598-019-44388-9](https://doi.org/10.1038/s41598-019-44388-9). WOS:000461223700017.
- Casimiro, M.H., Ferreira, L.M., Leal, J.P., Pereira, C.C.L., & Monteiro, B. (2019). Ionizing Radiation for Preparation and Functionalization of Membranes and Their Biomedical and Environmental Applications. *Membranes*, 9(12), 163 (28 p.). [doi:10.3390/membranes9120163](https://doi.org/10.3390/membranes9120163). WOS:000506051700011.
- Cesaro, A., Belgiorno, V., Gorrasi, G., Viscusi, G., Vaccari, M., Vinti, G., Jandric, A., Dias, M.I., Hursthouse, A., & Salhofer, S. (2019). A relative risk assessment of the open burning of WEEE. *Environmental Science and Pollution Research*, 26(11), 11042-11052. [doi:10.1007/s11356-019-04282-3](https://doi.org/10.1007/s11356-019-04282-3). WOS:000464854500051.
- Chalvatzaki, E., Chatoutsidou, S.E., Lehtomaki, H., Almeida, S.M., Eleftheriadis, K., Hanninen, O., & Lazaridis, M. (2019). Characterization of Human Health Risks from Particulate Air Pollution in Selected European Cities. *Atmosphere*, 10 (2), 96 (16 pp.). [doi:10.3390/atmos10020096](https://doi.org/10.3390/atmos10020096). WOS:000460697800056.

- Connah, L., Joshi, R., Vibhute, S., Gambino, G., Correia, J.D.G., & Angelovski, G. (2019). Solid-Phase-Supported Approach for the Preparation of Bioresponsive and Multifunctional MRI Probes. *Organic Letters*, 21(14), 5378-5382. [doi:10.1021/acs.orglett.9b01341](https://doi.org/10.1021/acs.orglett.9b01341). WOS:000476957200002.
- Corregidor, V., Viegas, R., Ferreira, L.M., & Alves, L.C. (2019). Study of Iron Gall Inks, Ingredients and Paper Composition Using Non-Destructive Techniques. *Heritage*, 2(4), 2691-2703. [doi:10.3390/heritage2040166](https://doi.org/10.3390/heritage2040166).
- Corte-Real, L., Karas, B., Bras, A.R., Pilon, A., Avecilla, F., Marques, F., Preto, A., Buckley, B. T., Cooper, K.R., Doherty, C., Garcia, M.H., & Valente, A. (2019). Ruthenium-Cyclopentadienyl Bipyridine-Biotin Based Compounds: Synthesis and Biological Effect. *Inorganic Chemistry*, 58(14), 9135-9149. [doi:10.1021/acs.inorgchem.9b00735](https://doi.org/10.1021/acs.inorgchem.9b00735). WOS:000475838000030.
- Corte-Real, L., Karas, B., Girio, P., Moreno, A., Avecilla, F., Marques, F., Buckley, B.T., Cooper, K.R., Doherty, C., Falson, P., Garcia, M.H., & Valente, A. (2019). Unprecedented inhibition of P-gp activity by a novel ruthenium-cyclopentadienyl compound bearing a bipyridine-biotin ligand. *European Journal of Medicinal Chemistry*, 163, 853-863. [doi:10.1016/j.ejmech.2018.12.022](https://doi.org/10.1016/j.ejmech.2018.12.022). WOS:000458597300062.
- Cortinhas Alves, T.K., Domingues, G., Lopes, E.B., & Gonçalves, A.P. (2019). Effect of Composition on Thermoelectric Properties of As-Cast Materials: The $\text{Cu}_{12-x}\text{Co}_x\text{Sb}_4\text{S}_{13-y}\text{Se}_y$ Case. *Journal of Electronic Materials*, 48(4), 2028-2035. [doi:10.1007/s11664-019-06956-7](https://doi.org/10.1007/s11664-019-06956-7). WOS:000460453100034.
- Costa, A.R.G., Wahl, U., Correia, J.G., David-Bosne, E., Augustyns, V., Lima, T.A.L., Silva, D.J., da Silva, M.R., Bharuth-Ram, K., & Pereira, L.M.C. (2019). Lattice location study of low-fluence ion-implanted ^{124}In in 3C-SiC. *Journal of Applied Physics*, 125, 215706. [doi:10.1063/1.5097032](https://doi.org/10.1063/1.5097032). WOS:000470721900059.
- Costa, J.P., Pinheiro, M.J.F., Sousa, S.A., Botelho do Rego, A.M., Marques, F., Oliveira, M.C., Leitão, J.H., Mira, N.P., & Carvalho, M.F.N.N. (2019). Antimicrobial Activity of Silver Camphorimine Complexes against Candida Strains. *Antibiotics-Basel*, 8(3), 144 (13p.). [doi:10.3390/antibiotics8030144](https://doi.org/10.3390/antibiotics8030144). WOS:000489181000059.
- Costa, P., Al-Rjoub, A., Rebouta, L., Manninen, N.K., Alves, D., Almeida, B., Barradas, N.P., & Alves, E. (2019). Influence of Al/Si atomic ratio on optical and electrical properties of magnetron sputtered $\text{Al}_{1-x}\text{Si}_x\text{O}_y$ coatings. *Thin Solid Films*, 669, 475-481. [doi:10.1016/j.tsf.2018.11.036](https://doi.org/10.1016/j.tsf.2018.11.036). WOS:000453405600068.
- Coutinho, I., Alves, L.C., & Medici, T. (2019). The Broken Piece of a Larger Picture: A Renaissance Enameled Glass Fragment Depicting a Triumphal Procession. *Journal of Glass Studies*, 61, 87-95. <https://www.jstor.org/stable/26862830>. WOS:000498477000006.

- Coutinho, J.T., Perfetti, M., Baldovi, J.J., Antunes, M.A., Hallmen, P.P., Bamberger, H., Crassee, I., Orlita, M., Almeida, M., van Slageren, J., & Pereira, L.C.J. (2019). Spectroscopic Determination of the Electronic Structure of a Uranium Single-Ion Magnet. *Chemistry-A European Journal*, 25(7), 1758-1766. [doi:10.1002/chem.201805090](https://doi.org/10.1002/chem.201805090). WOS:000459811300022.
- Coutinho, M.L., Miller, A. Z., Phillip, A., Mirão, J., Dias, L., Rogerio-Candelera, M. A., Saiz-Jimenez, C., Martin-Sanchez, P.M., Cerqueira-Alves, L., & Macedo, M.F. (2019). Biodeterioration of majolica glazed tiles by the fungus *Devriesia imbrexigena*. *Construction and Building Materials*, 212, 49-56. [doi:10.1016/j.conbuildmat.2019.03.268](https://doi.org/10.1016/j.conbuildmat.2019.03.268). WOS:000471358200006.
- Crespo, R., Cravo, E., & Deltuva, A. (2019). Three-body calculations for (*p*, *pN*) reactions: Kinematically inclusive, semi-inclusive, and fully exclusive cross sections. *Physical Review C*, 99(5), 054622. [doi:10.1103/PhysRevC.99.054622](https://doi.org/10.1103/PhysRevC.99.054622). WOS:000469018900003.
- Cruz, T.F.C., Pereira, L.C.J., Waerenborgh, J.C., Veiros, L.F., & Gomes, P.T. (2019). Hydroboration of terminal olefins with pinacolborane catalyzed by new 2-iminopyrrolyl iron(II) complexes. *Catalysis Science & Technology*, 9(13), 3347-3360. [doi:10.1039/c8cy02319k](https://doi.org/10.1039/c8cy02319k). WOS:000474624000022.
- Cudalbeanu M, Furdul B, Cârâc G, Barbu V, Iancu AV, Marques F, Leitão JH, Sousa SA, Dinica RM (2019). Antifungal, Antitumoral and Antioxidant Potential of the Danube Delta *Nymphaea alba* Extracts. *Antibiotics (Basel)* 9(1), 7. DOI: 10.3390/antibiotics9010007
- Cunha-Lopes, I., Martins, V., Faria, T., Correia, C., & Almeida, S. M. (2019). Children's exposure to sized-fractioned particulate matter and black carbon in an urban environment. *Building and Environment*, 155, 187-194. [doi:10.1016/j.buildenv.2019.03.045](https://doi.org/10.1016/j.buildenv.2019.03.045). WOS:000464943500016.
- Demoro, B., Bento-Oliveira, A., Marques, F., Pessoa, J.C., Otero, L., Gambino, D., de Almeida, R.F.M., & Tomaz, A.I. (2019). Interaction with Blood Proteins of a Ruthenium(II) Nitrofuryl Semicarbazone Complex: Effect on the Antitumoral Activity. *Molecules*, 24(16), 2861 (19 p.). [doi:10.3390/molecules24162861](https://doi.org/10.3390/molecules24162861). WOS:000482998900156.
- Dias, M., Antão, F., Catarino, N., Galatanu, A., Galatanu, M., Ferreira, P., Correia, J.B., da Silva, R.C., Gonçalves, A.P., & Alves, E. (2019). Sintering and irradiation of copper-based high entropy alloys for nuclear fusion. *Fusion Engineering and Design*, 146, 1824-1828. [doi:10.1016/j.fusengdes.2019.03.044](https://doi.org/10.1016/j.fusengdes.2019.03.044). WOS:000488313700093.
- Dominelli, B., Roberts, G.M., Jandl, C., Fischer, P.J., Reich, R.M., Pothig, A., Correia, J.D.G., & Kuhn, F.E. (2019). Dinuclear zwitterionic silver(i) and gold(i) complexes bearing 2,2-acetate-bridged bisimidazolyldiene ligands. *Dalton Transactions*, 48, 14036-14043. [doi:10.1039/c9dt03035b](https://doi.org/10.1039/c9dt03035b). WOS:000487514400015.

- Domingues, R.P., Rodrigues, M.S., Lopes, C., Pedrosa, P., Alves, E., Barradas, N.P., Borges, J., & Vaz, F. (2019). Thin films composed of metal nanoparticles (Au, Ag, Cu) dispersed in AlN: The influence of composition and thermal annealing on the structure and plasmonic response. *Thin Solid Films*, 676, 12-25. [doi:10.1016/j.tsf.2019.02.047](https://doi.org/10.1016/j.tsf.2019.02.047). WOS:000462039400003.
- Espinha Marques, J., Marques, J.M., Carvalho, A., Carreira, P.M., Moura, R., & Mansilha, C. (2019). Groundwater resources in a Mediterranean mountainous region: environmental impact of road de-icing. *Sustainable Water Resources Management*, 5(1), 305-317. [doi:10.1007/s40899-017-0170-z](https://doi.org/10.1007/s40899-017-0170-z). WOS:000461049400022.
- Faye, D. N., Biquard, X., Nogales, E., Felizardo, M., Peres, M., Redondo-Cubero, A., Auzelle, T., Daudin, B., Tizei, L.H.G., Kociak, M., Ruterana, P., Moller, W., Mendez, B., Alves, E., & Lorenz, K. (2019). Incorporation of Europium into GaN Nanowires by Ion Implantation. *Journal of Physical Chemistry C*, 123(18), 11874-11887. [doi:10.1021/acs.jpcc.8b12014](https://doi.org/10.1021/acs.jpcc.8b12014). WOS:000467781000059.
- Feldiorean, D., Cristea, D., Tiorean, M., Croitoru, C., Gabor, C., Jakab-Farkas, L., Cunha, L., Barradas, N.P., Alves, E., Craciun, V., Marin, A., Moura, C., Leme, J., Socol, M., Craciun, D., Cosnita, M., & Munteanu, D. (2019). Deposition temperature influence on the wear behaviour of carbon-based coatings deposited on hardened steel. *Applied Surface Science*, 475, 762-773. [doi:10.1016/j.apsusc.2019.01.028](https://doi.org/10.1016/j.apsusc.2019.01.028). WOS:000458482100090.
- Ferreira, A.C., & Branco, J.B. (2019). Methanation of CO₂ over nanostructured nickel-4f block element bimetallic oxides. *International Journal of Hydrogen Energy*, 44 (13), 6505-6513. [doi:10.1016/j.ijhydene.2019.01.160](https://doi.org/10.1016/j.ijhydene.2019.01.160). WOS:000461728700012.
- Ferreira, A.C., & Branco, J.B. (2019). New approach for the synthesis of nanostructured binary f-block intermetallic compounds: CO₂ methanation studies. *Intermetallics*, 108, 32-38. [doi:10.1016/j.intermet.2019.02.003](https://doi.org/10.1016/j.intermet.2019.02.003). WOS:000463125900004.
- Figueiredo, J., Lopes-Nunes, J., Carvalho, J., Antunes, F., Ribeiro, M., Campello, M.P.C., Paulo, A., Paiva, A., Salgado, G.F., Queiroz, J.A., Mergny, J.L., & Cruz, C. (2019). AS1411 derivatives as carriers of G-quadruplex ligands for cervical cancer cells. *International Journal of Pharmaceutics*, 568, 118511. [doi:10.1016/j.iupharm.2019.118511](https://doi.org/10.1016/j.iupharm.2019.118511). WOS:000482624300007.
- Gano, L., Pinheiro, T., Matos, A.P., Tortosa, F., Jorge, T.F., Gonçalves, M.S., Martins, M., Morais, T.S., Valente, A., Tomaz, A.I., Garcia, M.H., & Marques, F. (2019). Antitumour and Toxicity Evaluation of a Ru(II)-Cyclopentadienyl Complex in a Prostate Cancer Model by Imaging Tools. *Anti-Cancer Agents in Medicinal Chemistry*, 19(10), 1262-1275. [doi:10.2174/18715206190318152726](https://doi.org/10.2174/18715206190318152726). WOS:000492763600007.
- García-Romero, E., Manchado, E.M., Suarez, M., & García-Rivas, J. (2019). Spanish Bentonites: A Review and New Data on Their Geology, Mineralogy, and Crystal Chemistry. *Minerals*, 9 (11), 696. [doi:10.3390/min9110696](https://doi.org/10.3390/min9110696). WOS:000502267100049.

- Gawlik, A., *et al.* & n_TOF Collaboration (2019). Measurement of the $^{70}\text{Ge}(n, \gamma)$ cross section up to 300 keV at the CERN n_TOF facility. *Physical Review C*, 100(4), 045804. [doi:10.1103/PhysRevC.100.045804](https://doi.org/10.1103/PhysRevC.100.045804). WOS:000490751000004.
- Gómez-Ros, J.M., Moraleda, M., Teles, P., Tyminska, K., Saizu, M.A., Gregoratto, D., Lombardo, P., Berkovsky, V., Ratia, G., & Broggio, D. (2019). Age-dependent calibration factors for in-vivo monitoring of I-131 in thyroid using Monte Carlo simulations. *Radiation Measurements*, 125, 96-105. [doi:10.1016/j.radmeas.2019.04.022](https://doi.org/10.1016/j.radmeas.2019.04.022). WOS:000472126700016.
- Gonçalves, A.P., & Lopes, E.B. (2019). Towards the Use of Cu-S Based Synthetic Minerals for Thermoelectric Applications. *Semiconductors*, 53(13), 1817-1824. [doi:10.1134/s1063782619130086](https://doi.org/10.1134/s1063782619130086). WOS:000510634400012.
- Gonçalves, A.P., Dias, M., Carvalho, P.A., Maskova, S., Havela, L., & Divis, M. Peculiar properties of UMB_4 ($M = \text{V, Cr, Mo, W}$) uranium borides. *Advances in Applied Ceramics*, 118 (4), 189-195. [doi:10.1080/17436753.2019.1584480](https://doi.org/10.1080/17436753.2019.1584480). WOS:000466679800001.
- González-Regalado, M. L., Romero, V., Abad, M., Tosquella, J., Izquierdo, T., Gómez, P., Clemente, M.J., Toscano, A., Vidal, J.R., Cáceres, L.M., Muñoz, J.M., Prudêncio, M.I., Dias, M.I., Marques, R., García, E.X.M., Carretero, M.I., Ruiz, F., & Monge, G. (2019). Late Tortonian-Middle Messinian Palaeoenvironmental Changes in the Western Betic Strait (SW Spain). *Ameghiniana*, 56 (4), 336-360. [doi:10.5710/amgh.04.06.2019.3253](https://doi.org/10.5710/amgh.04.06.2019.3253). WOS:000503995900005.
- González-Regalado, M.L., Carro, B., Arroyo, M., Ruiz, F., Borrego, J., Abad, M., Izquierdo, T., Tosquella, J., Prudêncio, M.I., Dias, M.I., Marques, R., Romero, V., Vidal, J.R., Cáceres, L.M., Gómez, P., Toscano, A., Monge, G., Carretero, M.I., Campos, M., Bermejo, J., García, J.X.M. (2019). Distribution of Benthic Foraminifera in the Marine Estuary of the Guadalquivir River (SW Spain): A Preliminary Report. *Oceanography & Fisheries, Open access Journal*, 9(2), 555759. [doi:10.19080/OFOAJ.2019.09.555759](https://doi.org/10.19080/OFOAJ.2019.09.555759).
- González-Regalado, M.L., Gómez, P., Ruiz, F., Cáceres, L.M., Clemente, M.J., Rodríguez-Vidal, J., Toscano, A., Monge, G., Abad, M., Izquierdo, T., Soares, A.M.M., Campos, J.M., Bermejo, J., Martínez-Aguirre, A., & Lopez, G.I. (2019). Holocene palaeoenvironmental evolution of Salt,s Island (Tinto and Odiel estuary, SW Spain) during the Roman period (1st century BC-5th century AD). *Journal of Iberian Geology*, 45 (1), 129-145. [doi:10.1007/s41513-018-0089-8](https://doi.org/10.1007/s41513-018-0089-8). WOS:000459558800008.
- González-Regalado, M.L., Gómez, P., Ruiz, F., Cáceres, L.M., Clemente, M.J., Vidal, J.R., Toscano, A., Monge, G., Abad, M., Izquierdo, T., Campos, J.M., Bermejo, J., Martínez-Aguirre, A., Prudêncio, M.I., Dias, M.I., Marques, R., & Munoz, J. M. (2019). Facies analysis, foraminiferal record and chronostratigraphy of Holocene sequences from Saltes Island (Tinto-Odiel estuary, SW Spain): The origin of high-energy deposits. *Estuarine Coastal and Shelf Science*, 218, 95-105. [doi:10.1016/j.ecss.2018.12.005](https://doi.org/10.1016/j.ecss.2018.12.005). WOS:000459519700010.

- Ibrahim, A.B.M., Farh, M.K., Santos, I.C., & Paulo, A. (2019). Nickel Complexes Bearing SNN and SS Donor Atom Ligands: Synthesis, structural characterization and biological activity. *Applied Organometallic Chemistry*, e5088 (10 p.). [doi:10.1002/aoc.5088](https://doi.org/10.1002/aoc.5088). WOS:000477532900001.
- Irto, A., Cardiano, P., Chand, K., Cigala, R. M., Crea, F., De Stefano, C., Gano, L., Gattuso, G., Sammartano, S., & Santos, M.A. (2019). A new bis-(3-hydroxy-4-pyridinone)-DTPA-derivative: Synthesis, complexation of di-/tri-valent metal cations and in vivo M^{3+} sequestering ability. *Journal of Molecular Liquids*, 281, 280-294. [doi:10.1016/j.molliq.2019.02.042](https://doi.org/10.1016/j.molliq.2019.02.042). WOS:000465049400031.
- Jiang, J.H., Lee, S., Zhu, B., Yu, Y., Waerenborgh, J.C., Choi, K.Y., & Lu, M.F. (2019). Variable Dimensionality, Valence, and Magnetism in Fluoride-Rich Iron Phosphates $Ba_xFe_x(PO_4)_y$ ($1 \leq x \leq 3$, $2 \leq y \leq 12$). *Inorganic Chemistry*, 58(1), 133-142. [doi:10.1021/acs.inorgchem.8b01982](https://doi.org/10.1021/acs.inorgchem.8b01982). WOS:000455289000025.
- Justino, A.R., Canha, N., Gamelas, C., Coutinho, J.T., Kertesz, Z., & Almeida, S.M. Contribution of micro-PIXE to the characterization of settled dust events in an urban area affected by industrial activities. *Journal of Radioanalytical and Nuclear Chemistry*, 322, 1953-1964. [doi:10.1007/s10967-019-06860-8](https://doi.org/10.1007/s10967-019-06860-8). WOS:000490860700003.
- Kolotygin, V.A., Tsipis, E.V., Patrakeev, M.V., Waerenborgh, J.C., & Kharton, V.V. (2019). Time degradation of electronic and ionic transport in perovskite-like $La_{0.5}Ca_{0.5}FeO_{3-\delta}$. *Materials Letters*, 239, 167-171. [doi:10.1016/j.matlet.2018.11.180](https://doi.org/10.1016/j.matlet.2018.11.180). WOS:000456707800044.
- Leal, J.P., Paz, F.A.A., Mendes, R.F., Moreira, T., Outis, M., Laia, C.A.T., Monteiro, B., & Pereira, C.C.L. A Reusable Eu^{3+} Complex for Naked-Eye Discrimination of Methanol from Ethanol with a Ratiometric Fluorimetric Equilibrium in Methanol/Ethanol Mixtures. *European Journal of Inorganic Chemistry*, 4727-4734. [doi:10.1002/ejic.201900843](https://doi.org/10.1002/ejic.201900843). WOS:000497228700001.
- Lederer-Woods, C., et al. (2019). Measurement of $^{73}Ge(n, \gamma)$ cross sections and implications for stellar nucleosynthesis. *Physics Letters B*, 790, 458-465. [doi:10.1016/j.physletb.2019.01.045](https://doi.org/10.1016/j.physletb.2019.01.045). WOS:000460118200058.
- Lima, T.A.L., Wahl, U., Costa, A., Augustyns, V., Edmonds, K.W., Gallagher, B.L., Campion, R.P., Araújo, J.P., Correia, J.G., da Silva, M.R., Temst, K., Vantomme, A., & Pereira, L.M.C. (2019). Thermal stability of interstitial and substitutional Mn in ferromagnetic (Ga,Mn)As. *Physical Review B*, 100(14), 144409. [doi:10.1103/PhysRevB.100.144409](https://doi.org/10.1103/PhysRevB.100.144409). WOS:000489036900002.
- Lopes, G., da Gama, V., Belo, D., Simão, D., Santos, I.C., Almeida, M., & Rabaça, S. (2019). A 4-cyanobenzene-ethylenedithio-TTF electron donor and its (1:1) triiodide radical cation salt; isomer effects in C-N center dot center dot center dot H-C interactions. *Crystengcomm*, 21(4), 637-647. [doi:10.1039/c8ce01967c](https://doi.org/10.1039/c8ce01967c). WOS:000457315000005.

- Lopes, G., Gama, V., Simão, D., Santos, I.C., Lopes, E.B., Pereira, L.C.J., Almeida, M., & Rabaça, S. (2019). Structural relations in (1:1) and (2:1) cyanobenzene-ethylenedithio-TTF radical salts; the role of C≡N...H interactions. *CrystEngComm*, 21(48), 7489-7497. [doi:10.1039/c9ce01214a](https://doi.org/10.1039/c9ce01214a). WOS:000507599200010.
- Lopes, G., Gonçalves, A.C., da Gama, V., Simão, D., Santos, I.C., Pereira, L.C.J., Almeida, M., & Rabaça, S. (2019). Radical Cation Salts of Cyanobenzene-Ethylenedithio-TTF Electron Donors with Halide (Cu and Hg) Binuclear Anions. *European Journal of Inorganic Chemistry* (14), 1875-1883. [doi:10.1002/ejic.201900146](https://doi.org/10.1002/ejic.201900146). WOS:000465098700004.
- Ludwig, B.S., Correia, J.D.G., & Kuehn, F.E. (2019). Ferrocene derivatives as anti-infective agents. *Coordination Chemistry Reviews*, 396, 22-48. [doi:10.1016/j.ccr.2019.06.004](https://doi.org/10.1016/j.ccr.2019.06.004). WOS:000475993800002.
- Machado, J.F., Silva, R.D., Melo, R., & Correia, J.D.G. (2019). Less Exploited GPCRs in Precision Medicine: Targets for Molecular Imaging and Theranostics. *Molecules*, 24(1), 49 (29p.). [doi:10.3390/molecules24010049](https://doi.org/10.3390/molecules24010049). WOS:000457150200049.
- Madruga, M.J., Miró, C., Reis, M., & Silva, L. (2019). Radiation exposure from natural radionuclides in Building materials. *Radiation Protection Dosimetry*, 185(1), 57-65. [doi:10.1093/rpd/ncy256](https://doi.org/10.1093/rpd/ncy256). WOS:000508251200008.
- Madruga, M.J., Prudêncio, M.I., Corisco, J.A., Mihalik, J., Marques, R., Santos, M., Reis, M., Paiva, I., & Dias, M.I. (2019) Distribution of Natural Radionuclides, Rare Earth Elements, Metals and Metalloids in a Phosphogypsum Stockpile. *International Journal Waste Resources*, 9 (1), 363 (8p.). [doi:10.35248/2252-5211.19.9.363](https://doi.org/10.35248/2252-5211.19.9.363).
- Madureira, J., Severino, A., Cojocar, M., Garofalide, S., Santos, P.M.P., Carolino, M.M., Margaça, F.M.A., & Verde, S.C. (2019). E-beam treatment to guarantee the safety and quality of cherry tomatoes. *Innovative Food Science & Emerging Technologies*, 55, 57-65. [doi:10.1016/j.ifset.2019.05.013](https://doi.org/10.1016/j.ifset.2019.05.013). WOS:000473841500007.
- Magalhães, P.R., Machuqueiro, M., Almeida, J.G., Melo, A., Cordeiro, M., Cabo-Verde, S., Gumus, Z.H., Moreira, I.S., Correia, J.D.G., & Melo, R. (2019). Dynamical Rearrangement of Human Epidermal Growth Factor Receptor 2 upon Antibody Binding: Effects on the Dimerization. *Biomolecules*, 9 (11), 706. [doi:10.3390/biom9110706](https://doi.org/10.3390/biom9110706). WOS:000502267900067.
- Malta, J.F., Henriques, M.S.C., Paixão, J.A., & Gonçalves, A.P. (2019). Synthesis and magnetic studies of nanocrystalline Cu₂OSeO₃, a chiral topological magnet. *Journal of Magnetism and Magnetic Materials*, 474, 122-126. [doi:10.1016/j.jmmm.2018.10.120](https://doi.org/10.1016/j.jmmm.2018.10.120). WOS:000459494600019.
- Marques, A.C., Miglietta, D., Gaspar, G., Baptista, A.C., Gaspar, A., Perdigão, P., Soares, I., Bianchi, C., Sousa, D., Faustino, B.M.M., Amaral, V.S., Santos, T., Gonçalves, A.P., da

- Silva, R.C., Giorgis, F., & Ferreira, I. (2019). Synthesis of thermoelectric magnesium-silicide pastes for 3D printing, electrospinning and low-pressure spray. *Materials for Renewable and Sustainable Energy*, 8(4), 21 (10p). [doi:10.1007/s40243-019-0159-7](https://doi.org/10.1007/s40243-019-0159-7). WOS:000489301400001.
- Marques, J.M. & Carreira, P.M. (2019). Geosciences in the assessment of thermal and mineral groundwater systems in N-Portugal: a review. *Sustainable Water Resources Management*, 5(4), 1511-1523. [doi:10.1007/s40899-017-0190-8](https://doi.org/10.1007/s40899-017-0190-8). WOS:000494686800011.
 - Marques, J.M., Carreira, P.M., Aires-Barros, L.A., Santos, F.A.M., da Silva, M.A., & Represas, P. (2019). Assessment of Chaves Low-Temperature CO₂-Rich Geothermal System (N-Portugal) Using an Interdisciplinary Geosciences Approach. *Geofluids*, Article ID 1379093, (24 p.). [doi:10.1155/2019/1379093](https://doi.org/10.1155/2019/1379093). WOS:000460879500001.
 - Marques, J.M., Carreira, P.M., Neves, O., Marques, J.E., & Teixeira, J. (2019). Revision of the hydrogeological conceptual models of two Portuguese thermomineral water systems: similarities and differences. *Sustainable Water Resources Management*, 5(1), 117-133. [doi:10.1007/s40899-018-0218-8](https://doi.org/10.1007/s40899-018-0218-8). WOS:000461049400010.
 - Marques, J.M., Matos, C., Carreira, P.M., & Neves, M.O. (2019). Isotopes and geochemistry to assess shallow/thermal groundwater interaction in a karst/fissured-porous environment (Portugal): a review and reinterpretation. *Sustainable Water Resources Management*, 5(4), 1525-1536. [doi:10.1007/s40899-017-0207-3](https://doi.org/10.1007/s40899-017-0207-3). WOS:000494686800012.
 - Marques, R., Prudêncio, M.I., Abreu, M.M., Russo, D., Marques, J.G., & Rocha, F. (2019). Chemical characterization of vines grown in incipient volcanic soils of Fogo Island (Cape Verde). *Environmental Monitoring and Assessment*, 191(3). [doi:10.1007/s10661-019-7267-9](https://doi.org/10.1007/s10661-019-7267-9). WOS:000457840100002.
 - Marques, R., Waerenborgh, J.C., Pereira, L.C.J., Vieira, B.J.C., Prudêncio, M.I., Ruiz, F., Abad, M., Izquierdo, T., & Rocha, F. (2019). Development of a buried paleosol on silica-undersaturated mafic lava (Fogo Island, Cape Verde): An Fe speciation study using Mössbauer spectroscopy and magnetization. *Catena*, 182, 104153. [doi:10.1016/j.catena.2019.104153](https://doi.org/10.1016/j.catena.2019.104153).
 - Marques, R., Waerenborgh, J.C., Pereira, L.C.J., Vieira, B.J.C., Prudêncio, M.I., Ruiz, F., Abad, M., Izquierdo, T., & Rocha, F. (2019). Development of a buried paleosol on silica-undersaturated mafic lava (Fogo Island, Cape Verde): An Fe speciation study using Mössbauer spectroscopy and magnetization. *Catena*, 182, 104153. [doi:10.1016/j.catena.2019.104153](https://doi.org/10.1016/j.catena.2019.104153). WOS:000482493700053.
 - Mastromarco, M., et al. & n_TOF Collaboration (2019). Cross section measurements of ¹⁵⁵⁻¹⁵⁷Gd (n, γ), induced by thermal and epithermal neutrons. *European Physical Journal A*, 55 (1) 9 (20 p.). [doi:10.1140/epja/i2019-12692-7](https://doi.org/10.1140/epja/i2019-12692-7). WOS:000456675600003. Erratum: *Eur. Phys. J. A* (2019) 55: 45. [doi: 10.1140/epja/i2019-12724-4](https://doi.org/10.1140/epja/i2019-12724-4). WOS:000462672600003.

- Matos, C.P., Addis, Y., Nunes, P., Barroso, S., Alho, I., Martins, M., Matos, A.P.A., Marques, F., Cavaco, I., Pessoa, J.C., & Correia, I. (2019). Exploring the cytotoxic activity of new phenanthroline salicylaldimine Zn(II) complexes. *Journal of Inorganic Biochemistry*, 198, 110727-110727. [doi:10.1016/j.jinorgbio.2019.110727](https://doi.org/10.1016/j.jinorgbio.2019.110727). WOS:000476962700007.
- Matos, J.C., Gonçalves, M.C., Pereira, L.C.J., Vieira, B.J.C., & Waerenborgh, J.C. (2019). SPIONs Prepared in Air through Improved Synthesis Methodology: the Influence of gamma-Fe₂O₃/Fe₃O₄ Ratio and Coating Composition on Magnetic Properties. *Nanomaterials*, 9(7), 943 (17 p.). [doi:10.3390/nano9070943](https://doi.org/10.3390/nano9070943). WOS:000478992600031.
- Mecca, A., Cravo, E., Deltuva, A., Crespo, R., Cowley, A. A., Arriaga, A., Wiringa, R.B., & Noro, T. (2019). Interplay of dynamical and structure effects in the observables for ¹²C (p, 2p) near 400 MeV with polarized and unpolarized beams. *Physics Letters B*, 798, 134989. [doi:10.1016/j.physletb.2019.134989](https://doi.org/10.1016/j.physletb.2019.134989). WOS:000494939000079.
- Monteiro Gil, O., et al. (2019). A survey on emergency thyroid monitoring strategies and capacities in Europe and comparison with international recommendations. *Radiation Measurements*, 128, 106086. [doi:10.1016/j.radmeas.2019.03.004](https://doi.org/10.1016/j.radmeas.2019.03.004). WOS:000497891200014.
- Monteiro, B., Bandeira, N.A.G., Lourenço, C., Lucena, A.F., Carretas, J.M., Gibson, J.K., & Marçalo, J. (2019). Chemical evidence of the stability of praseodymium(v) in gas-phase oxide nitrate complexes. *Chemical Communications*, 55(94), 14139-14142. [doi:10.1039/c9cc08006f](https://doi.org/10.1039/c9cc08006f). WOS:000508172800007.
- Moreira, T., Francisco, R., Comsa, E., Duban-Deweere, S., Labas, V., Teixeira-Gomes, A.P., Combes-Soia, L., Marques, F., Matos, A., Favrelle, A., Rousseau, C., Zinck, P., Falson, P., Garcia, M.H., Preto, A., & Valente, A. (2019). Polymer "ruthenium-cyclopentadienyl" conjugates - New emerging anti-cancer drugs. *European Journal of Medicinal Chemistry*, 168, 373-384. [doi:10.1016/j.ejmech.2019.02.061](https://doi.org/10.1016/j.ejmech.2019.02.061). WOS:000463120300028.
- Moreno, J., Fatela, F., Leorri, E., Moreno, F., Gonçalves, M.A., Gomez-Navarro, J.J., Araújo, M.F., Freitas, M.C., Trigo, R.M., & Blake, W.H. (2019). Foraminiferal evidence of major environmental changes driven by the sun-climate coupling in the western Portuguese coast (14th century to present). *Estuarine Coastal and Shelf Science*, 218, 106-118. [doi:10.1016/j.ecss.2018.11.030](https://doi.org/10.1016/j.ecss.2018.11.030). WOS:000459519700011.
- Nurchi, V.M., Cappai, R., Chand, K., Chaves, S., Gano, L., Crisponi, G., Peana, M., Zoroddu, M.A., & Santos, M.A. (2019). New strong extrafunctionalizable tris(3,4-HP) and bis(3,4-HP) metal sequestering agents: synthesis, solution and in vivo metal chelation. *Dalton Transactions*, 48(43), 16167-16183. [doi:10.1039/c9dt02905b](https://doi.org/10.1039/c9dt02905b). WOS:000496185000036.
- Nurchi, V.M., Jaraquemada-Pelaez, M.D., Crisponi, G., Lachowicz, J.I., Cappai, R., Gano, L., Santos, M.A., Melchior, A., Tolazzi, M., Peana, M., Medici, S., & Zoroddu, M.A. (2019). A new tripodal kojic acid derivative for iron sequestration: Synthesis, protonation, complex formation studies with Fe³⁺, Al³⁺, Cu²⁺ and Zn²⁺, and in vivo bioassays. *Journal*

of *Inorganic Biochemistry*, 193, 152-165. [doi:10.1016/j.jinorgbio.2019.01.012](https://doi.org/10.1016/j.jinorgbio.2019.01.012). WOS:000462416600018.

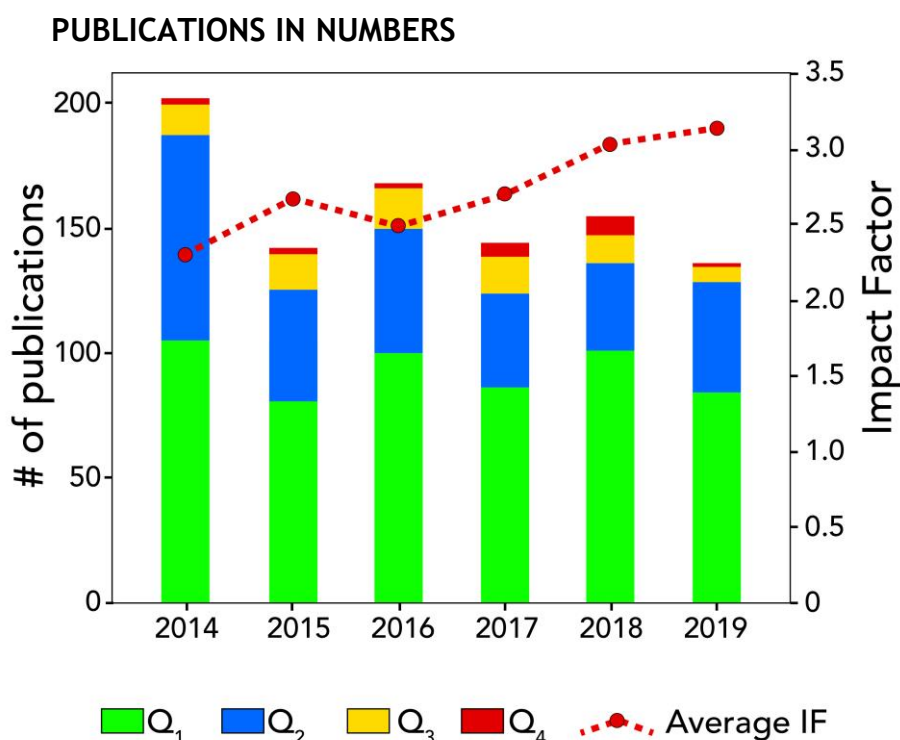
- Oliveira, M.C., & Correia, J.D.G. (2019). Biomedical applications of radioiodinated peptides. *European Journal of Medicinal Chemistry*, 179, 56-77. [doi:10.1016/j.ejmech.2019.06.014](https://doi.org/10.1016/j.ejmech.2019.06.014). WOS:000486133100005.
- Oliveira, S., Gonçalves, A.C., Oliveira, G., Gunther, D., Rohwer, A., Gama, V., Lopes, E.B., Santos, I.C., Rabaça, S., Almeida, M., & Dressel, M. (2019). Double Layer Conducting Salts: (CNB-EDT-TTF)₄X, X= ClO₄⁻, ReO₄⁻, and SbF₆⁻; Electrical Transport and Infrared Properties. *Crystals*, 9(12), 608 (11 p.). [doi:10.3390/cryst9120608](https://doi.org/10.3390/cryst9120608). WOS:000506676000003.
- Ouhamdouch, S., Bahir, M., Ouazar, D., Carreira, P.M., & Zouari, K. (2019). Evaluation of climate change impact on groundwater from semi-arid environment (Essaouira Basin, Morocco) using integrated approaches. *Environmental Earth Sciences*, 78(15), 449 (14p.). [doi:10.1007/s12665-019-8470-2](https://doi.org/10.1007/s12665-019-8470-2). WOS:000476489300018.
- Paiva, I., Marques, R., Santos, M., Reis, M., Prudêncio, M.I., Waerenborgh, J.C., Dias, M.I., Russo, D., Cardoso, G., Vieira, B.J.C., Carvalho, E., Rosa, C., Lobarinhas, D., Diamantino, C., & Pinto, R. (2019). Naturally occurring radioactive material and risk assessment of tailings of polymetallic and Ra/U mines from legacy sites. *Chemosphere*, 223, 171-179. [doi:10.1016/j.chemosphere.2019.02.057](https://doi.org/10.1016/j.chemosphere.2019.02.057). WOS:000465054600020.
- Palma, E., Botelho, H.M., Morais, G.R., Rodrigues, I., Santos, I.C., Campello, M.P.C., Raposo, P., Belchior, A., Gomes, S.S., Araújo, M.F., Correia, I., Ribeiro, N., Gama, S., Mendes, F., & Paulo, A. (2019). Unravelling the antitumoral potential of novel bis(thiosemicarbazonato) Zn(II) complexes: structural and cellular studies. *Journal of Biological Inorganic Chemistry*, 24(1), 71-89. [doi:10.1007/s00775-018-1629-6](https://doi.org/10.1007/s00775-018-1629-6). WOS:000459431600008.
- Pereira, D.R., Diaz-Guerra, C., Peres, M., Magalhães, S., Correia, J.G., Marques, J.G., Silva, A.G., Alves, E., & Lorenz, K. (2019). Engineering strain and conductivity of MoO₃ by ion implantation. *Acta Materialia*, 169, 15-27. [doi:10.1016/j.actamat.2019.02.029](https://doi.org/10.1016/j.actamat.2019.02.029). WOS:000465365300003.
- Pereira, J.S., Pereira, M.F., Rangel, S., Caldeira, M., Carvalhal, G., Santos, L.M., Cardoso, J.V., & Alves, J.G. (2019). Type testing of LiF:Mg,Cu,P (TLD-100H) whole-body dosimeters for the assessment of H-p(10) and H-p(0.07). *Radiation Protection Dosimetry*, 184(2), 216-223. [doi:10.1093/rpd/ncy202](https://doi.org/10.1093/rpd/ncy202). WOS:000493056500012.
- Pereira, S., Pereira, M. F., Rangel, S., Caldeira, M., Carvalhal, G., Santos, L. M., Cardoso, L. M., Alves, L. G. Type testing of LiF: Mg,Cu,P (TLD-100H) whole body dosimeters for the assessment of H_p(10) and H_p(0.07). *Radiat Prot Dosim*, 184 (2), 216-223 (2019) doi: 10.1093/rpd/ncy202

- Peres, M., Fernandes, A.J.S., Oliveira, F.J., Alves, L.C., Alves, E., Monteiro, T.S., Cardoso, S., Alonso-Orts, M., Nogales, E., Mendez, B., Villora, E.G., Shimamura, K., & Lorenz, K. (2019). Micro-Opto-Electro-Mechanical Device Based on Flexible β -Ga₂O₃ Micro-Lamellas. *ECS Journal of Solid State Science and Technology*, 8(7), Q3235-Q3241. [doi:10.1149/2.0441907jss](https://doi.org/10.1149/2.0441907jss). WOS:000472797800001.
- Piersa, M., et al. & ISD Collaboration (2019). beta decay of ¹³³In: gamma emission from neutron-unbound states in ¹³³Sn. *Physical Review C*, 99(2), 024304. [doi:10.1103/PhysRevC.99.024304](https://doi.org/10.1103/PhysRevC.99.024304). WOS:000458133300001.
- Pimenta, A.I., Margaça, F.M.A., & Cabo Verde, S. (2019). Virucidal activity of gamma radiation on strawberries and raspberries. *International journal of food microbiology*, 304, 89-96. [doi:10.1016/j.ijfoodmicro.2019.05.011](https://doi.org/10.1016/j.ijfoodmicro.2019.05.011). WOS:000474321400010.
- Pinela, J., Morales, P., Cabo-Verde, S., António, A.L., Carvalho, A.M., Oliveira, M., Câmara, M., & Ferreira, I. (2019). Stability of total folates/vitamin B-9 in irradiated watercress and buckler sorrel during refrigerated storage. *Food Chemistry*, 274, 686-690. [doi:10.1016/j.foodchem.2018.09.042](https://doi.org/10.1016/j.foodchem.2018.09.042). WOS:000448141800088
- Pino-Cuevas, A., Raposinho, P.D., Fernandes, C., Paulo, A., Abram, U., Carballo, R., & Vazquez-Lopez, E.M. (2019). Thiosemicarbazone complexes with affinity for amyloid- β fibers: synthesis, characterization and biological studies. *Future Medicinal Chemistry*, 11(19), 2527-2546. [doi:10.4155/fmc-2019-0013](https://doi.org/10.4155/fmc-2019-0013). WOS:000498837700005.
- Pinto, A.L., Parola, A.J., Leal, J.P., Coutinho, I.B., & Pereira, C.C.L. (2019). Dye-sensitized solar cells using fluorone-based ionic liquids with improved cell efficiency. *Sustainable Energy & Fuels*, 3(12), 3510-3517. [doi:10.1039/c9se00783k](https://doi.org/10.1039/c9se00783k). WOS:000498612600026.
- Pinto, A.M.C., Palomar, T., Alves, L.C., da Silva, S.H.M., Monteiro, R.C., Macedo, M.F., & Vilarigues, M.G. (2019). Fungal biodeterioration of stained-glass windows in monuments from Belém do Pará (Brazil). *International Biodeterioration & Biodegradation*, 138, 106-113. [doi:10.1016/j.ibiod.2019.01.008](https://doi.org/10.1016/j.ibiod.2019.01.008). WOS:000460717200015.
- Piteau, P., Delaune, X., Borsoi, L., & Antunes, J. (2019). Experimental identification of the fluid-elastic coupling forces on a flexible tube within a rigid square bundle subjected to single-phase cross-flow. *Journal of Fluids and Structures*, 86, 156-169. [doi:10.1016/j.jfluidstructs.2019.02.001](https://doi.org/10.1016/j.jfluidstructs.2019.02.001). WOS:000466254900009.
- Portela, P.J.C., Martins, J.M.M., Soares, A.M.M., Ramos-Pereira, A., Araujo-Gomes, J., & Torres, A. (2019). Age Modelling of Sedimentary Sequences using a Bayesian Approach - The Bensafrim Estuary Sedimentary Infilling Sequence as a Case Study. *Finisterra-Revista Portuguesa de Geografia*, 54 (112), 113-130. [doi:10.18055/Finis16084](https://doi.org/10.18055/Finis16084). WOS:000503870900006.
- Ribeiro, J.M., Correia, F.C., Salvador, P.B., Rebouta, L., Alves, L.C., Alves, E., Barradas, N.P., Mendes, A., & Tavares, C.J. (2019). Compositional analysis by RBS, XPS and EDX of

- ZnO:Al,Bi and ZnO:Ga,Bi thin films deposited by d.c. magnetron sputtering. *Vacuum*, 161, 268-275. [doi:10.1016/j.vacuum.2018.12.038](https://doi.org/10.1016/j.vacuum.2018.12.038). WOS:000458591100036.
- Rivas, F., Medeiros, A., Comini, M., Suescun, L., Arce, E.R., Martins, M., Pinheiro, T., Marques, F., & Gambino, D. (2019). Pt-Fe ferrocenyl compounds with hydroxyquinoline ligands show selective cytotoxicity on highly proliferative cells. *Journal of Inorganic Biochemistry*, 199, 110799. [doi:10.1016/j.jinorgbio.2019.110779](https://doi.org/10.1016/j.jinorgbio.2019.110779). WOS:000488146900018.
 - Rodrigues, A.L., Dias, M.I., Rocha, F., Prudêncio, M.I., Marques, R., Russo, D., & Cardoso, G. (2019). Palaeoenvironmental significance and pathways of calcrete development investigated with nuclear and related methods. *Journal of Radioanalytical and Nuclear Chemistry*, 321(2), 541-556. [doi:10.1007/s10967-019-06591-w](https://doi.org/10.1007/s10967-019-06591-w). WOS:000476615300019.
 - Rodrigues, A.L., Dias, M.I., Valera, A.C., Rocha, F., Prudêncio, M. I., Marques, R., Cardoso, G., & Russo, D. (2019). Geochemistry, luminescence and innovative dose rate determination of a Chalcolithic calcite-rich negative feature. *Journal of Archaeological Science-Reports*, 26, 101887. [doi:10.1016/j.jasrep.2019.101887](https://doi.org/10.1016/j.jasrep.2019.101887). WOS:000498890000039.
 - Rosário, C.M.M., Thoner, B., Schönhals, A., Menzel, S., Meledin, A., Barradas, N.P., Alves, E., Mayer, J., Wuttig, M., Waser, R., Sobolev, N.A., & Wouters, D.J. (2019). Metallic filamentary conduction in valence change-based resistive switching devices: the case of TaO_x thin film with x ~ 1. *Nanoscale*, 11(36), 16978-16990. [doi:10.1039/c9nr05285b](https://doi.org/10.1039/c9nr05285b). WOS:000496763600029.
 - Sabri, K., Marrero-Díaz, R., Ntarmouchant, A., dos Santos, T.B., Ribeiro, M.L., Sola, A.R., Jesus, A.P. (2019). Geology and hydrogeochemistry of the thermo-mineral waters of the South Rif Thrust (Northern Morocco). *Geothermics*, 78, 28-49. [doi:10.1016/j.geothermics.2018.11.005](https://doi.org/10.1016/j.geothermics.2018.11.005). WOS:000458467900003.
 - Santos, L.S., Gomes, B.C., Bastos, H.N., Gil, O.M., Azevedo, A.P., Ferreira, T.C., Limbert, E., Silva, S.N., & Rueff, J. (2019). Thyroid Cancer: The Quest for Genetic Susceptibility Involving DNA Repair Genes. *Genes*, 10(8), 586 (31p.). [doi:10.3390/genes10080586](https://doi.org/10.3390/genes10080586). WOS:000483744500025.
 - Santos, T., Pereira, P., Campello, M.P.C., Paulo, A., Queiroz, J. A., Cabrita, E., & Cruz, C. (2019). RNA G-quadruplex as supramolecular carrier for cancer-selective delivery. *European Journal of Pharmaceutics and Biopharmaceutics*, 142, 473-479. [doi:10.1016/j.ejpb.2019.07.017](https://doi.org/10.1016/j.ejpb.2019.07.017). WOS:000488654000048.
 - Sethurajan, M., van Hullebusch, E.D., Fontana, D., Akcil, A., Deveci, H., Batinic, B., Leal, J.P., Gasche, T.A., Kucuker, M.A., Kuchta, K., Neto, I.F.F., Soares, H., & Chmielarz, A. (2019). Recent advances on hydrometallurgical recovery of critical and precious elements from end of life electronic wastes-a review. *Critical Reviews in Environmental Science and Technology*, 49(3), 212-275. [doi:10.1080/10643389.2018.1540760](https://doi.org/10.1080/10643389.2018.1540760). WOS:000463113700002.

- Silva, R.A.L., Santos, I.C., Gama, V., Lopes, E.B., Auban-Senzier, P., Almeida, M., & Belo, D. (2019). Tetrathiafulvalene and Tetramethyltetraselenafulvalene Salts with $M(dcdmp)_2$ Anions ($M = Au, Cu, \text{ and } Ni$): High Conductivity and Unusual Stoichiometries. *Crystal Growth & Design*, 19(11), 6493-6502. [doi:10.1021/acs.cgd.9b00958](https://doi.org/10.1021/acs.cgd.9b00958). WOS:000495768200057.
- Steiner, S., Rogl, G., Flandorfer, H., Noel, H., Gonçalves, A.P., Giester, G., & Rogl, P.F. (2019). The system thorium-palladium-boron: A DFT study on the stability and properties of $Th_2Pd_{15}B_5$. *Journal of Alloys and Compounds*, 811, 151578. [doi:10.1016/j.jallcom.2019.07.290](https://doi.org/10.1016/j.jallcom.2019.07.290). WOS:000487657000099.
- Tuccori, N., Pinheiro, T., Pena, T., Alves, L.C., Botelho, M. J., Raimundo, J., & Vale, C. (2019). Modelling the uptake of suspended materials and salts in nearshore waters by plastics using nuclear microscopy and depth profiling analytical tools. *Nuclear Instruments & Methods in Physics Research B*, 451, 127-134. [doi:10.1016/j.nimb.2019.05.036](https://doi.org/10.1016/j.nimb.2019.05.036). WOS:000472984300024.
- Vaccari, M., Vinti, G., Cesaro, A., Belgiorio, V., Salhofer, S., Dias, M.I., & Jandric, A. (2019). WEEE Treatment in developing countries: environmental pollution and health consequences-an overview. *International Journal of Environmental Research and Public Health*, 16(9), 1595 (21 p.). [doi:10.3390/ijerph16091595](https://doi.org/10.3390/ijerph16091595). WOS:000469517300120.
- Valério, P., Soares, J., Araújo, M.F., Alves, L.C., & da Silva, C.T. (2019). The Composition of the São Brás Copper Hoard in Relation to the Bell Beaker Metallurgy in the South-western Iberian Peninsula. *Archaeometry*, 61(2), 392-405. [doi:10.1111/arcms.12422](https://doi.org/10.1111/arcms.12422). WOS:000461903500010.
- Varatojo, A., Lopes, G., da Gama, V., Oliveira, G., Santos, I. C., Lopes, E. B., Simão, D., Almeida, M., & Rabaça, S. (2019). Bromide and Tribromide 4-Cyanobenzene-Ethylenedithio- Tetrathiafulvalene Radical Salts by Chemical and Electrochemical Routes. *Crystal Growth & Design*, 19(10), 5768-5775. [doi:10.1021/acs.cgd.9b00790](https://doi.org/10.1021/acs.cgd.9b00790). WOS:000489001700037.
- Verlinde, M., Kraemer, S., Moens, J., Chrysalidis, K., Correia, J.G., Cottenier, S., De Witte, H., Fedorov, V., Fedosseev, V.N., Ferrer, R., Fraile, M., Geldhof, S., Granados, C.A., Laatiaoui, M., Lima, T. A.L., Lin, P.C., Manea, V., Marsh, B.A., Moore, I., Pereira, L.M.C., Raeder, S., Van den Bergh, P., Van Duppen, P., Vantomme, A., Verstraelen, E., Wah, U., & Wilkins, S.G. (2019). Alternative approach to populate and study the ^{229}Th nuclear clock isomer. *Physical Review C*, 100(2), 024315. [doi:10.1103/PhysRevC.100.024315](https://doi.org/10.1103/PhysRevC.100.024315). WOS:000480389500003.
- Viegas, C., Faria, T., Caetano, L. A., Carolino, E., Quintal-Gomes, A., Twaruzek, M., Kosicki, R. & Viegas, S. (2019). Characterization of occupational exposure to Fungal Burden in Portuguese bakeries. *Microorganisms*, 7(8), 234 (14 p.). [doi:10.3390/microorganisms7080234](https://doi.org/10.3390/microorganisms7080234). WOS:000482956300052.

- Viegas, C., Esteves, L., Faria, T., Pombo, A., Caetano, L.A., Quintal-Gomes, A., Twaruzek, M., Kosicki, R., Grajewski, J., & Viegas, S. (2019). Fungal diversity and mycotoxin distribution in echinoderm aquaculture. *Mycotoxin Research*, 35(3), 253-260. [doi:10.1007/s12550-019-00352-0](https://doi.org/10.1007/s12550-019-00352-0). WOS:000474610500004.
- Vilarigues, M., Coutinho, I., Medici, T., Alves, L.C., Gratuze, B., & Machado, A. (2019). From beams to glass: determining compositions to study provenance and production techniques. *Physical Sciences Reviews*, 4(10) 20180019. [doi:10.1515/psr-2018-0019](https://doi.org/10.1515/psr-2018-0019). WOS:000489530300004.



1.5 Publications in International Conference Proceedings

1.5.1 ARTICLES

- Alcaayne, V. et al. (2019). Measurement of the ^{244}Cm and ^{246}Cm Neutron-Induced Cross Sections at the n_{TOF} Facility. In: *Basic Concepts in Nuclear Physics: Theory, Experiments and Applications*, José-Enrique García-Ramos, María V. Andrés, José A. Lay Valera, Antonio M. Moro, Francisco Pérez-Bernal (Eds.). Proceedings of the International Scientific Meeting on Nuclear Physics - Basic concepts in Nuclear Physics: theory, experiments, and applications (RÁBIDA 2018). Springer Proceedings in Physics, 225, pp. 117-122. ISBN 978-3-030-22203-1. doi: 10.1007/978-3-030-22204-8_4.

- Alcaayne, V., et al. (2019). *Measurement of the ^{244}Cm and ^{246}Cm neutron-induced capture cross sections at the n_TOF facility*. In: Proceedings of the 5th International Workshop On Nuclear Data Evaluation for Reactor applications (WONDER-2018), O. Serot & A. Chebboubi (Eds.), Aix-en-Provence, France, October 8-12, 2018. EPJ Web of Conferences, 211, 03008. doi:10.1051/epjconf/201921103008. WOS:000501343100014.
- Babiano-Suarez, V., et al. (2019). *Characterization and First Test of an i-TED Prototype at CERN n_TOF*. In: *Basic Concepts in Nuclear Physics: Theory, Experiments and Applications*, José-Enrique García-Ramos, María V. Andrés, José A. Lay Valera, Antonio M. Moro, Francisco Pérez-Bernal (Eds.). Proceedings of the International Scientific Meeting on Nuclear Physics - Basic concepts in Nuclear Physics: theory, experiments, and applications (RÁBIDA 2018). Springer Proceedings in Physics, 225, pp. 169-173. ISBN 978-3-030-22203-1. doi:10.1007/978-3-030-22204-8_18.
- Bacak, M., et al. (2019). *Preliminary results on the ^{233}U capture cross section and alpha ratio measured at n_TOF (CERN) with the fission tagging technique*. In: Proceedings of the 5th International Workshop On Nuclear Data Evaluation for Reactor applications (WONDER-2018), O. Serot & A. Chebboubi (Eds.), Aix-en-Provence, France, October 8-12, 2018. EPJ Web of Conferences, 211, 03007. doi:10.1051/epjconf/201921103007. WOS:000501343100013.
- Bahir, M., Ouhamdouch, S., Carreira, P.M. & Zouari, K. (2018) *Relationship between hydrochemical variation and the seawater intrusion within coastal alluvial aquifer of Essaouira basin (Morocco) using HFE-Diagram*. In: *Advances in Sustainable and Environmental Hydrology, Hydrogeology, Hydrochemistry and Water Resources*, Proceedings of the 1st Conference of the Arabian Journal of Geosciences (CAJG). Yasmine Hammamet, Tunisia 12-15 November. ISBN: 978-3-030-01571-8; ISBN: 978-3-030-01572-5 (eBook), pp. 195-197. doi:10.1007/978-3-030-01572-5_47.
- Ben Hamouda M.F., Carreira P.M., Marques J.M., Eggenkamp H. (2019). *Multi-isotope Approach to Study the Problem of Salinity in the Coastal Aquifer of Oued Laya, Tunisia*. In: *Advances in Sustainable and Environmental Hydrology, Hydrogeology, Hydrochemistry and Water Resources*, Chaminé H., Barbieri M., Kisi O., Chen M., Merkel B. (eds) Proceedings of the 1st Conference of the Arabian Journal of Geosciences (CAJG-1). Springer, Cham. ISBN 978-3-030-01571-8. doi.org/10.1007/978-3-030-01572-5_49
- Carreira, P.M., Cabo Verde, S., Madureira, J., Ferrão, E., Figueiredo, P., Marques, J.M., Dias, D., Nunes D. (2019). *Riscos associados às atividades no Campo Militar de Santa Margarida. Avaliação de impacto ambiental nas águas subterrâneas através da composição isotópica e deteção de vírus humanos – Resultados preliminares*. Livro de Atas 12º Seminário Sobre Águas Subterrâneas. APRH eds. Universidade de Coimbra, Coimbra, Portugal, 7-8 March, pp.4-7. ISBN: 978-989-8509-22-2.
- Carreira, P.M., Lobo de Pina, A., Mota Gomes, A., Marques, J.M. & Monteiro Santos, F. (2018) *Geochemical and isotopic marks for tracing groundwater salinization: Santiago*

- Island, Republic of Cape Verde, case study. In: Advances in Sustainable and Environmental Hydrology, Hydrogeology, Hydrochemistry and Water Resources, Proceedings of the 1st Conference of the Arabian Journal of Geosciences (CAJG). Yasmine Hammamet, Tunisia 12-15 November. ISBN: 978-3-030-01572-5 (eBook), pp. 161-164. doi:10.1007/978-3-030-01572-5_49.*
- Damone, L., et al. (2019). *$^7\text{Be}(n,p)^7\text{Li}$ Cross Section Measurement for the Cosmological Lithium Problem at the n_{TOF} Facility at CERN.* In: Nuclei in the Cosmos XV, A. Formicola, M. Junker, Gialanella, G. Imbriani (Eds.), Proceedings of the Conference Nuclei in the Cosmos XV. Springer Proceedings in Physics, 219, pp. 25-32. ISBN 978-3-030-13875-2. doi: 10.1007/978-3-030-13876-9_5.
 - Debut, V., Cavalho, M., Soares, F., & Antunes, J. (2019). *Reverse Engineering Techniques for Investigating the Vibro-Acoustics of Historical Bells.* In: *Advances in Acoustics and Vibration II*, Proceedings of the Second International Conference on Acoustics and Vibration (ICAV2018), T. Fakhfakh, C. Karra, S. Bouaziz, F. Chaari, & M. Haddar (Eds.), March 19-21, 2018, Hammamet, Tunisia. pp. 218-226. ISBN: 978-3-319-94615-3. doi:10.1007/978-3-319-94616-0_22. WOS:000456335700022.
 - Dias, M.I., Prudêncio, M.I., Waerenborgh, J.C., Paiva, M.I., Marques, R., Vieira, B.J.C., Russo, D. Lobarinhas, D., Carvalho, E., Rosa, C. (2019). *Evaluation of REE potential in Portuguese legacy sites.* E3S Web of Conferences, 98, 06003. doi:10.1051/e3sconf/20199806003. WOS:000503479200102.
 - Domingos, G., Lopes, E.B., Lenoir, B., Monnier, J., & Gonçalves, A.P. (2019). *The influence of preparation conditions on the electrical transport properties of tetrahedrites.* Proceedings of the 15th European Conference on Thermoelectrics, S. Boldrini, S. Fiameni, S. Battiston, M. Fabrizio, D. Narducci, A. Castellero, C. Fanciulli (eds.), Padua, Italy, September, 25-27th, 2017. Materials Today-Proceedings, 8 (2), pp. 556-561. doi:10.1016/j.matpr.2019.02.053. WOS:000468329300007.
 - Felizardo, M., Reis, M., Fernandes, A.C., Kling, A., Morlat, T., & Marques, J.G. (2019). *Acoustic analysis methods for particle identification with superheated droplet detectors.* E3S Web of Conferences, 88, 01001 (2019). doi:10.1051/e3sconf/20198801001.
 - Lagrange, R., Piteau, P., Delaune, X., & Antunes, J. (2019). *Fluid-elastic coefficients in single phase cross flow: dimensional analysis, direct and indirect experimental methods.* In: *Fluid-Structure Interaction.* Proceedings of the Pressure Vessel & Piping Conference (PVP2019), Vol. 4, San Antonio, USA, July 14-19. 2019. Paper No: PVP2019-93984, V004T04A028; 9 pages. ISBN: 978-0-7918-5895-0. doi:10.1115/PVP2019-93984.
 - Lopes, D., Ferreira, J., Rafael, S., Baptista, P., Faria, M., Canha, N., Almeida, S.M., & Almeida-Silva, M. (2019) *Urban mobility strategies to improve local air quality – Lisbon case study.* Proceedings of the 27th International Conference on Modelling, Monitoring and Management of Air Pollution, 26-28 June 2019, Aveiro, Portugal. WIT Transactions on Ecology and the Environment, 236, pp. 257-266. doi:10.2495/AIR190251.

- Marques, J.M., Eggenkamp, H., Carreira, P.M. & Antunes da Silva, M. (2018). Chlorine geochemical and isotopic ($^{37}\text{Cl}/^{35}\text{Cl}$) signatures of CO_2 -rich mineral waters (N-Portugal), revisited. In: *Advances in Sustainable and Environmental Hydrology, Hydrogeology, Hydrochemistry and Water Resources*, Proceedings of the 1st Conference of the Arabian Journal of Geosciences (CAJG). Yasmine Hammamet, Tunisia 12-15 November. ISBN: 978-3-030-01571-8; ISBN: 978-3-030-01572-5 (eBook), pp. 211-213. [doi:10.1007/978-3-030-01572-5_51](https://doi.org/10.1007/978-3-030-01572-5_51)
- Marques, R., Vieira, B.J.C., Prudêncio, M.I., Waerenborgh, J.C., Dias, M.I., Russo, D., Rocha, F., Silva, T., Ruiz, F., (2019). *Geochemistry and Fe speciation in active volcanic environments – the case of Fogo Island, Cape Verde*. E3S Web of Conferences, 98, 06009. doi:10.1051/e3sconf/20199806009. WOS:000503479200108.
- Massimi, C., et al. (2019). *Data for the s Process from n_TOF*. In: *Nuclei in the Cosmos XV*, A. Formicola, M. Junker, Gialanella, G. Imbriani (Eds.), Proceedings of the Conference Nuclei in the Cosmos XV. Springer Proceedings in Physics, 219, pp. 63-70 (2019). ISBN 978-3-030-13875-2. doi: 10.1007/978-3-030-13876-9_11.
- Moreno-Soto, J., et al. & n_TOF Collaboration (2019). *Study of the photon strength functions and level density in the gamma decay of the n + ^{234}U reaction*. In: Proceedings of the 5th International Workshop On Nuclear Data Evaluation for Reactor applications (WONDER-2018), O. Serot & A. Chebboubi (Eds.), Aix-en-Provence, France, October 8-12, 2018. EPJ Web of Conferences, 211, 02002. doi:10.1051/epjconf/201921102002. WOS:000501343100004.
- Ouhamdouch, S., Bahir, M., Carreira, P.M. & Zouari, K. (2018). *Climate change impact on future flows in semi-arid environment, case of Essaouira basin (Morocco)*. In: *Advances in Sustainable and Environmental Hydrology, Hydrogeology, Hydrochemistry and Water Resources*, Proceedings of the 1st Conference of the Arabian Journal of Geosciences (CAJG). Yasmine Hammamet, Tunisia 12-15 November. ISBN: 978-3-030-01571-8; ISBN: 978-3-030-01572-5 (eBook), pp. 305-308. doi:10.1007/978-3-030-01572-5_72.
- Prudêncio, M.I., Valente, T., Marques, R., Braga, M.A.S., & Pamplona, J. (2019). *Thorium and Uranium distribution in a passive system for mine water treatment*. E3S Web of Conferences, 98, 09023. doi: 10.1051/e3sconf/20199809023. WOS:000503479200192.
- Reis, M., Felizardo, M., Fernandes, A.C., Kling, A., Morlat, T., & Marques, J.G. (2019). *Acoustic instrumentation for a bubble chamber towards dark matter searches*. E3S Web of Conferences, 88, 01002 ((2019). doi: 10.1051/e3sconf/20198801002.
- Rocha, C.S., Marques, J., Carreira, P., Neves, M.O. (2019). *Água mineral de Cabeço de Vide (Portugal): um possível análogo para Marte*. Livro de Atas 12º Seminário Sobre Águas Subterrâneas. APRH eds. Universidade de Coimbra, Coimbra, Portugal, 7-8 March., pp.13-17. ISBN: 978-989-8509-22-2.

- Rodrigues, A.L., Dias, M.I., Prudêncio, M.I., Rocha, F., Muñoz, F.R., Marques, R., González-Regalado, M.L., Russo, D., & Cardoso, G. (2019). *Paleoenvironmental considerations based on geochemistry and mineralogy of a Miocene lacustrine calcrete, southern Portugal*. E3S Web of Conferences, 98, 06012. doi: 10.1051/e3sconf/20199806012. WOS:000503479200111.
- Soares, J., Valério, P., Soares, A.M.M., & Araújo, M.F. (2019). O depósito metálico de Agro Velho - Montalegre e a sua relação com o Sudoeste Peninsular. In: *Do paleolítico ao período romano republicano, Actas do IX Encontro de Arqueologia do Sudoeste Peninsular*, Tróia, Setúbal, 4-6 November 2016. *Setúbal Arqueológica*, 18, 97-104.
- Valério, P., Araújo, M.F., Soares, A.M.M., Soares, J. & Tavares da Silva, C. (2019). Os metais das necrópoles de cistas de Casas Velhas (Melides) e da Provença (Sines). O encontro de antigas e novas tecnologias no Bronze Pleno do Sudoeste. In: *Do paleolítico ao período romano republicano, Actas do IX Encontro de Arqueologia do Sudoeste Peninsular*, Tróia, Setúbal, 4-6 November 2016. *Setúbal Arqueológica*, 18, 89-96.
- Tassan-Got, et al. (2019). *Fission program at n_TOF*. In: Proceedings of the 5th International Workshop On Nuclear Data Evaluation for Reactor applications (WONDER-2018), O. Serot & A. Chebboubi (Eds.), Aix-en-Provence, France, October 8-12, 2018. EPJ Web of Conferences, 211, 03006. doi:10.1051/epjconf/201921103006. WOS:000501343100012.

1.5.2 ABSTRACTS AND EXTENDED ABSTRACTS

- Alves, L.C., Bogdanovic, I., Calligaro, T., Chiari, M., Girshevitz, O., Manh-Dung Ho, Kasztovszky, Z., Krmpotić, M., Mangani, S.M.E., Maróti, B., Mizohata, K., Raisänen, J., Šmit, Ž., Barradas, N.P., Simon, A. (2019) IBA and NAA as complementary non-destructive tools for the authentication of silver coinage, 24th International Conference on Ion Beam Analysis (IBA2019), Antibes, France, 13-18 October.
- Bandiera, M., Vilarigues, M., Veritá, M., Alves, L.C., Saguí, L., (2019) Roman opaque red glass, considerations and improvements on the application of PIXE analyses on archaeological glass, 16th International Conference on Particle Induced X-ray Emission, Caldas da Rainha, Portugal, 24-29 March.
- Barrulas, R.V., Paiva, T.G., Casimiro, M.H., Sequeira, S.O., Macedo, M.F., Corvo, M.C. (2019). Hydrogels for paper artwork preservation. Materials 2019 – XIX Congresso da Sociedade Portuguesa de Materiais e X International Symposium on Materials, Lisboa, Portugal, 14-17 Abril.
- Borges, R., Alves, L.C., Araújo, M.F., Candeias, A., Corregidor, V., Silva, R.J.C. (2019) 15th to 17th century Portuguese silver coins: alloy chronological composition and coeval silver jewellery, Joint ICTP-IAEA Advanced Workshop on Enhancing Accelerator-Based Analytical Techniques for Forensic Science, Trieste, 20-24 May.

- Borges, R., Silva, R.C.J., Alves, L.C., Araújo, M.F., Candeias, A., Corregidor, V. (2019) Portuguese silverware alloy compositions from the 16th century, MATERIAIS 2019, XIX Congresso da Sociedade Portuguesa de Materiais and X International Symposium on Materials, Nova University of Lisbon, Lisbon, Portugal, 14-17 April.
- Carreira, P.M., Capasso, G., Grassa, F., Carvalho, M.R., Marques, J.M., Sousa Oliveira, A., Vieira da Silva, A. (2019). Isotopic and geochemical composition of water and gaseous phases associated to Sandim-CO₂ rich hydromineral system (NE-Portugal). International Symposium on Isotope Hydrology. IAEA, Vienna, Austria, 20-24 May. Abstract/Poster Proceedings IAEA published in 2020.
- Corregidor, V., Cruz, J., Alves, L.C. (2019) Ion beam techniques for cultural heritage studies in Portugal, Joint ICTP-IAEA Advanced Workshop on Enhancing Accelerator-Based Analytical Techniques for Forensic Science, Trieste, 20-24 May.
- Corregidor, V., Dias, R., Catarino, N., Cruz, C., Alves, L.C., Cruz, J., (2019). Reflectance Transformation Imaging to study of cultural heritage objects, A Universidade de Lisboa e o Património. 2º Encontro. Faculdade de Belas-Artes, Lisboa, 27-30 November.
- Correia, V.H., Valério, P., Araújo, M.F., & Alves, R. (2019). Caracterização das actividades metalúrgicas na casa atribuída a Cantaber (Conimbriga, prov. Lusitania, Portugal). XIII Congresso Ibérico de Arqueometria, Universidade do Algarve, Faro, 16-19 October.
- Cruz, J., Corregidor, V., Manso, M., Carvalho, M.L., & Alves, L.C. (2019). μ -XRF and μ -PIXE/ μ -EBS analysis of XV-XVI Portuguese copper coins, MATERIAIS 2019 — XIX Congresso da Sociedade Portuguesa de Materiais and X International Symposium on Materials, Nova University of Lisbon, Lisbon, Portugal, 14 – 17 April 2019.
- Ferreira, H., Lopes, E.B., Ferreira, L.M., Casimiro, M.H., Gonçalves, A.P. (2019). Preparation of sulfide-based materials for energy applications. MATERIAIS 2019 – XIX Congresso da Sociedade Portuguesa de Materiais e X International Symposium on Materials, Nova University of Lisbon, Lisboa, Portugal, 14-17 Abril 2019.
- Ferreira, H.M., Lopes, E.B., Malta, J.F., Ferreira, L.M., Casimiro, M.H., Santos, L., Pereira, M.F.C., Gonçalves, A.P. (2019). Study of NiS₂ as p-type thermoelectric material. 17th European Conference on Thermoelectrics (ECT 2019), Limassol, Chipre, 23-25 September.
- Ferreira, H.M., Lopes, E.B., Malta, J.F., Ferreira, L.M., Casimiro, M.H., Santos, L., Pereira, M.F.C., Gonçalves, A.P. (2019). Study of NiS₂ as p-type thermoelectric material. Chemistry: Shaping the Future (4ECQUL), Lisboa, Portugal, 16-19 Julho 2019.
- Gomes, S.S., Araújo, M.F., Monge Soares, A.M., Correia, V.H. (2019). Lead in Roman hydraulic systems of Lusitania: Manufacturing Processes and Sources. X International Symposium on Materials. Reitoria da Universidade Nova de Lisboa, Lisboa, 16 April.

- Marques, J.M., Etiope, G., Carreira, P.M., Neves, M.O., Rocha, C., Vance, S.D., Christensen, L., Miller, A.Z., Suzuki, S. (2019). Present-day serpentinization and related Na-Cl/Ca-OH hyperalkaline CH₄-rich mineral waters in continental peridotites (Cabeço de Vide – Portugal). New Caledonia Peridotite Amphibious Drilling Workshop. NMontpellier, France, 22-24 January.
- Rodrigues, A.L., Marques, R., Dias, M.I., Prudêncio, M.I., Valera, A.C., Gmélíng, K. (2019) Geochemical fingerprinting the bell beakers from Cardim 6 and Porto Torrão archaeological sites, Ferreira do Alentejo, Portugal. Proceedings of XII Congresso Ibérico de Geoquímica, 22 – 26 September 2019, Universidade de Évora.
- Rodrigues, A.P., Carvalho, F., Silva, R.J.C., Alves, L.C., Correia, V.H., Coroado, J., Ferreira, L.M., Veiga, J.P. (2019). Multi-analytical approach to the characterization of mortars from Roman mosaics: a case-study from Conimbriga, Portugal. World Meeting on Heritage, Sciences and Technologies, Institut de France, Paris, France, 14-15 February.
- Rodrigues, A.P., Carvalho, F., Silva, R.J.C., Correia, V.H., Coroado, J., Ferreira, L.M., Veiga, J.P. (2019). Roman Construction Lime in Conimbriga, Portugal – from production to alteration. MATERIAIS 2019 – XIX Congress of Sociedade Portuguesa de Materiais and X International Symposium on Materials, Nova University of Lisbon, Lisboa, Portugal, 14-19 April.
- Rodrigues, A.P., Casimiro, M.H., Barrulas, R.V., Paiva, T.G., Sequeira, S.O., Corvo, M.C., Correia, V.H., Coroado, J., Ferreira, L.M. (2019). Materiais de base polimérica processados por radiação ionizante para a conservação de mosaicos romanos e de documentos e obras de arte em papel. II Encontro a Universidade de Lisboa e o Património, Lisboa, Portugal, 27-30 Novembro.
- Senna-Martinez, J.C., Valério, P., Casimiro, M.H., Ferreira, L.M., Araújo, M.F., Peixoto, H. (2019). A fundição no Mundo Baiões/Santa Luzia: algumas reflexões partindo de um novo molde metálico para machados de talão unifaciais. XIII Congresso Ibérico de Arqueometria, Universidade do Algarve, Faro, 16-19 October.
- Topete, A., Serro, A.P., Saramago, B., Barradas, N.P., Alves, L.C., Alves, E. (2019). Ion beam studies of therapeutic silicone based hydrogels, 24th International Conference on Ion Beam Analysis (IBA2019), Antibes, France, 13-18 October.
- Valério, P., Araújo, M.F., Soares, A.M.M., Gomes, S.S., Lopes, F., Silva, R.J.C. (2019). A tecnologia metalúrgica antiga no sudoeste da Península Ibérica. II Encontro A Universidade de Lisboa e o Património, Faculdade de Belas-Artes, Lisboa, 27-30 November.
- Valério, P., Silva, R.J.C., Soares, A.M.M., Araújo, M.F., Cardoso, J.L. (2019). Compositional and microstructural characterization of grave goods from Anta do Malhão and Soalheironas: An insight into the diachronic use of arsenical copper from the 3rd to the

2nd millennium BC. X International Symposium on Materials. Reitoria da Universidade Nova de Lisboa, Lisboa, 16 April.

1.6 Other publications

- Gonçalves, A.P., Alves, L.C., Soares, A.M.M. (2019). As contas discoides em pedra: Caracterização química e mineralógica. In: Faustino Carvalho, A. (coord.), Hipogeu campaniforme do Convento do Carmo (Torres Novas). Município de Torres Novas, Torres Novas, 152-156. ISBN:978-972-9151-89-9.
- Olaio, A., Angeja, P., Soares, R., Valério, P. (2019). A ocupação da Idade do Ferro de Cacilhas (Almada, Portugal). Onoba. Revista de Arqueología y Antigüedad, 7, 133-159. doi:10.33776/onoba.v7i0.3398.
- Ramos-Pereira, A., Ramos, C., Danielsen, R., Trindade, J., Soares, A.M.M., Granja, H., Martins, J.M.M., Portela, P.J.C., Torres, A., Araújo-Gomes, J. (2019). Late Holocene Natural and Man Induced Environmental Changes in the Western Iberian Coast: Assessing Forcing Factors. In: Ramos Pereira, A., Leal, A., Bergonse, R., Trindade, J., Reis, E. (eds) Água e Território. Um Tributo a Catarina Ramos. Centro de Estudos Geográficos, IGOT, Universidade de Lisboa, 217-249. ISBN:978-972-636-280-1.
- Soares, A.M.M., Valério, P., Calvo, E., Lourenço, M., Simão, P., Soares, R.M. (2019). O hipogeu 36 da Quinta do Castelo 5 (Salvada, Beja) ou uma revisão da partição por Schubart do Bronze do Sudoeste. Onoba. Revista de Arqueología y Antigüedad, 7, 65-76. doi:10.33776/onoba.v7i0.3438.
- Valério, P., Silva, R.J.C., Araújo, M.F., Soares, A.M.M. (2019). Análise arqueométrica dos artefactos metálicos do "Tesouro" de Baleizão. Revista Portuguesa de Arqueologia, 22, 43-53. ISBN:0874-2782.
- Valério, P., Soares, A.M.M., Araújo, M.F., Silva, R.J.C. (2019). Os metais: caracterização elementar e microestrutural. In A.F. Carvalho (Coord.) Hipogeu Campaniforme do Convento do Carmo (Torres Novas). Município de Torres Novas, Torres Novas, 141-151. ISBN:978-972-9151-89-9.

1.7 Talks in Conferences

1.7.1 INVITED

- Almeida, I.P., Implementation of proton therapy in the Netherlands using a novel patient selection methodology, National Convention on Proton Therapy and Heavy Particles, Lisbon, 11 November 2019. (Invited presentation)
- Alves, J., Fantuzzi, E., Gilvin, P., & Rühm, W., EURADOS Education and Training: a key issue to support dissemination of knowledge and skills in radiation dosimetry, 8th EUTERP

Workshop, Optimizing Radiation Protection Training, Qawra (Malta), Abril 2019. (oral invited)

- Alves, J., Godthelp, B., Lammertsma, A., Vermeersch, F., Gallego, E., Panel – beyond EUTERP – collaborations and outreach, 8th EUTERP Workshop, Optimizing Radiation Protection Training, Qawra (Malta), Abril 2019. (oral invited)
- Alves, J.G., & Meruje, M.M., Considerations on the significance threshold for environmental impairment and the reasonableness of measures of reinstatement, (4th International Workshop on the Indemnification of Damage in the Event of a Nuclear Accident, Lisboa (Portugal), October 2019. (oral invited)
- Alves, J.G., EURAMET Ionizing Radiation projects in Portugal. Generating Impact. EURAMET Workshop Delivering Impact in EMPIR projects, Lisboa (Portugal), September 2019. (oral invited)
- Antunes, J., Planos: from pre-history to post-history, invited keynote talk at the 5th Meeting of EPTA, Castelo Branco, Portugal, 22-24 November, 2019.
- Bosne, E., Wahl, U., Correia, J.G., Lima, T.A.L., Vantomme, A., & Pereira, L.M.C., A generalized fitting tool for analysis of two-dimensional channeling patterns, 24th International Conference on Ion Beam Analysis (IBA), Antibes, France, 13-18 October 2019.
- Crespo, R., Beyond standard mean field approaches to nuclear scattering: many-body degrees of freedom, African Nuclear Physics Conference, South Africa, 1-5 July 2019.
- Crespo, R., Cravo, E., & Deltuva, A., Few-body results for $^{12}\text{C}(p,pN)$ at high energies, 24th European Conference on Few-Body Problems in Physics, University of Surrey, Guildford, United Kingdom, 2-6 September 2019.
- Dias, M.I., Ciências para o património cultural: investigação, inovação e tecnologias, II Encontro A universidade de Lisboa e o Património, Faculdade de Belas Artes, Lisboa, 27 - 30 November 2019.
- Dias, M.I., Prudêncio, M.I., Kasztovszky, Zs., Harsányi, I., Kovács, I., Szőkefalvi-Nagy, Z., Mihaly, J., Káli, G., & Valera, A.C., Non-destructive analyses of Chalcolithic artefacts from Perdigões, Portugal using neutron-based methods IPERION, 3rd users meeting of C2RMF, Palais du Louvre, Paris, França, 12 february 2019.
- Fernandes, C., Desenvolvimento de novos radiofármacos, 1as Jornadas de Imagem Médica e Radioterapia, Escola Superior de Saúde da Cruz Vermelha Portuguesa, Lisbon, Portugal, 6 April 2019.
- Leal, T., Rocha-Rodrigues, P., Moreira, R., Oliveira, G.N.P., Teixeira, R.C.C., Lopes, A.M.L., Araújo, J.P., & Correia, J.G., Local Probing on Ferroelectric $\text{Ca}_{1-x}\text{Ti}_x\text{O}_{3n+1}$ Naturally

Layered Perovskite, DCE 2019 – Doctoral Congress in Engineering, Porto, Portugal, 27-28 June 2019.

- Lima, T.A.L., Wahl, U., Correia, J.G., Bosne, E., Costa, A., Villarreal, R., Moens, J., Lin, P.C., da Silva, M.R., Vantomme, A., & Pereira, L.M.C., Sublattice displacement in multiferroic Rashba semiconductor (Ge, Mn)Te, 24th International Conference on Ion Beam Analysis (IBA), Antibes, France, 13-18 October 2019.
- Marques, J., Current situation for implementation of a proton therapy facility at IST-CTN, National Convention of Particle Therapy, Congresso Nacional ART 2019, Lisboa, 11 November 2019. (invited oral)
- Mendes, F., CF biomarkers, The REAP (regional educational activities platform) Organized by the European Cystic Fibrosis Society, Lisboa (Portugal) 13 September 2019
- Moens, J., Wahl, U., Correia, J.G., Lima, T., Kramer, S., Verlinde, M., Van Duppen, P., Vantomme, A. & Pereira, L.M.C., Lattice location of ²²⁹Th in CaF₂, ISOLDE Workshop and Users Meeting, CERN, Geneva, Switzerland, 5-6 December 2019.
- Moreira, R., Leal, T., Rodrigues, P.R., Oliveira, G.P., Ding, L., Colin, C.V., Darie, C., Goujon, C., Legendre, M., Correia, J.G., Araújo, J.P., & Lopes, A.M.L., Multiferroic SrMnGe₂O₆ and CaMnGe₂O₆ - A Local Probe Study, International Workshop on Advanced Magnetic Oxides (IWAMO), Aveiro, Portugal, 15-17 April 2019.
- Oliveira, G.P., Teixeira, R.C.C., Moreira, R., Correia, J.G., Araújo, J.P. & Lopes, A.M.L., SmCrO₃ Perovskite-like: A New Look On Local Anomalies, International Workshop on Advanced Magnetic Oxides (IWAMO), Aveiro, Portugal, 15-17 April 2019.
- Paulo, A., Multifunctional Gold Nanoparticles for Cancer Theranostics, Conference "New Challenges in Medical Physics", Coimbra (Portugal) 12-13 December 2019.
- Paulo, A., Multifunctional Radioconjugates for Cell-Specific DNA-Targeting with Auger Electron Emitters, 9th International Symposium on Physical, Molecular, Cellular, and Medical Aspects of Auger Processes, Oxford (United Kingdom) 23-24 August 2019.
- Paulo, A., Technetium (I) Organometallic Complexes for Cardiovascular Imaging and Cancer Theranostics", METALS IN THERAPY AND DIAGNOSIS - A MetalBIO Workshop, Lugo (Spain) 3 July 2019.
- Pereira, D.R., Díaz-Guerra, C., Peres, M., Magalhães, S., Correia, J.G., Marques, J.G., Silva, A.G., Alves, E., Lorenz, K., Cardoso, S., & Freitas, P.P., Effects of oxygen ion implantation on the structural and electrical properties of MoO₃ lamellar crystals, Condensed Matter Physics National Conference (CMPNC 2019), Porto, Portugal, 8-10 May, 2019.
- Prudêncio, M.I., Nuclear analytical techniques and neutron imaging in material culture. MATERIAIS 2019 — XIX Congresso da Sociedade Portuguesa de Materiais and X

International Symposium on Materials, Nova University of Lisbon, Lisbon, Portugal, 14-17 April 2019. <http://www.materiais2019.pt/speakers/speakers-invited/>

- Rocha-Rodrigues, P., Santos, S.S.M., Leal, T., Oliveira, G.N.P., Miranda, I.P., Moreira, R., Correia, J.G., Assali, L.V.C., Petrilli, H.M., Araújo, J.P., & Lopes, A.M.L., Local probe studies on the naturally layered Ca_2MnO_4 , DCE 2019 – Doctoral Congress in Engineering, Porto, Portugal, 27-28 June 2019.
- Rodrigues, P.M.R., Miranda, I.P., Santos, S.S.M., Oliveira, G.N.P., Assali, L.V.C., Petrilli, H.M., Correia, J.G., Araújo, J.P., & Lopes, A.M.L., Local properties in $\text{Ca}_3\text{Mn}_2\text{O}_7$: an ab-initio and experimental study, International Workshop on Advanced Magnetic Oxides (IWAMO), Aveiro, Portugal, 15-17 April 2019.
- Rodrigues, P.R., Leal, T., Oliveira, G.P., Moreira, R., Santos, S.S.M., Assali, L.V.C., Petrilli, H.M., Correia, J.G., Lopes, A.M.L., & Araújo, J.P., Perturbed Angular Correlation γ - γ measurements on Ca_2MnO_4 , International Workshop on Advanced Magnetic Oxides (IWAMO), Aveiro, Portugal, 15-17 April 2019.
- Rodrigues, P.M.R., Santos, S.S.M., Leal, T., Oliveira, G.N.P., Miranda, I.P., Moreira, R., Assali, L.V.C., Petrilli, H.M., Correia, J.G., Araújo, J.P.E., & Lopes, A.M.L., Hyperfine studies on the structural phase transitions of the naturally layered perovskite Ca_2MnO_4 , ISOLDE Workshop and Users Meeting, CERN, Geneva, Switzerland, 5-6 December 2019.
- Vantomme, A., Wahl, U., Correia, J.G., Villarreal, R., Bourgeois, E., Nesladek, M., & Pereira, L.M.C., Identifying the structure of the SnV defect in diamond - experimental evidence of the split-vacancy configuration, Fall Meeting of the Materials Research Society (MRS), Boston, USA, 1-6 December 2019.
- Vaz, P., Dosimetry, Shielding and Research in a Proton Therapy Facility (selected topics), invited presentation in the "Workshop on New Challenges in Medical Physics", Coimbra, 13 December 2019.
- Vaz, P., Low dose radiation research; An European Perspective, Pedro Vaz, invited presentation in a panel discussion entitled "Effect of Low Levels of Radiation", ANS Winter Meeting, Washington D.C., 17-21 November 2019.
- Wahl, U., Correia, J.G., Villarreal, R., Bourgeois, N., E., Nesladek, M., Vantomme, A. & Pereira, L.M.C., Unambiguous identification of the split-vacancy configuration of the SnV defect in diamond, ISOLDE Workshop and Users Meeting, CERN, Geneva, Switzerland, 5-6 December 2019.

1.7.2 CONTRIBUTED

ORAL

- Almeida, I.P., The role of a medical physicist in a proton therapy center. Annual Workshop of C2TN - 2019, CTN, IST, Bobadela, Portugal, 19 November 2019.
- Almeida, M., Conducting Magnetic Molecular Materials, EC Symposium on the Molecular Approach to Functional Materials, IST, Lisbon, Portugal, 14 October 2019.
- Almeida, S.M. (2019) LIFE Index-Air: desenvolvimento de uma ferramenta para avaliar o impacto de medidas para a melhoria da qualidade do ar, Mobilidade Elétrica para a melhoria da qualidade do ar nas cidades organized by Câmara Municipal de Almada e Agência Municipal de Energia de Almada, Monte da Caparica, Portugal, 20 September
- Almeida, S.M., Blondeau, P., Lage, J., Manteigas, V., Gonçalves, K., Alexandre, J.L., Chacartegui, R., Lizana, J., Becera, J.A., Gamarra, A., Orozco, I.H., Lechon Perez, Y., & Fernandes A., Children exposure to air pollutants in ClimACT schools, European Aerosol Conference (EAC 2019), Gotemburgo, Gothenburg, Sweden, 25-30 August 2019.
- Almeida, S.M., Capacitar comunidades escolares para uma sociedade baixo carbono, Seminário Educação e desafios do futuro: ambiente e desenvolvimento sustentável, organized by Conselho Nacional de Educação e Conselho Nacional do Ambiente e do Desenvolvimento Sustentável, Lisboa, 22 May 2019.
- Almeida, S.M., Faria, T., Martins, V., Canha, N., Diapouli, E., Manousakas, M.I., & Eleftheriadis, K., Sources of children's exposure to particulate matter, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal, 9 - 11 July 2019.
- Almeida, S.M., Faria, T., Martins, V., Canha, N., Diapouli, E., Manousakas, M.I. & Eleftheriadis, K., Exposure to source-related components of particle air pollution, International Congress on Environmental Health (ICEH 2019), Lisbon, Portugal, 25-27 September 2019.
- Almeida, S.M., Faria, T., Martins, V., Canha, N., Diapouli, E., Manousakas, M.I., Eleftheriadis, K., Indoor and outdoor sources of fine particulate matter in 40 Portuguese homes, 27th International Conference on Modelling, Monitoring and Management of Air Pollution — Air Pollution 2019, Aveiro, Portugal, 26-28 June 2019.
- Almeida, S.M., LIFE Index-Air: A Decision Support Tool to Reduce the Exposure to Air Pollutants and Improve the Health of Citizens Living in European Cities, Final Conference of INTERREG MED REMEDIO project "REgenerating mixed-use MED urban

communities congested by traffic through Innovative low carbon mobility sOlutions", Treviso, Italy, 1 – 2 October 2019.

- Almeida, S.M., LIFE Index-Air: desenvolvimento de uma ferramenta para melhorar a saúde da população em cidades europeias, Smart Cities. Smart Health organized by Ordem dos Farmacêuticos, Lisboa, Portugal, 24 September 2019.
- Almeida, S.M., Manousakas, M., Diapouli, E., Kertesz, Z., Samek, L., Galinha, C., Hristova, E., Veleva, B., Radenković, M., Šega, K., Bešlić, I., Vratolis, S., Civici, N., Radić, R., Banu Oztas, N., Turchenko, D.V., Bernatonis, M., Nikolovska, L., Djukanovic, G., Jančić, D., Balan, V., Furman, L., Stegowski, Z., Abdullaev, S., Vukić, Lj., Knežević, J., Stefanovska, A., Cantay, E., Davila, S., Godec, R., Padilla Alvarez, R., Karydas, A., Belis, C.A., & Eleftheriadis, K., Pollution Characterization, Source, Identification, and Health Risks of PM2.5 at Multiple Sites in Europe and Asia, International Congress on Environmental Health (ICEH 2019), Lisboa, Portugal, 25-27 September 2019.
- Almeida, S.M., Manousakas, M., Diapouli, E., Kertesz, Z., Samek, L., Galinha, C., Hristova, E., Veleva, B., Radenković, M., Šega, K., Bešlić, I., Vratolis, S., Civici, N., Radić, R., Banu Oztas, N., Turchenko, D.V., Bernatonis, M., Nikolovska, L., Djukanovic, G., Jančić, D., Balan, V., Furman, L., Stegowski, Z., Abdullaev, S., Vukić, Lj., Knežević, J., Stefanovska, A., Cantay, E., Davila, S., Godec, R., Padilla Alvarez, R., Karydas, A., Belis, C.A., & Eleftheriadis, K., Source Apportionment of Ambient Particulate Matter in 16 European and Asian Urban Areas, European Aerosol Conference (EAC 2019), Gotemburgo, Suécia, 25-30 August 2019.
- Almeida, S.M., Manousakas, M., Diapouli, E., Kertesz, Z., Samek, L., Galinha, C., Hristova, E., Veleva, B., Radenković, M., Šega, K., Bešlić, I., Vratolis, S., Civici, N., Radić, R., Banu Oztas, N., Turchenko, D.V., Bernatonis, M., Nikolovska, L., Djukanovic, G., Jančić, D., Balan, V., Furman, L., Stegowski, Z., Abdullaev, S., Vukić, Lj., Knežević, J., Stefanovska, A., Cantay, E., Davila, S., Godec, R., Padilla Alvarez, R., Karydas, A., Belis, C.A., & Eleftheriadis, K., Ambient Particulate Matter Source Apportionment Using Receptor Modelling in 6 European and Asian Urban Areas, 7th Iberian Meeting on Aerosol Science and Technology, Lisboa, Portugal, 9-11 July 2019.
- Almeida, S.M., O papel das escolas ClimACT na transição para uma sociedade de baixo carbono, Workshop "Transição para Territórios Energeticamente Sustentáveis, organized by Câmara Municipal de Loulé no âmbito do Conselho Local de Acompanhamento da Estratégia Municipal de Adaptação às Alterações Climáticas, Loulé, 15 May 2019.
- Almeida, S.M., T. Faria, V. Martins, N. Canha, E. Diapouli, M.I. Manousakas and K. Eleftheriadis Source Apportionment of Children Exposure to Particulate Matter in Lisbon, European Aerosol Conference (EAC 2019), Gothenburg, Sweden, 25-30 August 2019.
- Almeida, S.M., Think Tank, "Agenda da Terra", Sede nacional do Partido - Socialista, Lisbon, Portugal, 15 July 2019.

- Andrade, E., Reis, M., Santos, M., & Madruga, M.J., Radon and its implications in the daily life of the population, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- António, D., Di Maria, S., Matela, N., Vieira, S., Baptista, M., & Vaz, P., Dose assessment and reconstruction algorithm optimization in simultaneous breast and lung CT imaging, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- Antunes, J., Piteau, P., Delaune, X., & Lagrange, R., Estimation of frequency-dependent fluidelastic coupling forces over untested frequency ranges for performing time-domain analysis, IUTAM Symposium on Fluid-Structure Interaction, Montreal, Canada, August 12-15, 2019.
- Baptista, M., Di Maria, S., Vieira, S., Pereira, J., Pereira, M., & Vaz, P., Organ dose measurements using an adult anthropomorphic phantom and risk estimation of cancer incidence from CBCT exposures, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- Belchior, A., Di Maria, S., Fernandes, C., Vaz, P., Paulo, A., & Raposinho, P., Assessment of the Energy Deposited and Biological Damage Induced by DNA-targeted ^{99m}Tc -complexes, 3rd International Conference on Dosimetry and its Applications, Lisboa, Portugal, 27-31 May 2019.
- Borbinha J., et al., Dosimetric Assessment in Different Tumor Sub-volumes for Targeted Radionuclide Therapy Using ^{67}Ga , ^{99m}Tc , ^{125}I , ^{161}Tb And ^{177}Lu , Nova Biophysica conference, 4-6 September 2019, NOVA Campus de Campolide, Lisbon, Portugal.
- Borbinha, J., Di Maris, S. & Vaz, P., Dosimetric assessment in different tumor sub-volumes with Auger electron-emitting radionuclides: ^{99m}Tc , ^{125}I , ^{161}Tb , and ^{177}Lu , 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- Brito, F.P., Vieira, R., Pacheco, N., Martins, J., Gonçalves, L.M., Gonçalves, A.P., Kyratsi, T., & Stockholm, J., Assessment of a High Power Density Thermoelectric Generator Concept for Industrial Applications, 17th European Conference on Thermoelectrics (ECT2019), Limassol, Cyprus, 23-25 September 2019.
- Cabo Verde, S., Virucidal activity of ionizing radiation, IAEA Technical Meeting Recent Achievement on the Removal of Biohazardous Pollutants by Radiation, Bobadela, Portugal, 8-12 July 2019.
- Canha, N., Lage, J., Belo, J., Picado, M., Macedo, P., Faria, T., Meira Cruz, M., Cabo Verde, S., Viegas, C., Alves, C., & Almeida, S.M., Particulate matter exposure during sleep, 7th Iberian Meeting on Aerosol Science and Technology – RICTA 2019, Lisbon, Portugal, 9-11 July 2019.

- Canha, N., REMEDIO project – innovative solutions for low carbon mobility, Final Event of the MOTIVATE Project "Moving around a Med City", Lisbon, Portugal, 30 October 2019.
- Canha, N., REMEDIO Small Scale Investments and Urban Mobility, Session 3: urban renewal focusing on soft mobility solutions, Final Conference of INTERREG MED REMEDIO project "REgenerating mixed-use MED urban communities congested by traffic through Innovative low carbon mobility sOolutions", Treviso, Italy, 1 – 2 October 2019.
- Casimiro, M.H., Ferreira, L.M., Biodegradable polymer matrices obtained by ionizing radiation for skin scaffolds, 4th AIEA Research Coordination Meeting on Instructive Surfaces and Scaffolds for Tissue Engineering Using Radiation Technology, São Paulo, Brasil, 8-12 April 2019.
- Casimiro, M.H., Leal, J.P., Margaça, F.M.A., Falcão, A.N., Rodrigues, A.P., Cabo Verde, S., Santos, P.M.P., Ferreira, L.M., Current Research on Ionizing Radiation Technologies, IAEA Technical Meeting on Recent Achievements in the Removal of Biohazardous Pollutants by Radiation, CTN/IST, Bobadela, Portugal, 08-12 July 2019.
- Chalvatzaki, E., Chatoutsidou, S.E., Martins, V., Diapouli, E., Almeida, S.M., Eleftheriadis, K., & Lazaridis, M., Personal dose of PM10 for students in primary schools in Lisbon, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal. 9 - 11 July 2019.
- Coelho, R., Lopes, E.B., & Gonçalves, A.P., Thermal stability, oxidation resistance and protective coatings for tetrahedrites, 17th European Conference on Thermoelectrics (ECT2019), Limassol, Cyprus, 23-25 September 2019.
- Coelho, R.C., Lopes, E.B., Symeou, E., Kyratsi, T., & Gonçalves, A.P., Tetrahedrites for thermoelectric applications: challenges and possibilities, 2nd edition of the Iberian Thermoelectric Workshop (ITW2019), Ciudad Real, Spain, September 5-6, 2019.
- Corisco, J., IST Activities at NORM sites in Portugal, Workshop of the European Radioecology ALLIANCE, Topical Roadmap WG NORM, Institute of Resource Ecology, Helmholtz-Zentrum Dresden-Rossendorf, June 18-19, 2019.
- Corisco, J., Nogueira, P., & Madruga, M.J., Radiation dose assessment in plants and mosses growing on a phosphogypsum stockpile in Portugal, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- Correia, C., Martins, V., Cunha-Lopes, I., Faria, T., Diapouli, E., Eleftheriadis, K., & Almeida, S.M., Commuter exposure and inhaled dose of particulate matter in four common modes of transport in Lisbon, International Congress on Environmental Health (ICEH 2019), Lisbon, Portugal, 25-27 September 2019.

- Correia, C., Martins, V., Cunha-Lopes, I., Faria, T., Diapouli, E., Eleftheriadis, K., & Almeida S.M., Exposure and inhaled dose of particulate matter by commuters in Lisbon, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal, 9 - 11 July 2019.
- Coutinho, J.T., Canha, N., Almeida-Silva, M., & Almeida, S.M., Better Ways to Move, Better Places to Live, 20-21 March 2019, Brussels, Belgium
- Cravo Sá, A., Barateiro, A., Bednarz, B., Borges, C., Pereira, J., Baptista, M., Pereira, M., Zarza-Moreno, M., Almeida, P., Vaz, P., Madaleno, T., & Romanets, Y., Monte Carlo Assessment of Out-of-Field Doses in Radiotherapy Treatments of Paediatric Patients, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- Cunha-Lopes, I., Martins, V., Faria, T., Correia, C., & Almeida, S.M., Children's exposure assessment to particulate matter in Lisbon metropolitan área, International Congress on Environmental Health (ICEH 2019), Lisbon, Portugal, 25-27 September 2019.
- Cunha-Lopes, I., Martins, V., Faria, T., Correia, C., & Almeida, S.M., Assessment of children's exposure to sized-fractioned particulate matter and black carbon in Lisbon metropolitan area, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal, 9 - 11 July 2019.
- Debut, V., Antunes, J., & Boussellaa, C., On the correction of dynamic measurements by force transducers, Workshop on Machine Dynamics and Signal Processing, Wroclaw, Poland, 8-10 April, 2019.
- Diapouli, E., Almeida, S.M., Martins, V., Faria, T., Canha, N., Miranda, A., Ferreira, J., Relvas, H., Korhonen, A., Lehtomäki, H., Hänninen, O., Lazaridis, M., Chalvatzaki, E., & Eleftheriadis, K., LIFE Index-Air - development of an integrated exposure - dose management tool for the reduction of particulate matter in air and the protection of public health, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal. 9 - 11 July 2019.
- Diapouli, E., Manousakas, M.I., Almeida, S.M., Martins, V., Faria, T., Vasilatou, V., & Eleftheriadis, K., Chemical characterization of indoor and outdoor PM at residences and schools, in Lisbon, Portugal, European Aerosol Conference (EAC 2019), Gothenburg, Sweden, 25-30 August 2019.
- Dias, M.I., & Prudêncio, M.I., Uma síntese sobre grupos de referência composicionais de produções de ânforas lusitanas, XIII Congresso Ibérico de Arqueometria, Universidade de Faro, 16-18 October 2019.
- Dias, M.I., Prudêncio, M.I., Waerenborgh, J.C., Paiva, M.I., Marques, R., Vieira, B.J.C., Russo, D., Lobarinhas, D., Carvalho, E., & Rosa, C., Evaluation of REE potential in Portuguese legacy mines, 16th International Symposium on Water-Rock Interaction

(WRI-16) and to 13th International Symposium on Applied Isotope Geochemistry (1st IAGC International Conference), Tomsk, Russia, July 21-26, 2019.

- Dias, M.I., Rodrigues, A.L., Kovács, I., Szokefalvi-Nagy, Z., Prudêncio, M.I., Kasztovszky, Z., Maróti, B., Marques, R., Flor, P., & Cardoso, G., Chronological assessment of della Robbia sculptures by using PIXE and Luminescence techniques, 16th International Conference on Particle Induced X-ray Emission (PIXE2019), Caldas da Rainha, Portugal, 24-29 March 2019.
- Dias, M.I., Solving archaeological research problems by prompt gamma activation analyses and complementary techniques, 2nd International Conference on Radioanalytical and Nuclear Chemistry, Budapest, Hungary, 5-10 May 2019.
- Faria, T., Martins, V., Canha, N., Diapouli, E., Manousakas, M., Eleftheriadis, K., & Almeida, S.M., Children integrated exposure to chemical compounds in particulate matter, International Congress on Environmental Health (ICEH 2019). Lisbon, Portugal. 25-27 September 2019.
- Faria, T., Martins, V., Canha, N., Diapouli, E., Manousakas, M., Eleftheriadis, K., & Almeida, S.M., Spatial variability of personal exposure to particles in Lisbon, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal, 9 - 11 July 2019.
- Faria, T., Martins, V., Canha, N., Diapouli, E., Manousakas, M.I., Eleftheriadis, K., & Almeida, S.M., Children exposure and dose assessment to chemical compounds in particulate matter in Lisbon. European Aerosol Conference (EAC 2019), Gothenburg, Sweden, 25-30 August 2019.
- Ferreira, A.C., Nanostructured f-block element bimetallic oxides as catalysts for the conversion of carbon dioxide, CaReCI Project Final Seminar "Sustainable and efficient carbon capture for the cement industry", October 2019.
- Ferreira, H.M., Lopes, E.B., Malta, J.F., Ferreira, L.M., Casimiro, M.H., Santos, L.F., Pereira, M.F.C., & Gonçalves, A.P., Study of NiS₂ as p-type thermoelectric material, 17th European Conference on Thermoelectrics (ECT2019), Limassol, Cyprus, 23-25 September 2019.
- Ferreira, J., Lopes, D., Relvas, H., Faria, T., Martins, V., Diapouli, E., Almeida, S.M., & Miranda, A.I., Modelling population exposure to PM_{2.5} in Lisbon, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal, 9-11 July 2019
- Ferreira, L.M., Araújo, M.F., Casimiro, M.H., Cabo Verde, S., Falcão, A.N., Alves, L.C., Rodrigues, A.P., Adequacy of Inorganic Composition of Radiation-Processed Hybrid Materials for Consolidation of Roman Mosaics, 3rd IAEA Research Coordination Meeting on Developing Radiation Treatment Methodologies and New Resins Formulations for Consolidation and Preservation of Achieved Materials and Cultural Heritage Artifacts, IAEA Headquarters, Vienna, Austria, 7-11 October 2019.

- Ferreira, L.M., Casimiro, M.H., Leal, J.P., Alves, L.C., Margaça, F.M.A., Santos, P.M.P., NanoRad-HIL - Nanostructured Hybrid Materials by Radiation Processing Assisted by Ionic Liquids, 1st AIEA Research Coordination Meeting on Enhancing the Beneficial Effects of Radiation Processing in Nanotechnology, IAEA Headquarters, Vienna, Austria, 18-22 March 2019.
- Ferreira, L.M., Casimiro, M.H., Leal, J.P., Rodrigues, G., Casal, D., Margaça, F.M.A., Research on Radiation Processing of Biomedical Materials at C2TN/IST, IAEA Regional Workshop on the Status, Advances and Applications of Ionizing Radiation on Biomedical Materials - TC Project RER1019, Zagreb, Croatia, 11-14 June 2019.
- Ferreira, L.M., Casimiro, M.H., Leal, J.P., Rodrigues, G., Casal, D., Margaça, F.M.A., Radiation Induced Functionalization of Polymeric Based Biomaterials: from Preparation to in vivo Assays, IAEA Regional Workshop on the Status, Advances and Applications of Ionizing Radiation on Biomedical Materials - TC Project RER1019, Zagreb, Croatia, 11-14 June 2019.
- Ferreira, L.M., Casimiro, M.H., Santos, P.M.P., Leal, J.P., Monteiro, B., Margaça, F.M.A., Falcão, A.N., Radiation Synthesis and Functionalization of Polymeric Based Materials - Content Considerations for a Web-based E-learning Module. IAEA Consultancy Meeting on the Development of an E-learning Module on Material Modification by Radiation. IAEA Headquarter, Vienna, Austria, 26-29 August 2019.
- Ferreira, V.F.C., Oliveira, B.L., Santos, J.D., Correia, J.D.G, Farinha, C. M., & Mendes, F., Targeting of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Protein with a Technetium-99m Imaging Probe, 16th European Cystic Fibrosis Basic Science Conference, Dubrovnik, Croatia, 30 March 2019.
- Frutos-Puerto, S., et al., Emanación de torón de materiales de construcción y riesgos radiológicos asociados, XXII Reunión de la Sociedad Española de Química Analítica (SEQA 2019), Valladolid, Espanha, 17-19 July 2019.
- Gini, M., Diapouli, E., Manousakas, M., Chalvatzaki, E., Lazaridis, M., Martins, V., Faria, T., Almeida, S.M., Hänninen, O., & Eleftheriadis, K., The effect of variability in size distribution metrics of aerosol chemical components on the deposited dose for urban areas in Lisbon, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal, 9 - 11 July 2019.
- Gonçalves, A.P., A new insight of U-Sb (-Fe) system (I), "Kumatori Research Program" Meeting, Kyoto University, Japan, 7 February 2019.
- Gonçalves, A.P., A new insight of U-Sb (-Fe) system (II), 10th Workshop of the Alpha Radiation Laboratory Users, Tohoku University, Sendai, Japan, 15 February 2019.
- Gonçalves, A.P., Lopes, E.B., Stora, T., & Kyratsi, T., Advanced materials for energy and medical applications, Chemistry: Shaping the Future & 2019 Summer School, 4th

Meeting of the CQUL (4ECQUL), Reitoria da Universidade de Lisboa, Portugal, 16-19 July 2019.

- Guerreiro, J.F., Alves V., Abrunhosa, A.J., Paulo, A., Gil O.M., & Mendes, F., New insights on the radiobiological effects of $^{64}\text{CuCl}_2$ - a simple tool for prostate cancer theranostics, NOVA BIOPHYSICA International Congress, Lisboa, Portugal, 4-6 September 2019.
- Henriques, M.S., Santos, I.C., Pereira, L.C.J., Lopes, E.B., Waerenborgh, J.C., Zahurakova, N., Kontul', V., Džubinská, A., Ilkovič, S., Curlik, I., Reiffers, M., Ruzs, J., & Gonçalves, A.P., Peculiarities of the U-Fe-Sb system, 49ièmes Journées des Actinides (JdA 2019), Erice, Italy, 14-18 April.
- Kertesz, Z., Samek, L., Hristova, E., Radenkovic, M., Manousakas, M., Almeida, S.M., Veleva, B., Segal, K., Beslic, I., Eleftheriadis, K., Diapouli, E., Vratolis, S., Civici, N., Radic, R., Oztas, N.B., Turchenko, D.V., Bernatoni, M., Nikolovska, L., Djukanovic, G., Jancic, D., Balan, V., Furman, L., Stegowski, Z., Abdullaev, S., Vukic, L., Knezevic, J., Stefanovska, A., Cantay, E., Davila, S., Godec, R., Baena, A.M.R.Y., Markowicz, A., Alvarez, R.P., & Karydas, A., Elemental composition and sources of PM_{2.5} pollution in 16 European cities in 2014-15, 16th International Conference on Particle Induced X-ray Emission (PIXE2019), Caldas da Rainha, Portugal, 24-29 March 2019.
- Lage, J., Blondeau, P., Manteigas, V., Canha, N., Gonçalves, K., Alexandre, J.L., Chacartegui, R., Lizana, J., Becera, J.A., Gamarra, A., Lechon Perez, Y., Fernandes, A., Almeida, S.M., Air Quality Assessment in Schools from the European Sudoe Region, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisboa, Portugal, 9-11 July 2019.
- Lage, J., Blondeau, P., Manteigas, V., D'Espiney, A., Almeida-Silva, M., Canha, N., Gonçalves, K., Alexandre, J.L., Chacartegui, R., Lizana, J., Becera, J.A., Gamarra, A., Lechon Perez, Y., Fernandes, A., & Almeida, S.M., Indoor air quality in 38 European schools, 27th International Conference on Modelling, Monitoring and Management of Air Pollution — Air Pollution 2019, Aveiro, Portugal, 26-28 June 2019.
- Lage, J., Manteigas, V., Despiney, A., Rato, R., Silva, F., Gonçalves, K., Alexandre, J.L., Chacartegui, R., Lizana, J., António Becera, J., Gamarra, A., Lechon Perez, Y., Fernandes, A., & Almeida, S.M., The role of the schools at the climate changes' fight, International Congress on Environmental Health (ICEH 2019), Lisboa, Portugal, 25-27 September 2019.
- Lehtomäki, H., Korhonen, A., Almeida, S.M., Martins, V., Faria, T., Miranda, A.I., Ferreira, J., Lopes, D., Rafael, S., Diapouli, E., Eleftheriadis, K., & Hänninen, O., Burden of disease attributed to airborne particulate matter in five selected European cities, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal, 9 - 11 July 2019.

- Lopes, D., Ferreira, J., Rafael, S., Baptista, P., Faria, M., Almeida-Silva, M., & Almeida, S.M., Urban mobility strategies to improve local air quality – Lisbon case study, 27th International Conference on Modelling, Monitoring and Management of Air Pollution — Air Pollution 2019, Aveiro, Portugal, 26-28 June 2019.
- Lopes, E.B., Coelho, R., Symeou, E., Kyratsi, T., & Gonçalves, A.P., Selection of Tetrahedrite Compositions for Application on Thermoelectric Modules, 17th European Conference on Thermoelectrics (ECT2019), Limassol, Cyprus, 23-25 September 2019.
- Lopes, E.B., Moço, D., Coelho, R., & Gonçalves, A.P., Thermoelectric Materials for a Sustainable World, Encontro Ciência 2019, Lisboa, Portugal, 8-10 July 2019.
- Madruga, M.J., Gomes, A.R., Abrantes, J., Santos, M., Andrade, E., Mourato, A., Libânio, A., & Reis, M., Internal radiation dose assessment for the public based on the environmental radioactivity data in Portugal, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- Manteigas, V., Lage, J., Gomes, M., Giorgetti, G., & Almeida, S.M., Environmental Audits: an analysis prior to the participation of Portuguese schools in the ClimACT project, International Congress on Environmental Health (ICEH 2019), Lisboa, Portugal, 25-27 September 2019.
- Marques, R., Prudêncio, M.I., Dias, M.I., Waerenborgh, J.C., Russo, D., Gaspar, M.A., & Martins, M., Archaeological ceramics characterization by nuclear techniques, MATERIAIS 2019 — XIX Congress of Sociedade Portuguesa de Materiais and X International Symposium on Materials, Nova University of Lisbon, Lisboa, Portugal, 14-17 April 2019.
- Marques, R., Prudêncio, M.I., Dias, M.I., Waerenborgh, J.C., Russo, D., Gaspar, M.A., & Martins, M., Archaeological ceramics characterization by nuclear techniques. MATERIAIS 2019 — XIX Congresso da Sociedade Portuguesa de Materiais and X International Symposium on Materials, Nova University of Lisbon, 14-17 April 2019.
- Marques, R., Prudêncio, M.I., Rocha, F., Ferreira da Silva, E., Russo, D., Costa, C., & Cerqueira, A., Geochemistry of topsoils from Sal Island (Cape Verde). XII Congresso Ibérico de Geoquímica | XX Semana da Geoquímica, Évora, Portugal, 22-26 September 2019.
- Marques, R., Vieira, B.J.C., Prudêncio, M.I., Waerenborgh, J.C., Dias, M.I., Russo, D., Rocha, F., Silva, T., & Ruiz, F., Geochemistry and Fe speciation in active volcanic environments – the case of Fogo Island, Cape Verde, 16th International Symposium on Water-Rock Interaction (WRI-16) and to 13th International Symposium on Applied Isotope Geochemistry (1st IAGC International Conference), Tomsk, Russia, 21-26 July, 2019.

- Martins, V., Faria, T., Diapouli, E., Manousakas, M., Eleftheriadis, K., Viana, M., & Almeida, S.M., Indoor-to-outdoor levels of size-segregated particulate matter in urban microenvironments, International Congress on Environmental Health (ICEH 2019), Lisbon, Portugal, 25-27 September 2019.
- Martins, V., Faria, T., Diapouli, E., Manousakas, M., Eleftheriadis, K., Viana, M. & Almeida, S.M., Relationship between indoor and outdoor size-fractionated particulate matter collected in urban homes and schools, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisbon, Portugal, 9 - 11 July 2019.
- Miranda, A.I., Relvas, H., Ferreira, J., Lopes, D., Rafael, S., Silva, A., & Almeida, S.M., Artificial neural networks as a tool to control urban PM atmospheric levels, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisboa, Portugal, 9-11 July 2019.
- Moço, D.N., Gonçalves, A.P., & Santos, L., Development of New Thermoelectric Sulfides, Annual Workshop of C2TN - 2019, CTN, IST, Bobadela, Portugal, 19 November 2019.
- Monge Soares, A.M., Gomes, S.S., O que tem a ver um machado de três Moinhos com o Zambujal? O Pb altamente radiogénico, a OMZ e a metalurgia do Zambujal, Colóquio de Homenagem a Michael Kunst - Michael Kunst e o Calcolítico do Extremo Ocidente Peninsular: Em torno do Castro do Zambujal, Torres Vedras, 25 June 2019.
- P. Teles, Antunes, J., & Vaz, P., Specific absorption fraction estimation in a voxel phantom model of a mouse for use in new radiopharmaceutical developments, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- Paiva, I., Disposal options in Portugal, IAEA Technical Meeting on "Disposal options for small inventories of radioactive waste", IAEA, Vienna, 6 May 2019.
- Pasturel, M., Szlawska, M., Pikul, A.P., Gonçalves, A.P., Noël, H., Kaczorowski, D., Magnetic and related properties of the ternary germanides UT_1-xGe_2 ($T = Fe, Ni, Os$), 49th Journées des Actinides (JdA 2019), Erice, Italy, 14-18 April.
- Paulo, A., Belchior, A., D'Onofrio, A., Oliveira, C., Peitinho, D., Marques, F., Silva, F., Campello, M. P. C, Gano, L., Ravera, M., & Raposinho, P., Radiolabelled Gold Nanoparticles for Image-guided Chemoradiotherapy of Glioblastoma Multiforme, NanoMedicine International Conference 2019, Lisboa, Portugal, 23-25 October 2019.
- Paulo, A., Fernandes, C., Palma, E., Mendes, F., Quental, L., Raposinho, P., Belchior, A., Vaz, P., & di Maria, S., Radiobiological and Dosimetric Assessment of DNA-Targeted $^{99m}Tc(I)$ Complexes, NOVA BIOPHYSICA International Congress, Lisboa, Portugal, 4-6 September 2019.

- Pereira, L.C.J., Single Molecule Magnetic behaviour in 5f compounds; the particular case of U-SIMs, EC Symposium on the Molecular Approach to Functional Materials, IST, Lisbon, Portugal, 14 October 2019.
- Prudêncio, M.I., Valente, T., Marques, R., Sequeira Braga, M.A., & Pamplona, J., Thorium and Uranium distribution in a passive system for mine water treatment, 16th International Symposium on Water-Rock Interaction and 13th International Symposium on Applied Isotope Geochemistry (1st IAGC International Conference), Tomsk, Russia, July 21-26, 2019.
- Relvas, H., Ferreira, J., Lopes, D., Rafael, S., Almeida, S.M., & Miranda, A.I., A tool to rapidly assess urban air quality strategies in Europe, 19th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Bruges, Belgium, 3-6 June 2019.
- Rodrigues, A. L., Dias, M. I., Valera, A. C., Prudêncio, M.I., Marques, R., Cardoso, G., & Russo, D., O contributo da datação por luminescência de cerâmicas para o estabelecimento das dinâmicas de preenchimento em fossos de contextos ricos em calcite, Workshop C2TN - Thematic strands: cultural heritage & geoprocesses, strategic resources and global change, Bobadela, Portugal, 12 November 2019.
- Rodrigues, A.L., & Dias, M.I., O contributo da luminescência para a autenticidade e datação do Património Cultural, 2.º Encontro – A Universidade de Lisboa e o Património, Faculdade de Belas-Artes da Universidade de Lisboa, 27 - 30 November de 2019.
- Rodrigues, A.L., Dias, M.I., & Valera, A.C., Luminescência aplicada ao estudo das dinâmicas de preenchimento em recintos de fossos pré-históricos de contextos carbonatados, XIII Congresso Ibérico de Arqueometria, Universidade de Faro, 16-18 October 2019.
- Rodrigues, A.L., Dias, M.I., Cardos, G., Rafel Fontanals, N., Soriano, I., Prudêncio, M.I., Marques, R., & Russo, D., Identificação e datação por luminescência de evidências arqueológicas de "fire-setting" na mina La Turquesa, Catalunha (Espanha), XIII Congresso Ibérico de arqueometria, Universidade de Faro, 16-18 Outubro de 2019.
- Rodrigues, A.L., Dias, M.I., Prudêncio, M.I., Rocha, F., Muñoz, F.R., Marques, R., González-Regalado, M.L., Russo, D., & Cardoso, G., Paleoenvironmental considerations based on geochemistry and mineralogy of a Miocene lacustrine calcrete, Southern Portugal, 16th International Symposium on Water-Rock Interaction (WRI-16) and to 13th International Symposium on Applied Isotope Geochemistry (1st IAGC International Conference), Tomsk, Russia, 21-26 July, 2019.
- Rodrigues, A.L., Dias, M.I., Valera, A.C., Prudêncio, M.I., Marques, R., Cardoso, G., & Russo, D., Luminescence dating of ceramics as a contribution to the establishment of ditch' fill dynamics in calcite-rich contexts. MATERIAIS 2019 — XIX Congress of

Sociedade Portuguesa de Materiais and X International Symposium on Materials, Nova University of Lisbon, Lisbon, Portugal, 14-17 April 2019.

- Rodrigues, A.L., Dias, M.I., Valera, A.C., Prudêncio, M.I., Marques, R., Cardoso, G., & Russo, D., Chronological assay of a Pre-historical circular stone structure (Perdigões, Portugal), MATERIAIS 2019 — XIX Congresso da Sociedade Portuguesa de Materiais and X International Symposium on Materials, Nova University of Lisbon, Lisbon, Portugal, 14 - 17 April 2019.
- Rodrigues, A.L., Marques, R., Dias, M.I., Prudêncio, M.I., Valera, A.C., & Gméling, K., Geochemical fingerprinting the bell beakers from Cardim 6 and Porto Torrão archaeological sites, Ferreira do Alentejo, Portugal, XII Congresso Ibérico de Geoquímica, Universidade de Évora, 22-26 September 2019.
- Rodrigues, A.L., Marques, R., Dias, M.I., Prudêncio, M.I., Valera, A.C., & Gméling, K., Indicadores geoquímicos dos campaniforme dos sítios arqueológicos Cardim 6 e Porto Torrão, Ferreira do Alentejo, Portugal, XII Congresso Ibérico de Geoquímica, XII Congresso Ibérico de Geoquímica e a XX Semana de Geoquímica, Évora, Portugal, 22-25 September 2019.
- Savdie, J., Canha, N., & Almeida, S.M., Influence of new cigarette generations on indoor air quality, 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Lisboa, Portugal, 9-11 July 2019.
- Silva, F., Belchior, A., Paulo, A., Fernandes, C., Oliveira, C., Figueiredo, D., Palma, E., Marques, F., Mendes, F., Campello, M.P.C., Gano, L., Raposo, P., Vaz, P., & Di Maria, S., Molecular and Nanosized Radioconjugates for Cancer Theranostics, Encontro com a Ciência e Tecnologia em Portugal, Lisboa, Portugal, 8-10 July 2019.
- Silva, F., Mendes, C., D'Onofrio, A., Oliveira, C., Marques, F., Campello, M.P.C., Gano, L., Ravera, M., Raposo, P., & Paulo, A., Gold Nanoparticles for Image-Guided Delivery of Pt(IV) Prodrugs, NANO2Clinic COST WG1 Meeting, Funchal, Portugal, 13-14 July 2019.
- Silva, M.R., Susano, M., Rybusinski, J., Szczytko, J., Wyatt, P.B., & Pereira, L.C.J., Upsetting the 4f Magnetic Moment with Visible Light, Joint Workshop between MOLSPIN and NANOCOHYBRI, Superconductivity meets Molecular Spins, Lisbon, Portugal, 20-22 March 2019.
- Soares, A.M.M., Mataloto, R., Valério, P., Gomes, S.S., Soares, S.M., Soares, R.M.G.M. (2019). As razões isotópicas do Pb na determinação de proveniências de matérias-primas metálicas - o caso de assinaturas isotópicas do Pb altamente radiogénico. XIII Congresso Ibérico de Arqueometria, Universidade do Algarve, Faro, 16-19 October.
- Susano, M., Pereira da Silva, P.S., Pereira, L.C.J., & Silva, M.R., Semi-Empirical Calculations and Experimental Structural Studies of the Bis(2,2'-bipyridine)-tris(nitrato)-

lanthanide(III) Series, 1st National Crystallographic Meeting, Aveiro, Portugal, 13-14 June 2019.

- Susano, M., Rybusinski, J., Szczytko, J., Wyatt, P.B., Pereira, L.C.J., & Silva, M.R., Magnetization change upon illumination: the Ln(F20TPIP)3 series, Condensed Matter Physics National Conference (CMPNC 2019), FCUP, Porto, Portugal, 8-10 May 2019.
- Teles, P., Trincão, M., Santos, J., & Vaz, P., Estimation of the collective dose in the Portuguese population due to radiodiagnostic and nuclear medicine exams, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- Valério, P., Araújo, M.F., Soares, A.M.M., Silva, R.J.C. (2019). Caracterização tecnológica e cronologia absoluta de inovações metalúrgicas do 3º e 2º milénio a.C. no sul do actual território nacional. *XIII Congresso Ibérico de Arqueometria*, Universidade do Algarve, Faro, 16-19 October.
- Valério, P., Soares, A.M.M., Metalurgia do 3º milénio no Algarve e sul peninsular, *Colóquio Internacional Megalitismo e Metalurgia no Alto Algarve Oriental*, Câmara Municipal de Loulé, 22-23 November 2019.
- Velho, M.F.G., Santos, I.C., Pereira, L.C.J., Lopes, E.B., Charas, A., Almeida, M., & Belo, D., Gold Bisdithiolene Complexes with Peripheral Selenophene and Selenacyclopentane Units, *Chemistry: Shaping the future, 4th Meeting of the College of Chemistry (4ECQUL)*, Lisbon, Portugal, 16-19 July 2019.
- Vieira, B.J.C., Mössbauer Spectroscopy applied to Spin Crossover materials, *1st Iberian Meeting on Mössbauer Spectroscopy (IBERMÖSS-2019)*, Bilbao, Spain, 30-31 May 2019.
- Waerenborgh, J.C., "Mössbauer Spectroscopy in Instituto Superior Tecnico, University of Lisboa" IBERMÖSS-2019 1st Iberian Meeting on Mössbauer Spectroscopy, Bilbao, Spain, 30-31 May 2019. <https://www.ehu.eus/eu/web/ibermossmeeting>

POSTER

- Barrulas, R.V., Paiva, T.G., Casimiro, M.H., Sequeira, S.O., Macedo, M.F., Corvo, M.C. (2019). Hydrogels for paper artwork preservation. *MATERIAIS 2019 — XIX Congress of Sociedade Portuguesa de Materiais and X International Symposium on Materials*, Nova University of Lisbon, Lisbon, Portugal, 14-17 April 2019.
- Belo, D., Santos, R., Andrade, M. M., Silva, R.A.L., Santos, I.C., Coutinho, J.T., Pereira, L.C.J., Waerenborgh, J.C., Simão, D., & Almeida, M., Cobalt and Iron Thiophenic Dithiolates Hidden Magnetism: [Co/Fe(α -alkyl-tpdt)2]-, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.

- Borbinha, J., et al., Dosimetric Assessment in Different Tumor Sub-volumes for Targeted Radionuclide Therapy Using ^{67}Ga , $^{99\text{m}}\text{Tc}$, ^{125}I , ^{161}Tb and ^{177}Lu . Nova Biophysica conference, NOVA Campus de Campolide, Lisbon, Portugal, 4-6 September 2019.
- Borbinha, J., et al., Nanodosimetry and Radiobiological Studies in Different Tumor Phenotypes for Combined Radionuclide and Proton Beam Therapy. IST PhD Open Days, Instituto Superior Técnico, Lisbon, Portugal, 9-10 April 2019.
- Brotas, G., Gama, V., Santos, I.C., Lopes, E.B., Rabaça, S., Almeida, M., Paixão, J.A., Canadell, E., (CNB-EDT-TTF) ^{6}Ag ~7.911~9.15; a Bilayer Conductor with Polymeric Anion, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Cabo Verde, S., Madureira, J., Severino, A., Cojocar, M., Garofalide, S., Santos, P.M.P., Carolino, M.M., Margaça, F.M.A. (26– 30 May 2019). E-beam treatment for safety and quality improvement of fresh foods. 14th Tihany Symposium on Radiation Chemistry, Siófok, Hungary.
- Carnezim, M.J., Santos, C., Claudio, R., Waerenborgh, J.C., & Pereira, L.C.J., Nano-assembling of iron oxide spinel nanoparticles on 3D printing PLA scaffolds, 6th Nano Today Conference, Lisbon, Portugal, 16-20 June 2019.
- Cerdeira, A.C., Rosatella, A.A., Almeida, M., Pereira, L.C.J., & Afonso, C.A.M., Magnetic Liquids Based on Metal Complexes, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Coelho, R.C., & Gonçalves, A.P., Optimization of the sintering conditions and protective coatings for tetrahedrite-based materials, Chemistry: Shaping the Future & 2019 Summer School, 4th Meeting of the College of Chemistry (4ECQUL), Lisbon, Portugal, 16-19 July 2019.
- Corregidor, V., Barreiros, M.A., Salomé, P.M.P., Brites, M.J., & Alves, L.C., Study of In-depth inhomogeneities in solar cell materials by PIXE and RBS, 16th International Conference on Particle Induced X-ray Emission (PIXE2019), Caldas da Rainha, Portugal, 24-29 March 2019.
- Corregidor, V., Cruz, J., Alves, L.C. (14 – 17 April 2019) Ion beam analytical techniques to discover what is behind the cultural heritage artifacts, MATERIAIS 2019 — XIX Congress of Sociedade Portuguesa de Materiais and X International Symposium on Materials, Nova University of Lisbon, Lisbon, Portugal, 14-17 April 2019.
- Corregidor, V., Cruz, J., Alves, L.C. (27-30 November 2019) Cultural heritage artefacts and ion beam analytical techniques. A Universidade de Lisboa e o Património. 2º Encontro. Faculdade de Belas-Artes, Lisbon, Portugal.

- Coutinho, J.T., Canha, N., Galinha, C., Martins, V., Faria, T., Almeida-Silva, M., Lage, J., Alves, C., Rigler, M., Močnik, G., Diapouli, E., Eleftheriadis, K., Almeida, S.M. (2019) Assessment of Aerosol Emission Sources in a Traffic Site Combining On-line and Off line Measurements. European Aerosol Conference – EAC 2019, Gothenburg, Sweden, 25 – 30 August.
- Coutinho, J.T., Almeida-Silva, M., Galinha, C., Canha, N., Alves, C., Nunes, T., Pio, C., Pandolfi, M., Alaustey, A., Rigler, M., Močnik, G., Almeida, S.M. (2019) Source Apportionment of Carbonaceous Aerosols with High Time Resolution. European Aerosol Conference – EAC 2019, Gothenburg, Sweden, 25 – 30 August.
- Coutinho, J.T., Canha, N., Almeida-Silva, M., Galinha, C., Lage, J., Faria, T., Martins, V., Alves, C., Pio, C., Nunes, T., Rigler, M., Mocnik, G., Almeida, S.M. (2019) Studies of carbonaceous particles at a traffic site - Moscavide/Lisbon, Portugal. 12th International Conference on Carbonaceous Particles in the Atmosphere - ICCPA2019, Vienna, Austria, 3 – 6 April.
- Cruz, J., Silva, R.J.C., Corregidor, V., Alves, L.C., μ -PIXE/ μ -EBS and SEM analysis of surface spots in gold coins/discs from the Portuguese Mint House, 16th International Conference on Particle Induced X-ray Emission (PIXE2019), Caldas da Rainha, Portugal, 24-29 March 2019.
- Ferreira, H.M., Malta, J., Ferreira, L.M., Casimiro, M.H., Santos, L., Pereira, M.F.C., Gonçalves, A.P., & Lopes, E.B., NiS₂ seen as a potential p-type thermoelectric material, 2nd Iberian Thermoelectric Workshop (ITW2019), Ciudad Real, Spain, 5-6 September 2019.
- Gama, V., Brotas, G., Santos, I.C., Lopes, E.B., Rabaça, S., Almeida, M., & Paixão, J.A., New bilayer β "-(CNB-EDT-TTF)4A salts; A=AuI₂-, I₂Br-, AsF₆- and Ag₂(CN)₃-, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Gomes, S.S., Araújo, M.F., Soares, A.M.M., Correia, V.H. Análise elementar e isotópica do chumbo em estudos de proveniência: As canalizações de chumbo no Império Romano., 4th Workshop Cultural Heritage & Geoprocesses, Strategic Resources and Global Changes, C2TN Thematic Strand – Earth Systems, Radioactivity and Cultural Heritage. Lisboa, Portugal, 12 November.
- Guerreiro, J., et al., Study of the effectiveness of low-densely ionizing radiation as a DNA-damaging anticancer treatment in different cancer cell lines, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- I.C. Santos, V. Gama, S. Rabaça, M. Almeida, J.A. Paixão, "Structural diversity in conducting bilayer salts (CNB-EDT-TTF)4A", 13th International Symposium on Crystalline

Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.

- Komijani, D., Susano, M., Silva, M.R., Bolvin, H., Pereira, L.C.J., Martín-Ramos, P., Coutinho, J.T., Martín-Gil, J., Almeida, M., & Hill, S., EPR and ab-initio studies of erbium(III) SIMs, Condensed Matter Physics National Conference (CMPNC 2019), FCUP, Porto, Portugal, 8-10 May 2019.
- Leal, J. P., Previsão de propriedades – Workshop, VI Encontro Internacional da Casa das Ciências – Ensino das Ciências e a Sociedade Moderna, Lisboa, Portugal, July 2019.
- Leal, T., Rocha-Rodrigues, P., Moreira, R., Oliveira, G.N.P., Correia, J.G., Lopes, A.M.L., & Araújo, J.P., Local Probing On Hybrid Improper Ferroelectric $\text{Ca}_3\text{Ti}_2\text{O}_7$, Matrac 2 School, Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FRM II), Munich, Germany, 1-5 April 2019.
- Lopes, E.B., Oliveira, S., Gonçalves, A.C., Oliveira, G., Gama, V., Santos, I.C., Rabaça, S., Almeida, M., Günther, D., Rohwer, A., & Dresse, M., Electrical Transport and Infrared Properties of Bilayer Conductors $(\text{CNB-EDT-TTF})_4\text{X}$, $\text{X} = \text{ClO}_4^-$, ReO_4^- , and SbF_6^- , 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Madureira, J., Dias, M.I., Barros, L., Santos-Buelga, C., Margaça, F.M.A., Ferreira, I.C.F.R., Cabo Verde, S., Effect of gamma radiation on bioactive compounds of olive wastes, 11º Encontro Nacional de Cromatografia (11ENC), Caparica, Portugal, 9-11 December 2019.
- Marçalo, J., A Química de Coordenação dos Elementos f - De Novas Transformações Químicas a Aplicações Inovadoras, 20ª JORTEC - A construir a Química - Cada orador no seu bloco, Núcleo de Química Aplicada - FCT/UNL, Caparica, February 2019
- Melo, L., Baptista, L., Mataloto, R., Valério, P., Silva, A.M., & Soares, A.M.M., The Bronze Age of Southwestern Iberian Peninsula - Endogenous evolution versus migration stimuli, 25th Annual Meeting of the European Association of Archaeologists, Bern, Switzerland, 4-7 September 2019.
- Moço, D.N., Gonçalves, A.P., Lopes, E.B., & Santos, L., Development of New Thermoelectric Sulfides, PhD Open Days 2019, IST, Lisbon, Portugal, 9-10 April 2019.
- Monteiro Gil, O., et al., Use of biological dosimetry to confirm radiation overexposure - case study. ICDA-3, 3rd International Conference on Dosimetry and its Applications (ICDA-3), Lisbon, Portugal, 27-31 May 2019.
- Moreira, R.P., Leal, T.J., Rocha-Rodrigues, P., Oliveira, G.N.P., Ding, L., Colin, C.V., Darie, C., Goujon, C., Legendre, M., Correia, J.G., Araújo, J.P., & Lopes, A.M.L., Perturbed

Angular Correlation Study of SrMnGe₂O₆, SrCoGe₂O₆ and CaMnGe₂O₆, 26th Wien2k Workshop, Technische Universität Wien, Vienna, Austria, 13-17 August 2019.

- Nunes, P.M., et al., Stakeholder Engagement through scenario-based discussion panels – Portuguese National Panel, CONFIDENCE Dissemination Workshop, Bratislava, Slovakia, 2-5 December, 2019.
- Pereira, L.C.J., Silva, M.R., Magnetic and Luminescent Globular Lanthanide Complexes: the Ln(F₂OTPIP)₃ Series, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Rabaça, S., Lopes, G., Varatojo, A., Gama, V., Simão, D., Santos, I.C., Lopes, E.B., Pereira, L.C.J., & Almeida, M., The Role of C-N...H Interactions in Cyanobenzene-Ethylenedithio-TTF Radical Salts, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Rocha-Rodrigues, P., Leal, T., Oliveira, G.P., Moreira, R., Correia, J.G., Lopes, A.M.L., & Araújo, J.P., Perturbed Angular Correlation γ - γ measurements on CaMnO₃, International Workshop on Advanced Magnetic Oxides (IWAMO), Aveiro, Portugal, 15-17 April 2019.
- Rocha-Rodrigues, P., Santos, S.S.M., Leal, T., Oliveira, G.N.P., Moreira, R., Correia, J.G., Assali, L.V.C., Petrilli, H.M., Lopes, A.M.L., & Araújo, J.P., Local probing CaMnO₃ structural phase transitions, XVIII Brazil MRS Meeting (SBPMat), Balneário Camboriú, Santa Catarina, Brazil, 22-26 September 2019.
- Rocha-Rodrigues, P., Santos, S.S.M., Leal, T., Oliveira, G.N.P., Miranda, I.P., Moreira, R., Assali, L.V.C., Petrilli, H.M., Correia, J.G., Araújo, J.P., & Lopes, A.M.L., Local Probing Ca_n+1Mn_nO_{3n}+1 structural phase transitions, International Conference on Strongly Correlated Electron Systems (SCES'19), Okayama, Japan, 23-28 September 2019.
- Wahl, U., Correia, J.G., Villarreal, R., Vantomme, A., & Pereira, L.M.C., Unambiguous identification of the split-vacancy configuration of the SnV– defect in diamond, 24th International Conference on Ion Beam Analysis (IBA), Antibes, France, 13-18 October 2019.
- Rodrigues, A.L., Dias, M.I., Valera, A.C., Prudêncio, M.I., Marques, R., & Russo, D., Variações composicionais e de luminescência em cerâmicas arqueológicas – contributo para o estudo da dinâmica de preenchimento em fossos pré-históricos (Perdigões, Portugal), 2º Encontro – A Universidade de Lisboa e o Património, Faculdade de Belas-Artes da Universidade de Lisboa, Lisbon, Portugal, 27-30 November 2019.
- Rodrigues, A.L., Dias, M.I., Valera, A.C., Rocha, F., Prudêncio, M.I., Cardoso, G., Russo, D., & Marques, R., Datação absoluta por luminescência e estudos composicionais para a paleoreconstrução de estruturas tipo fosso na Horta dos Quarteirões, Alentejo

(Portugal), XIII Congresso Ibérico de Arqueometria, Universidade de Faro, 16-18 October 2019.

- Rodrigues, A.P., Carvalho, F., Silva, R.J.C., Correia, V.H., Coroado, J., Ferreira, L.M., Veiga, J.P., Roman Construction Lime in Conimbriga, Portugal – from production to alteration. MATERIAIS 2019 — XIX Congress of Sociedade Portuguesa de Materiais and X International Symposium on Materials, Nova University of Lisbon, Lisbon, Portugal, 14-17 April 2019.
- Silva, R.A.L., Santos, I.C., Gama, V., Lopes, E.B., Auban-Senzier, P., Almeida, M., & Belo, D., TTF and TMTSF Salts with [M(dcdmp)₂] Anions (M=Au and Cu); High Conductivity and Unusual stoichiometry, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Soares, A.M.M., Mataloto R., Valério P., Gomes S.S., Soares S.M., Monge Soares R.M.G.M. As razões isotópicas do Pb na determinação de proveniências de matérias-primas metálicas - o caso de assinaturas isotópicas do Pb altamente radiogénico. XIII Congresso Ibérico de Arqueometria, Faro, 16-18 October.
- Susano, M., Rybusinski, J., Szczytko, J., Wyatt, P.B., Martín, I.R., Lavín, V., Juszynska-Galazka, E., Maria, T.M.R., Rabaça, S., , G. Lopes, Varatojo, A., Gama, V., Simão, D., Santos, I.C., Lopes, E.B., Pereira, L.C.J., & Almeida, M., The Role of C-N...H Interactions in Cyanobenzene-Ethylenedithio-TTF Radical Salts, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Susano, M., Rybusinski, J., Szczytko, J., Wyatt, P.B., Martín, I.R., Lavín, V., Juszynska-Galazka, E., Maria, T.M.R., Pereira, L.C.J., & Silva, M.R., Magnetic and Luminescent Globular Lanthanide Complexes: the Ln(F20TPIP)₃ Series, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Symeou, E., Louca, L., Kyratsi, T., Vlachos, N., Coelho, R., Lopes, E.B., Gonçalves, A.P., Brito, F.P., Martins, J., Gonçalves, L.M., & Vieira, R., THERMOSS Project: Sustainable Thermoelectric Modules based on Non-toxic Silicides and Sulphides for Recovery of Waste Heat to Power Generation, 17th European Conference on Thermoelectrics (ECT2019), Limassol, Cyprus, 23-25 September 2019.
- Valério, P., Araújo, M.F., Soares, A.M.M., Silva, R.J.C. Caracterização tecnológica e cronologia absoluta de inovações metalúrgicas do 3º e 2º milénio a.C. no sul do actual território nacional. XIII Congresso Ibérico de Arqueometria, Universidade do Algarve, Faro, 16-18 October.
- Varatojo, A., Lopes, G., Gama, V., Santos, I.C., Simão, D., Almeida, M., & Rabaça, S., 4-Cyanobenzene-Ethylenedithio-TTF Radical Salts and the role of C-N...H-C interaction, 1st National Crystallographic Meeting, Aveiro, Portugal, 13-14 June 2019.

- Velho, M.F.G., Santos, I.C., Pereira, L.C.J., Lopes, E.B., Charas, A., Almeida, M., & Belo, D., Gold Bisdithiolene Complexes with Peripheral Selenophene and Selenacyclopentane Units, Chemistry: Shaping the Future & 2019 Summer School, 4th Meeting of the College of Chemistry (4ECQUL), Lisbon, Portugal, 16-19 July 2019.
- Velho, M.F.G., Santos, I.C., Pereira, L.C.J., Lopes, E.B., Charas, A., Almeida, M., & Belo, D., Changing Thiophene for Selenophene: How Does it Affects the Transport Properties of Gold Bisdithiolenes, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Velho, M.F.G., Santos, I.C., Pereira, L.C.J., Lopes, E.B., Charas, A., Almeida, M., & Belo, D., Gold Bis-selenophenedithiolene Complexes, 12th European School on Molecular Nanoscience, 7th Workshop on 2D Materials (ESMolNa 2019), Elche, Alicante, Spain, 19-24 May 2019.
- Vieira, B.J.C., Gama, V., Santos, I.C., Pereira, L.C.J., Bandeira, N.A.G., & Waerenborgh, J.C., Magnetic and Structural Correlations in Iron (III) SCO Complexes: Towards Switchable Molecular Conductors, 13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets (ISCOM2019), Tomar, Portugal, 22-27 September 2019.
- Wahl, U., Costa, A., Lima, T.A.L., Moens, J., Correia, J.G., da Silva, M.R., Kappers, M.J., Vantomme, A., & Pereira, L.M.C., Lattice location of Be and Mg in GaN: Exploring the acceptor doping limits, 24th International Conference on Ion Beam Analysis (IBA), Antibes, France, 13-18 October 2019.

2 SEMINARS

2.1 Seminars given by C²TN members

- Almeida, I.P., Proton therapy – from the benefits to the challenges for clinical implementation, seminar at Faculty of Sciences, University of Lisbon. October 23, 2019.
- Almeida, I.P., Proton therapy – from the benefits to the challenges for clinical implementation, Seminar at Technical University of Lisbon, University of Lisbon. November 13, 2019.
- Almeida, S.M., Apresentação e esclarecimento à população de Paio Pires e comunicação social do “estudo de análise das partículas depositadas na Aldeia de Paio Pires”, Forum Seixal, 11 May 2019.
- Almeida, S.M., CLIMACT - Transição para uma economia de baixo carbono nas escolas, Evento Transnacional PORTUGAL – ESPANHA Edufootprint, Eficiência Energética em Escolas do Mediterrâneo, Castelo de Vide, Portugal, 26 March 2019.

- Almeida, S.M., Este ar que respiramos, Palestras dos Estágios de Verão from DEQ, Instituto Superior Técnico, Lisbon, Portugal, 17 July 2019.
- Antunes, J., Fluid-elastic forces: How to get “free” extra data with a minimum of physical input?, EDF-Chatou, France, 2 December, 2019.
- Antunes, J., Modélisation des interactions fluidélastiques: Considérations générales sur les forces de couplage, CEA-Saclay, France, 22 May, 2019.
- Cabo Verde, S., Ionizing radiation applications. Unidade curricular Efeitos da Radiação, Mestrado em Bioquímica, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, 6th May 2019.
- Cabo Verde, S., Ionizing radiation as lethal agent – sterilization. Pós-Graduação GMP para Canábis Medicinal, Laboratório Militar Português e Faculdade de Farmácia da Universidade de Lisboa, 18th October 2019.
- Carreira, P.M., Groundwater Dating Concept. Seminário no Mestrado em Engenharia Geológica e de Minas - Disciplina Recursos Hidrominerais e Geotérmicos, Instituto Superior Técnico, Universidade de Lisboa. 1 April
- Corregidor, V., Microsonda Nuclear e Aplicações: Património Cultural. Mestrado em Proteção e Segurança Radiológica, Instituto Superior Técnico, Universidade de Lisboa, November 2019.
- Crespo, R., Recent results for (p,pN) reactions, seminar at Surrey University, United Kingdom. June, 2019.
- Correia, J.G., & Pereira, L.M.C., Real practice of radioactive nuclear techniques in materials and soft matter @ ISOLDE, perspectives seminar at SPES, Legnaro, Italy. May, 2019.
- Correia, J.G., Pereira, L.M.C., & Wahl, U. Research highlights on advanced electronic materials at ISOLDE EC and TDPAC, examples using e⁻, e⁺, α , γ as messengers of tiny physics in materials, informal workshop on beta-NMR and related techniques with members of the ISOLDE Radioactive Beam facility (CERN), Geneva University, Faculty of Science, Switzerland. June, 2019.
- Gano, L., Utilização de radionuclídeos em ensaios in vitro, Master Course on Clinical Analysis, FFUL, Lisbon, February.
- Garcia Rivas, J., Seminar entitled “Estrutura, génesis y propiedades de arcillas magnéticas” included in the course “Propiedades y aplicaciones de las arcillas” of the Master's Degree in Geology of the University of Salamanca. 30th of April of 2019.
- Lage, J., “A Poluição do Ar – a teoria e a prática” presentation in the framework of the Curricular Unit “Introduction to the Environmental Biotechnology” of the Biotechnology

degree of the Universidade Lusófona de Humanidades e Tecnologias de Lisboa, November 2019, Lisbon.

- Lage, J., A Poluição Atmosférica: como monitorizar e controlar. Faculdade de Engenharia, Universidade Lusófona de Humanidades e Tecnologias de Lisboa, 14th February 2019, Lisbon, Portugal
- Lage, J., A poluição atmosférica: controlo e monitorização, presentation in the framework of the Curricular Unit "Introduction to the Environmental Engineering" of the Environmental Engineering degree from Engineering Faculty of the Universidade Lusófona de Humanidades e Tecnologias de Lisboa, December 2019, Lisbon.
- Lage, J., Seminar Controlo e Monitorização da Poluição Atmosférica. Seminar for Master students of Environmental Engineering, and open to all faculty students. J. Lage was invited by the Engineering Faculty, from Universidade Lusófona de Humanidades e Tecnologias de Lisboa, 29th November 2019, Lisbon, Portugal.
- Leal, J. P., Tabela Periódica: Um cartão de visita, Festival de Ciência - Escola Secundária Seomara da Costa Primo, Amadora, Portugal, November 2019.
- Leal, J. P., Métodos de previsão de entalpias de formação, From Molecules to Crystals and Beyond, Universidade do Algarve, Faro, Portugal, June 2019.
- Leal, T., Rocha-Rodrigues, P., Moreira, R., Oliveira, G.N.P., Teixeira, R.C.C., Lopes, A.M.L., Araújo, J.P., & Correia, J.G., Local Probing on Naturally Layered Perovskites, seminar at IFIMUP Talks, University of Porto, Portugal. January, 2019.
- Leal, T., Rocha-Rodrigues, P., Moreira, R., Oliveira, G.N.P., Teixeira, R.C.C., Lopes, A.M.L., Araújo, J.P., & Correia, J.G., Local Probing $\text{Ca}_{1-x}\text{Mn}_x\text{O}_{3-n+1}$ Naturally Layered Perovskite, seminar at Investigação Jovem da Universidade do Porto 2019 (IJUP 2019), University of Porto, Portugal. February, 2019.
- Marques, R., Seminário em aula de Análise por Activação com neutrões (AAN) (3h) no âmbito do Mestrado em Protecção e Segurança Radiológica (2018-2020) do IST, na Unidade Curricular Resíduos Radioactivos (66h/2º semestre), 9 de Maio 2019.
- Melo, R., Aplicações das tecnologias de radiação, RaBBIT doctoral training programme, Departamento de física, Universidade Nova de Lisboa.
- Melo, R., Molecular dynamics simulation for proteins, Summer School in Computational Biology, Departamento Química, Universidade de Coimbra.
- Monteiro Gil, O. "Protecção e Segurança Radiológica- efeitos biológicos da exposição a radiação ionizante", lecture at the RABBIT PhD programme, Radiation Biology & Biophysics, 27 May, Faculdade de Ciências e Tecnologia, Campus da Caparica, Universidade Nova de Lisboa, Portugal.

- Moreira, R., Leal, T., Rocha-Rodrigues, P., Oliveira, G.N.P., Ding, L., Colin, C.V., Darie, C., Goujon, C., Legendre, M., Correia, J.G., Araújo, J.P., & Lopes, A.M.L. Multiferroic $\text{SrMnGe}_2\text{O}_6$ and $\text{CaMnGe}_2\text{O}_6$ - A Local Probe Study, seminar at Investigação Jovem da Universidade do Porto 2019 (IJUP 2019), University of Porto, Portugal. February, 2019.
- Valério, P., Metalurgia na Antiguidade. Metodologias analíticas e casos de estudo. Licenciatura em Arqueologia – Disciplina de Mineração e Metalurgia na Antiguidade, Faculdade de Letras, Universidade de Lisboa. 8 November.
- Wahl, U., First results on the temperature dependence of the ^{11}Be lattice location in GaN, work group seminar at Instituut voor Kern- en Stralingsfysica, Leuven, Belgium. February, 2019.
- Wahl, U., Direct structural identification and quantification of the split-vacancy configuration for implanted Sn in diamond, work group seminar at KU Leuven, Belgium. November, 2019.

2.2 Seminars hosted by C²TN

- The new International System of Units; **Isabel Godinho** - Metrology Department, Portuguese Institute of Quality (Portugal) 14 February, 2019
- Bacterial Cell Division: may the force be with you; **Mariana Pinho** - Institute of Chemical and Biological Technology (ITQB), NOVA University of Lisbon (Portugal) 1 March, 202
- The Power of Voice; **Maria Júlia Guerra** (Portugal) 14 March, 2019
- Molecular Nanomagnets for Quantum Technologies; **Prof. Dr. Joris van Slageren** - Institut für Physikalische Chemie, Universität Stuttgart (Germany) 20 March, 2019
- Why should I talk with journalists?; **Vera Novais** - Newspaper "Observador" (Portugal) 28 March, 2019
- Radiation Protection Research in Europe: Alignment of European and National Efforts; **Nathalie Impens** - Belgian Nuclear Research Centre (SCK•CEN) (Belgium) 15 April, 2019
- Physical-chemical investigation in an archeology museum: the case of Conímbriga; **Virgílio Hipólito Correia** - Conímbriga Ruins and Monographic Museum (Portugal) 18 April, 2019
- More surprises in f-electron magnetism (see abstract); **Alexander B. Shick** - Institute of Physics CAS (Czech Republic) 6 May, 2019
- Unmanned Aerial Vehicles: Advantages and Challenges; **Capitão Luís Marques** - Centro de Investigação da Academia da Força Aérea (Portugal) 9 May, 2019

- Recent Activities at the Radiological Engineering, Detection, and Dosimetry (RED2) Laboratory at Texas A&M University; **Shaheen A Dewji** - Department of Nuclear Engineering, Texas A&M University (USA) 23 May, 2019
- Recent developments in theranostic radiopharmaceuticals. From radionuclides to clinical applications; **Prof. Renata Mikołajczak** - National Centre for Nuclear Research, Radioisotope Centre POLATOM (Poland) 17 June, 2019
- Materials in medicine: from tissue engineering to drug delivery; **Susana Rocha** - KU Leuven (Belgium) 18 June, 2019
- Ins and outs of Ion Radiography; **Charles-Antoine Collins-Fekete** - University College London and National Physical Laboratory (United Kingdom) 25 June, 2019
- The value of big data for better healthcare; **Leonard Wee** - Maastricht Clinic / Maastricht University Medical Centre (The Netherlands) 7 November, 2019
- The history of the periodic table; **Adelino Galvão** - Centre for Structural Chemistry, IST-UL (Portugal) 22 November, 2019

3 PATENTS AND PERFORMING PATENTS

- A.C. Fernandes, T. Morlat, M. Felizardo, A. Kling e J.G. Marques, "Composição para Detecção de Emissores Alfa em Líquidos Utilizando Gotículas Superaquecidas e Respetivo Método de Medição da Energia Emitida", Pedido de Patente No. 115849, 16 outubro 2019
- Sanjib Chowdhury, A.P. Gonçalves, Patente de invenção nacional nº 115432, de 5 de Abril de 2019, intitulada "Materiais de carbonetos de urânio para alvos de espalação e respetivo processo de produção".
- J.P.Leal, J. M. Carretas, L. Maria, B. Monteiro, A. Cruz, Processo de síntese do líquido iónico di(2-etilhexil)-oxamato de tetraoctilamónio (IL-5), produto obtido e sua utilização na extracção selectiva de metais, Patente Portuguesa, PT 115507 (May 9th 2019).
- J.P.Leal, J. M. Carretas, L. Maria, B. Monteiro, A. Cruz, Síntese do líquido iónico dioctil,diglicolamato de tetraoctilamónio (IL-4), produto obtido e sua utilização na remediação de metais, Patente Portuguesa, PT 115508 (May 9th 2019).

4 NEW MATERIALS, DEVICES, PRODUCTS AND PROCESSES

- E. David Bosne. PyFDD version 0.7.0: A Python code for fitting 2-dimensional channeling patterns, Zenodo, Github-, <http://dx.doi.org/10.5281/zenodo.3247499>.
- Tomoko Morlat, Ana Fernandes, Miguel Felizardo, Andreas Kling, José Antunes, José Marques e Tom Girard. Superheated emulsion-based prototype for alpha particle detection from solid samples

5 PERFORMANCES AND EXHIBITIONS

- M. I. Dias, M. I. Prudêncio. Permanent Exhibition in Museu Arqueológico de Fornos de Algodres: Caracterização Química e Mineralógica de Cerâmicas: Proveniências e Tecnologias de Produção, Portugal.
- Promotion of the "Science Dating" event at the European Researchers' Night 2019 with researchers from C2TN, Lisbon, Portugal, 27 September 2019. Ana Luísa Rodrigues, Casimiro, M.H., Gomes, S.S. Madureira, J.
- Participation in the Ciência2019 – the national science event at Portugal – in the stand of C2TN, with a demonstration entitled "The air that we breath – know to act", Lisbon (Portugal), 9 July 2019.
- Participation in Loures INSS 2019, Ambiente em Família, "ClimACT & LIFE Index-Air", Parque Adão Barata, 8 June 2019
- Canha, N. Project "O ar que respiramos" (within the Programme "Cientificamente Provável") with two classes of students of 9th grade from the Agrupamento de Escolas da Bobadela (Loures, Portugal), March 2019. The project gathered in situ measurements of IAQ in classrooms (with online monitoring boxes with low cost sensors), data treatment and presentation of the results in C2TN by the students.
- Canha, N. Seminar "O ar é de todos - o quê, porquê e como?" for 10th grade students of Escola Secundária Fernão Mendes Pinto (Almada, Portugal), 11 March 2019.
- Canha, N. Seminar "O ar é de todos - o quê, porquê e como?" for 9th grade students of Agrupamento de Escolas da Bobadela (Loures, Portugal), 5 February 2019.
- Seminar "O Ar é de todos!", Pavilhão da Ciência, Programa Encontro com o Cientista da Escola Ciência Viva, Pavilhão do Conhecimento, Lisbon, 18 October.
http://escola.cienciaviva.pt/Actividades/2018_19/Investigador/MartaAlmeida.asp

- Seminar “O Ar é de todos!”, Pavilhão da Ciência, Programa Encontro com o Cientista da Escola Ciência Viva, Pavilhão do Conhecimento, Lisbon, 22 February.
http://escola.cienciaviva.pt/Actividades/2018_19/Investigador/MartaAlmeida.asp
- Participation in “Seminário Eco-Escolas 2019” with the stand “ClimACT”, Lagoa 19-20 January 2019.
- E.B. Lopes, H. Ferreira, D. Moço, R. Coelho, A. P. Gonçalves, Como é fácil recuperar o calor perdido com materiais termoeléctricos, Encontro Ciência 2019, Lisboa 8-10 Julho 2019
- Casimiro, M.H., Ciência Viva no Laboratório 2019. Topic: Materiais macromoleculares processados por tecnologias alternativas. Two students from secondary school level (Anastácia Lvova - 10º ano, Escola Secundária Santa Maria, Sintra, and António Casimiro - 11º ano, Escola Secundária de Alcochete, Alcochete). C2TN/IST, Bobadela, Portugal, 1-5 Julho 2019.
- Ferreira, L.M., 2019 Science and Technology Week – Open Day C2TN, 26 November.
- Gomes, S.S., Araújo, M.F., Monge Soares, A.M., Valério, P., Correia, V.H., “A metalurgia do chumbo na Arquitectura Romana: O sistema hidráulico de Conimbriga”, Info-Gráfico no âmbito do Dia Internacional dos Monumentos e Sítios, 18 April 2019.
- Madureira, J. “Cientificamente Provável” involving 6th graders from the Agrupamento de Escolas do Alto do Lumiar, to share and promote the research developed at C2TN, 27th February 2019.

6 RESEARCH CONTRACTS

6.1 Industrial Research Contracts

- Câmara Municipal do Seixal – Chemical analysis of settled dust sampled in Aldeia de Paio Pires, 2019.
- Luminescence dating, dosimetric, and compositional studies of sediments from Tostana, Nijar, Spain. Requested by Eulalia Masana e Octavi Gomes, Universitat de Barcelona. Project: Prevención de desastres sísmicos en las Béticas Orientales mediante la integración de paleosismología, geodesia GPS, reevaluación del peligro sísmico y concienciación social (PREVENT; CGL2015-66263-R MINECO/FEDER). Team: Ana Luísa Rodrigues, Maria Isabel Dias, Dulce Russo

- Luminescence dating, dosimetric, and compositional studies of sediments from Lorca, Murcia, Spain. Requested by Raimon Pallàs e Robert Lopez Escudero, Universitat de Barcelona. Project: Prevención de desastres sísmicos en las Béticas Orientales mediante la integración de paleosismología, geodesia GPS, reevaluación del peligro sísmico y concienciación social (PREVENT; CGL2015-66263-R MINECO/FEDER). Team: Ana Luísa Rodrigues, Maria Isabel Dias, Dulce Russo
- Luminescence dating, dosimetric, and compositional studies of sediments from la Cova del Gat (Benirredrà, València, Spain) Requested by Aleix Eixea Vilanova, Universitat de Valencia, and Maria de Jesús de Pedro Michó, Museus de Prehistòria de Valencia. Project: estudio arqueológico en el yacimiento del Paleolítico medio de la Cova del Gat (Benirredrà, València). Team: Ana Luísa Rodrigues, Maria Isabel Dias, Dulce Russo
- Microbiological analysis for Indoor Air Quality in clean rooms, Contract IST-Tradelabor, Responsible: S. Cabo Verde, Jan- Dec 2019, 7.1 k€.
- Microbiological analysis for Indoor Air Quality in clean rooms, Contract IST-Stechcomply, Responsible: S. Cabo Verde, Jan – Dec 2019, 7.2 k€.
- Validation of a sterilization process by gamma radiation for eye implants, Ineyepharma, Responsible: S. Cabo Verde, 2018, 1.8 k€.
- RecValTR (Portugal 2020) Recovery and Valorization of Rare Earths in Waste Electronic and Electrical Equipment (WEEE) - INTERCYCLING - SOCIEDADE DE RECICLAGEM S.A Projeto: 33576 (2018-2020), Team Members: J. Marçalo, J. P. Leal, J. M. Carretas.

6.2 European Research Contracts

- IPERION - Horizon 2020 – Work Programme summer-autumn 2019 for European research infrastructures. Project "The pre-historical symbolic artefacts from Vila Nova de São Pedro, Portugal: fingerprinting a production center – SYMBOLART". BRR_ 586_IP. BNC - Budapest Neutron Centre (2019). Coordinating person: A. L. Rodrigues; Team: Rosa Marques, Maria Isabel Dias, Maria Isabel Prudêncio
- IPERION - Horizon 2020 – Work Programme summer-autumn 2019 for European research infrastructures. Project "Bell Beakers and penha-type ceramics from the NW Iberia: provenance and circulation issues - BELLPEN -". BRR_ 584_IP BNC - Budapest Neutron Centre (2019). Coordinating person: R. Marques; Team: Ana Luísa Rodrigues, Maria Isabel Dias, Maria Isabel Prudêncio
- European Joint Programme (EJP1) on Radioactive Waste – EURAD

Funding: € 47,5k by the European Commission
IST takes part in the project as Waste Management Organization (WMO)

Work package ROUTES for countries with no NPP and less advanced radioactive waste management programmes. Start: September 2019

- Hospital Sudoe 4.0 – Smart management of energy in hospital facilities, Programme Interreg Sudoe, 01/10-2019 - 31/03/2022. Total FEDER budget: 1.055.136,67€. Total IST Budget: 131.835,21€. www.hospitalsudoe40.eu
- MEDICIS-produced radioisotope beams for medicine (MEDICIS-PROMED), ITN (H2020-MSCA-ITN-2014) Responsible: Thierry Stora - CERN. C2TN responsible: António Paulo; Research Team (C2TN): António Paulo, António Gonçalves, Alice D'Onofrio, Sanjib Chowdhury; Total Funding: 2,829,269.88; C2TN Funding: 476,712.72 €.
- RTNORM - Calculation of kQ factors in modern external beam radiotherapy applications to update IAEA TRS – 398.EMPIR/EURAMET/16RNM03. Type of funding: Joint Research Project. Leading Institution ENEA (Italy). C2TN participants: Pedro Teles (IST-ID coordinator), Salvatore di Maria, Margarida Caldeira, Jorge Borbinha. EU funding (IST-ID): 40,000.00€
- CONFIDENCE – Coping with uncertainties for improved modelling and decision making in nuclear emergencies. HORIZON 2020. Funding scheme: CONCERT. Leading institution: KIT (Germany). C2TN participants: Mário Reis (IST-ID coordinator), Maria José Madruga, Isabel Paiva, Octávia Monteiro Gil. EU funding (IST): 69,788.00€
- MYRTE – MYRRHA Research and Transmutation Endeavour (HORIZON 2020 EURATOM). Funding scheme: Research and Innovation Action (RIA). Leading institution: SCK/CEN (Belgium). Portuguese participants: Pedro Vaz (Portuguese Coordinator), Yuriy Romanets. Start date: 1st April 2015. EU funding (IST-ID): 18,750.00 €.
- EURAD - European Joint Programme on Radioactive Waste Management (HORIZON 2020 EURATOM). Funding scheme: European Joint Programme (EJP), co-fund. Leading institution: ANDRA (France). Participants: Isabel Paiva (IST-ID Coordinator), Mário Reis. Started 1 June 2019. Funding: 49 000€
- SANDA -"Supplying Accurate Nuclear Data for Energy and non-Energy Applications" (Horizon 2020 EURATOM). Leading institution: CIEMAT (Spain). Portuguese participants: Pedro Vaz (Portuguese Coordinator), Isabel Gonçalves. Start date: 1st September 2019. EU finding (IST-ID): 25000 €.

6.3 Bilateral Projects

- 2018-2019 – Research Project with Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA, France): "Modélisation des interactions fluidélastiques (IFS-2018)", Ref. 4000/815374P5B61. Coordinator.

- 2019-2020 – Research Project with Commissariat à l'Energie Atomique et aux Energies Alternatives (CEA, France): "Modélisation des interactions fluidélastiques (IFS-2019)", Ref. 4000/845924P5B61. Coordinator.
- Radiolabeled and Clickable Antagonists for Targeted Radionuclide, Bilateral "Action Cooperação Científica e Tecnológica FCT/Polonia -2017/2018". Responsible: António Paulo; Partners: Polatom, Poland; Total Funding: C²TN Funding: 4,000 €.
- FCT-Bilateral project Portugal-Tunisia "Conventional and non-conventional strawberries processing: effects on product quality, safety, antioxidants and antidiabetic potential". Coordinator: S. Cabo Verde. Funding: 1.5 k€.

6.4 FCT-funded Projects

- Membrane proteins – development of new computational approaches and its application to G-Protein Coupled Receptors, FCT-PTDC/QUI-OUT/32243/2017. Principal Investigator: R. Melo; Total Funding: 237.267,54 €; C2TN Funding: 158.419,43 €.
- Targeting the transporters of cationic amino acids for cancer radiotheranostics: experimental and computational chemistry approach, FCT-PTDC/QUI-NUC/30147/2017. Principal Investigator: J.D.G. Correia; Total Funding: 231.078,67 €; C2TN Funding: 224.579,32 €.
- Novel Molecular Imaging tools for Cystic Fibrosis, PTDC/BTM-TEC/29256/2017, Principal Investigator: F. Mendes; Total Funding: 233.315,10 €; C2TN Funding: 188.315,10 €.
- Multifunctional Nanoseeds for Chemoradiotherapy of Glioblastoma, FCT-PTDC/MED-QUI/29649/2017, Principal Investigator: A. Paulo; Total Funding: 237.211,87 €; C2TN Funding: 220.211,87 €.
- Engineering of Smart Exosomes for Amyloid-beta Clearance in Alzheimer disease, PTDC/BTM-SAL/31057/2017, Principal Investigator: Fábio Monteiro Fernandes – CQFM (IST/ID); C2TN responsible: J. D. G. Correia. Total Funding: 237.853,85 €; C2TN Funding: 20.000 €.
- Development of a novel class of antibody-drug conjugates molecules for cancer treatment - ADC1.1, PTDC/BTM-SAL/32085/2017, Principal Investigator: Frederico Aires da Silva – FMV-UL. C2TN responsible: J. D. G. Correia; Total Funding: 239.638,46 €; C2TN Funding: 7.500 €.
- Drug Delivery Nanosystem for HPV infection therapy, UTAP-EXPL/NTec/0015/2017, Principal Investigator: Carla Cruz-UBI; C2TN responsible: A. Paulo; Total Funding: 99.994,00 €; C2TN Funding: 34.948,00 €.
- Overcoming the Brain Drug Delivery Bottleneck: Development of single domain antibodies for brain targeting and drug delivery across the Blood Brain Barrier, FCT-

PTDC/BBB-BIO/0508/2014. Principal Investigator: Frederico Aires da Silva – FMV-UL. C2TN responsible: J. D. G. Correia; Total Funding: 192 320,00 €; C2TN Funding: 15 600,00 €

- Peptides for blood brain barrier transmigration and drug delivery novel therapies for the central nervous system, FCT-PTDC/BBB-NAN/1578/2014. Principal Investigator: Vera Neves – IMM. C2TN responsible: J. D. G. Correia. Total Funding: 190 090; C2TN Funding: 12 500,00 €
- Innovative measurement of alfa particle contamination in integrated circuits – a contribution to the assessment of soft error rates", PTDC/EEI-ELC/2468/2014, Fundação para a Ciência e Tecnologia, 171 577 €, (since 1/Jul/2016)
- FRIENDS - Fleet of dRones for radlological inspEction, commuNication anD reScue. Funding: FCT - PTDC/EEI-ROB/28799/2017. Institutions: IST-ID; IT-UA. Coordinator: Alberto Vale (IPFN). C2TN participants: Yuriy Romanets, Pedro Teles, Jorge Borbinha, José Corisco, Pedro Vaz. Funding (IST-ID): circa 250 k€.
- PTDC/EPH-ARQ/6485/2014 "Temperatura da água do mar superficial, afloramento costeiro, produtividade de águas costeiras e sazonalidade da colheita de moluscos pelas populações Neandertais do Centro de Portugal no Último Interglacial (SHELLS)" (2016-2019). Coordinator (C2TN): A. M. Soares Budget: 188 k€.
- Radon - A Gas-Phase Ion Chemistry Perspective, PTDC/QUI-QFI/31896/2017 (01.10.2018 – 30.09.2021). PI: J. Marçalo; Team Members QEf: Sandrina Oliveira, J. P. Leal, J. M. Carretas, B. Monteiro, L. Maria.
- CO₂CRASH-Catalytic reduction of carbon dioxide and selective production of hydrocarbons, PTDC/EAM-PEC/28374/2017 (01.10.2018 – 30.09.2021). PI: Ana C. Ferreira; Team Members QEf: J. Branco.

6.5 Others

- TOF-PET for Proton Therapy (TPPT), Programa UTAustin — Portugal, Project Coordinator: Vasco Varela – PETsys Electronics – Medical PET Detectors; C2TN responsible: A. Paulo. Total Funding: 1 253 180 €; C2TN Funding: 229 604 €.
- RNEM - Portuguese Mass Spectrometry Network, Research Infrastructure n. 22125 (01.01.2017 – 31.12.2019). IST-Node Co-Coordinator: J. Marçalo; Team Members QEf: J. P. Leal, J. M. Carretas, L. Maria, B. Monteiro; Team Members REI: M. F. Araújo, P. M. Carreira, C. Galinha.

6.5.1 PROJECTS INVOLVING C2TN'S PARTICIPATION IN EXPERIMENTS AT CERN

- Portuguese participation in the n_TOF experiments at CERN (ref. CERN/FIS-PAR/0010/2017). FCT funding. Portuguese team: Pedro Vaz (Portuguese coordinator), Isabel F. Gonçalves, Pedro Teles, Yuriy Romanets. Funding: 15000 €. Start date: 2019.
- Participação portuguesa nas experiências n_TOF no CERN (2020-2021) (ref. CERN/FIS-PAR/0020/2019). FCT funding. Portuguese team: Pedro Vaz (Portuguese coordinator), Isabel F. Gonçalves, Pedro Teles, Yuriy Romanets. Funding: 45000 €. Start date: 1st April 2020.

6.5.2 IAEA PROJECTS

- IAEA – CRP D61024 Project no. 19220 “Fostering e-beam food irradiation: Modelling and Validation”. (2015-2019) Coordinator: S. Cabo Verde. Funding: 6 k€.
- IAEA - CRP F23033 Research Contract No. 22668 “Tracking Enteric Virus Inactivation by E-beam Irradiation”. (2018-2022) Coordinator: S. Cabo Verde. Funding: 5 k€.
- IAEA Research Contract No: 18982 (2016-2020) “Hybrid Materials Prepared by Ionizing Radiation for Consolidation and Preservation of Roman Mosaics”. IAEA Coordinated Research Project CRP F23032 - Developing Radiation Treatment Methodologies and New Resin Formulations for Consolidation and Preservation of Archived Materials and Cultural Heritage Artefacts. Coordinator: L.M. Ferreira. Funding: 12 k€.
- IAEA Research Contract No. 18202 (2014-2019) “Biodegradable polymer matrices obtained by ionizing radiation for skin scaffolds”. IAEA Coordinate Research Project CRP F23030-E31007 - Instructive Surfaces and Scaffolds for Tissue Engineering Using Radiation Technology. Coordinator: L.M. Ferreira/M.H. Casimiro. Funding: 22.5 k€.
- IAEA Research Contract No. 23186 (2019-2023) “Enhancing the Beneficial Effects of Radiation Processing in Nanotechnology”. IAEA Coordinated Research Project CRP F22070 - Nanostructured Hybrid Materials by Radiation Processing Assisted by Ionic Liquids. Coordinator: L.M. Ferreira. Funding: 18.0 k€.
- IAEA - CRP F11021 Research Contract No. 22195 “Enhancing Nuclear Analytical Techniques to Meet the Needs of Forensic Sciences” Coordinator: L.C. Alves. Funding (2019): 5 k€.

6.5.3 PORTUGAL 2020

- UPGAST – “Unified Platform for CBRN Attack/Accident Scenario management”. Funding scheme: PT 2020. Leading institution: TEKEVER. IST participants: Pedro Vaz (IST Coordinator), Octávia Monteiro Gil, Mário Reis, Catarina Antunes. Funding (IST): approx. 140.000€. Start date: 1st January 2016.

7 EDUCATION

7.1 Concluded PhD theses

- Amorim, C.O. "Experimental and Modeling Studies of Magnetoelectric Multiferroic Heterostructured Materials", PhD thesis in Physics, Universidade de Aveiro, February 2019. Supervisors: Vítor Brás de Sequeira Amaral (UA) and João Guilherme Martins Correia (C²TN).
- Baptista, M.I.S. "Dosimetric assessment and risk estimation in Digital Breast Tomosynthesis and Cone-Beam Computed Tomography examinations", PhD thesis in Biomedical Engineering, Instituto Superior Técnico, Universidade de Lisboa, May 2019. Supervisor: Pedro Vaz (C²TN), co-supervisor: Salvatore Di Maria (C²TN).
- Barbosa, M.B. "Electronic structure, lattice location and stability of dopants in wide band gap semiconductors", PhD thesis in Physics, Faculdade de Ciências, Universidade do Porto, January 2019. Supervisors: João Pedro Esteves de Araújo (UP) and João Guilherme Martins Correia (C²TN).
- Fenta, A.E.S. "Locally probing adatoms on graphene using perturbed angular correlation spectroscopy", PhD thesis in Physics, IKS-Leuven and Universidade de Aveiro, February 2019. Supervisors: Vítor Brás de Sequeira Amaral (UA), Lino Miguel da Costa Pereira (IKS-Leuven) and João Guilherme Martins Correia (C²TN).
- Lima, T.A.L. "Local structure of Mn-doped ferromagnetic semiconductors", PhD thesis in Physics, Instituut voor Kern- en Stralingsfysica, KU Leuven, Belgium, September 2019. Supervisors: Lino Pereira (KU Leuven), André Vantomme (KU Leuven), and Ulrich Wahl (C²TN).
- Velho, P.J.F. "Study of ground state properties of Halo nuclei via quasi-free scattering", PhD thesis in Physics, Faculdade de Ciências, Universidade de Lisboa, September 2019. Co-supervisor: Raquel Crespo (C²TN).

7.2 Concluded MSc

- Almeida, A.M. "Studying movement of the water vapour masses over Serra da Estrela Mountain area-Central Portugal through stable isotopes methodology", MSc thesis in Mining and Geological Engineering, Instituto Superior Técnico, Universidade de Lisboa, 2019. Supervisor: Paula Carreira (C²TN), co-supervisor: José Manuel Marques (IST - ULisboa).

- Batanete, S.M.A. "Bimodal Probes for Imaging of Prostate Cancer", MSc thesis in Medicinal and Biopharmaceutical Chemistry, Faculdade de Farmácia, Universidade de Lisboa, December 2019. Supervisor: António Paulo (C²TN).
- Buitrago, N. (2019). "Indoor air quality inside vehicle cabins while commuting in Lisbon", MSc thesis in Environmental Engineering, Instituto Superior Técnico, Universidade de Lisboa, October 2019. Supervisors: Sandra Cabo Verde and Marta Almeida (C²TN).
- Capelinha, P.A.C.S. "Planeamento de um Sistema Integrado de Gestão de Fontes Seladas na Indústria", MSc thesis in Radiological Protection and Safety, Instituto Superior Técnico, Universidade de Lisboa, December 2019. Supervisor: Isabel Paiva (C²TN).
- da Silva, R.A.P. "Synthesis and characterization of bimetallic cobalt-lanthanide oxides for CO₂ methanation", MSc thesis in Chemical Engineering, Instituto Superior Técnico, Universidade de Lisboa, 2019. Supervisors: Joaquim Badalo Branco and Ana Cristina Parreira (C²TN).
- Elias, M.I.A. "Food safety assessment on raspberries treated by e-beam", MSc thesis in Applied Microbiology, Faculdade de Ciências, Universidade de Lisboa, 2019. Supervisor: Sandra Cabo Verde (C²TN), co-supervisor: Maria Manuela Carolino (FCUL).
- Ferreira, D.S. "Otimização das contramedidas a aplicar em emergências radiológicas em Portugal através do European Model for Inhabited Areas (ERMIN)", MSc thesis in Radiological Protection and Safety, Instituto Superior Técnico, Universidade de Lisboa, December 2019. Co-supervisor: Mário Reis (C²TN).
- Ferreira, H.C.M. "New Sulfides for Thermoelectric Applications", MSc thesis in Materials Engineering, Instituto Superior Técnico, Universidade de Lisboa, June 2019. Supervisor: António Gonçalves (C²TN).
- Inácio, C.A.M. "Aplicação dos modelos de transmissão da cadeia alimentar à dieta típica portuguesa utilizando o Sistema de Suporte à Decisão JRODOS", MSc thesis in Radiological Protection and Safety, Instituto Superior Técnico, Universidade de Lisboa, December 2019. Supervisor: Mário Reis (C²TN).
- Jerónimo, F.V. "Otimização da Rede de Vigilância em Contínuo da Radioatividade Ambiente", MSc thesis in Radiological Protection and Safety, Instituto Superior Técnico, Universidade de Lisboa, December 2019. Co-supervisor: Mário Reis (C²TN).
- Lourenço, J.P.O. "Neutronic Studies of an Irradiation Facility Coupled to a Proton Cyclotron", MSc thesis in Engineering Physics, Instituto Superior Técnico, Universidade de Lisboa, June 2019. Supervisor: José Marques (C²TN), co-supervisor: Teresa Peña (IST - ULisboa).

- Lozano, J.S. "Analysis of the effects of new cigarette generations on indoor air quality", MSc thesis Environmental Engineering, Instituto Superior Técnico, Universidade de Lisboa, October 2019. Supervisors: Nuno Canha and Marta Almeida (C²TN).
- Martins, A.R.C. "Avaliação do nível de dose no útero nos exames de mamografia digital incluindo tomossíntese", MSc thesis in Radiological Protection and Safety, Instituto Superior Técnico, Universidade de Lisboa, December 2019. Supervisors: Salvatore di Maria (C²TN) and José Afonso (IPOLFG).
- Pinto, C.I.G. "Development of 3D spheroid cultures of cancer cells for the preclinical evaluation of novel theranostic agents", MSc thesis in Biomedical Engineering, Instituto Superior Técnico, Universidade de Lisboa, November 2019. Supervisor: Filipa Mendes (C²TN), co-supervisor: Joana Guerreiro (C²TN) and Cláudia Lobato da Silva (IST - ULisboa).
- Pires, F. "Co-60 source - a study on induction of damages and repair kinetics in a PC3 cell line", MSc thesis in Radiation applied to Health Technologies, Escola Superior de Tecnologias da Saúde de Lisboa, March 2019. Supervisor: Ana Belchior (C²TN).
- Ramos, J. "O ar que respiramos enquanto dormimos – caracterização da exposição humana a poluentes", MSc thesis in Environmental Engineering, Instituto Superior Técnico, Universidade de Lisboa, 2019. Supervisors: Nuno Canha and Marta Almeida (C²TN).
- Rocha, S. (2019), Estudos de proveniência de garrafas de vinho séc. XVIII-XIX encontradas em Almada Velha, Dept. of Conservation and Restoration, from the New University of Lisbon. Supervisor: Inês Coutinho (Dept of Conservation and Restoration, FCT-UNL), Co-supervisor: Luís Cerqueira Alves (C²TN, IST – Ulisboa).
- Roque, J.M.L. "Virucidal mechanisms of e-beam irradiation in human adenovirus", MSc thesis in Applied Microbiology, Faculdade de Ciências, Universidade de Lisboa, 2019. Supervisor: Sandra Cabo Verde (C²TN), co-supervisor: Filomena Caeiro (FCUL).
- Vogado, F. "Avaliação da concentração de partículas atmosféricas e elementos químicos numa área urbana – caso de estudo em Moscavide, Loures", MSc thesis in Analysis and Control of Environmental Health Risks, ISEL/ESTeSL/IPL, 2019. Supervisors: Marta Almeida (C²TN) and Marina Almeida-Silva (ESTeSL).

7.3 Concluded Graduations

- Moreira, J. "Emissão de poluentes pelo tráfego em Portugal", Internship in Environmental Health II, Licenciatura em Saúde Ambiental, Escola Superior de Tecnologia da Saúde de Lisboa, IPL, 2019.

- Pinto, C. "Avaliação da exposição humana a poluição do ar para mudar a forma como as pessoas se movem nas cidades", Internship in Environmental Health II, Licenciatura em Saúde Ambiental, Escola Superior de Tecnologia da Saúde de Lisboa, IPL, 2019.

7.4 Couses given in Universities and Polytechnic Schools

- N. Canha (2019) Chemistry course - laboratory classes - to the students of the 1st year of the Integrated Master in Electrical and Computer Engineering of Instituto Superior Técnico – University of Lisbon, 1st semester of 2019/2020.
<https://fenix.tecnico.ulisboa.pt/disciplinas/Qui77/2019-2020/1-semester>
- A. Kling, A.C. Fernandes, subject "Risks and Safety in the Application of Ionising Radiations", Master in Radiation Protection and Safety, IST (1st semester of 2nd year: Sep-Dec 2019)
- J. Marques, Monte Carlo Simulation Methods, Master Degree on Radiological Protection and Safety, IST
- J. Marques, Physics of Nuclear Reactors, Master Degree on Engineering Physics, IST
- J. Marques, Nuclear Techniques, Master Degree on Engineering Physics, Faculty for Sciences of the University of Lisbon
- S.M. Almeida (2019) Air Quality Managment, Master in Environmental Engineering and Chemical Engineering of Instituto Superior Técnico – University of Lisbon, 1st semester of 2019/2020.
- S.M. Almeida (2019) Air Quality Managment, Degree in Environmental Health of ISTESL/IPL, 1st semester of 2019/2020.
- Paulo, A., Invited Coordinator Professor at ESTeSL, Disciplines: Radiopharmacy I (5.5 ECTS, 2nd year, 1st Semester), Radiopharmacy II (5.0 ECTS, 2nd year, 2nd Semester)
- Mendes, F. - Department of Bioengineering, Instituto Superior Técnico, Universidade de Lisboa:

Genetic Engineering - Integrated Masters in Biological Eng and Biomedical Eng

ECTS 6 (average 3h/week – lectures and laboratory classes)

Molecular Biotechnology - Masters in Biotechnology, Microbiology and Radiation Protection and Safety

ECTS 6 (average 3h/week – lectures and laboratory classes)

Disciplina de “Propriedades Eléctricas e Magnéticas de Materiais”, no âmbito do programa de doutoramento em Química, Instituto Superior Técnico, 2º semestre, 2018-2019 (M. Almeida, L.C.J. Pereira).

- Dulce Belo, primeiro semestre do ano lectivo 2018-2019 e 2019-2020, Docente da Unidade Curricular de Química Geral ao primeiro ano do Mestrado Integrado de Engenharia Electrotécnica e de Computadores: aulas teóricas de (3h), de laboratório de Química (2horas/semana) e aulas de Problemas (1h/semana).
- Responsável pelos módulos de “Técnicas Nucleares de Análise” da Unidade Curricular “Resíduos radioactivos” do Mestrado de Protecção e Segurança Radiológica do IST, 2017-2019 (J.C.Waerenborgh).
- A. Falcão. Responsible for the Curricular Unit “Fundamentals of Radiation Protection and Safety”, Master’s Course in Radiation Protection and Safety, IST (1st semester 2019/2020)
- P. Vaz. Responsible for the Curricular Unit “Project in Radiation Protection and Safety”, Master’s Course in Radiation Protection and Safety, IST (1st semester 2019/2020)
- P. Vaz. Responsible for the Curricular Unit “Física e Engenharia Nuclear”, Master’s Course in Radiation Protection and Safety, IST (2nd semester 2018/2019)
- P. Vaz. Responsible for the Curricular Unit “Radiation Dosimetry and Shielding”, Master’s Course in Radiation Protection and Safety, IST (1st semester 2018/2019)
- P. Vaz. Responsible for the Curricular Unit “Project in Radiation Protection and Safety”, Master’s Course in Radiation Protection and Safety, IST (1st semester 2018/2019)
- M. Reis. Responsible for the Curricular Unity “Radioactividade Ambiente”, Master’s Course in Radiation Protection and Safety, IST (1st semester 2018/2019)
- O. Monteiro Gil. Responsible for the Curricular Unit “Efeitos Biológicos das Radiações”, Master’s Course in Radiation Protection and Safety, IST (2nd semester 2018/2019)
- I. Paiva. Responsible for the Curricular Unity “Radioactive Waste”, Master’s Course in Radiation Protection and Safety, IST (2nd semester 2018/2019)
- M. Reis. Responsible for the Curricular Unity “Metrologia das Radiações Ionizantes na Saúde e na Indústria”, Master’s Course in Radiation Protection and Safety, IST (1st semester 2018/2019)
- P. Teles. Collaboration as lecturer in the Curricular Unit “Radiation Dosimetry and Shielding”, Master’s Course in Radiation Protection and Safety, IST (1st semester 2018/2019)

- A. Belchior. Collaboration as lecturer in the Curricular Unit "Radiation Dosimetry and Shielding", Master's Course in Radiation Protection and Safety, IST (1st semester 2018/2019)
- M.J. Madruga. Collaboration as lecturer in the Curricular Unit "Environmental Radioactivity", Master's Course in Radiation Protection and Safety, IST (1st semester 2018/2019)
- J. Corisco. Collaboration as lecturer in the Curricular Unit "Environmental Radioactivity", Master's Course in Radiation Protection and Safety, IST (1st semester 2018/2019)
- M. Caldeira. Collaboration as lecturer in the Curricular Unit "Metrologia das Radiações Ionizantes na Saúde e na Indústria", Master's Course in Radiation Protection and Safety, IST (1st semester 2018/2019)
- P. Vaz. Responsible for the Curricular Unit "Radiation Protection and Dosimetry", Master's Course in Engineering Physics, IST (1st semester 2019/2020)

7.5 Other Pedagogic Collaborations

- Almeida, I.P., Topics in Proton Therapy, lecture for the Master of Protection and Radiation Safety of Technical University of Lisbon as part of "Projecto em Protecção e Segurança Radiológica" module. 4 October 2019. Lisbon, Portugal.
- Ana. C. Sá:

Invited lecture of medical imaging and radiotherapy department, Escola Superior Tecnologia da Saúde de Lisboa, Instituto Politécnico de Lisboa. Curricular units: technologies in medical imaging and radiotherapy I and II, Image processing in medical imaging and radiotherapy, fundamental of medical imaging and radiotherapy, clinical dosimetry I and II

Invited lecture of medical imaging and radiotherapy department, Escola Superior de Saúde Dr. Lopes Dias, Instituto Politécnico de Castelo Branco. Curricular units: oncology, methods and techniques in medical imaging and radiotherapy III and IV, bioethics applied to medical imaging and radiotherapy, case studies in radiotherapy, care for the cancer patient, research applied to medical imaging and radiotherapy.

Invited lecture of medical imaging and radiotherapy department, Escola Superior de Saúde Cruz Vermelha Portuguesa. Curricular units: Methods and techniques in radiotherapy I, Clinical dosimetry.

- M.J. Madruga, Collaboration as lecturer "Radioatividade Ambiente" in the 1st edition of the course "Entender o Mundo no Séc. XXI, Cidades Verdes, Cidades Sustentáveis", in the framework of the University Training Program for Seniors at the University of Lisbon. IST, 21th November 2019.
- Araújo, M.F., Invited Lecturer, in "Energy Dispersive X-ray Fluorescence Spectrometry" in the framework of one semester course on "Examination and Analysis Methods I" for the MSc's in "Conservation and Restoration", Departamento de Conservação e Restauro, FCT, UNL, January – February 2019.
- Cabo Verde, S., Food Irradiation: a technology for food safety. Entender o mundo no século XXI: Cidades verdes, Cidades sustentáveis. Programa de Formação Universitária para Séniores. Instituto Superior Técnico da Universidade de Lisboa, November 2019.
- Cabo Verde, S., Sistemas de Gestão de Qualidade – HACCP: Hazard Analysis and Critical Control Point for Biotechnology, curricular unit of the Master degree in Applied Microbiology, FCUL, April 2019.
- Cabo Verde, S., Microbial inactivation by ionizing radiation for the Microbial Biotechnology curricular unit of the Degree in Biology, FCUL, November-December 2019.
- Pinhão, N., Alves, L.C., Systems and Techniques of Radiation Detection, Bologna Master Degree in Radiation Protection and Safety, Dept. de Ciências e Engenharias Nucleares, Instituto Superior Técnico, 1^o Semester 2019/2020.
- Santos, P.M.P., Fricke Dosimetry Laboratory classes, Systems and Techniques of Radiation Detection, Bologna Master Degree in Radiation Protection and Safety, Department of Nuclear Sciences and Engineering, Instituto Superior Técnico, November 2019.
- Soares, A.M.M., Invited Lecturer in "Isotope Analysis", "Radiocarbon Dating" and "Luminescence Dating" in the framework of one semester course on "Examination and Analysis Methods II" for the Master degrees in "Conservation and Restoration", FCT/UNL, February 2019.
- J. Marçalo, Lecturer on Actinide Chemistry in the Radioactive Waste Course of the Bologna Master Degree in Radiation Protection and Safety – IST (2nd semester 2018/2019).
- J. P. Leal, Invited Teacher, Department of Chemical Engineering, Instituto Superior Técnico, Universidade de Lisboa, Physical Chemistry discipline, in IST integrated Master course of Chemical Engineering (1st semester 2019/2020).
- L. Maria, Lecturer (invited) in the Laboratórios de Química I (1st semester 2019/2020) and Laboratórios de Química II (2nd semester 2018/2019) disciplines of the integrated Master course of Chemical Engineering and Biological

Engineering, Department of Chemical Engineering, Instituto Superior Técnico, Universidade de Lisboa.

- B. Monteiro, Invited Teacher, Department of Chemical Engineering, Instituto Superior Técnico, Universidade de Lisboa, Chemistry Course in the Integrated Master's degree in Electrical Engineering and Computers.

7.6 Short Courses in National Institutions

- S.M. Almeida (2019) Exposição a poluentes atmosféricos em ambientes interiores, Curso "Entender o mundo no século XXI, Cidades Verdes, Cidades Sustentáveis", Programa de Formação Universitária para Seniores, Instituto Superior Técnico, Lisbon, Portugal, 26 november.
- S.M. Almeida (2019) Pós-Graduação em Gestão da Manutenção. Responsável pelo Seminário em Qualidade do Ar Interior na Manutenção, Instituto de Soldadura e Qualidade, Lisbon, Portugal, 29 march.
- Duarte Nova (2019) "Weeks for Future". Estágio de Verão IST de Curta Duração. IST Summer Internship of short duration. July to August 2019. Researcher: Joana T. Coutinho
- Sofia Bettencourt (2019) "Weeks for Future". Estágio de Verão IST de Curta Duração. IST Summer Internship of short duration. July to August 2019. Researcher: Joana T. Coutinho
- Beatriz Martins (2019) "Weeks for Future". Estágio de Verão IST de Curta Duração. IST Summer Internship of short duration. July to August 2019. Researcher: Joana T. Coutinho
- A. Oliveira:

Coordination

Coordenação do curso "Protecção radiológica na operação de gama densímetros", 20 Maio 2019, destinatários: funcionários do grupo NOV.

Coordenação do curso "Protecção radiológica", 07, 08 e 09 Maio 2019, destinatários: Técnicos e investigadores do ICNAS (Instituto de Ciências Nucleares Aplicadas à Saúde) de Coimbra.

Coordenação do curso "Especialização para o transporte de matérias radioactivas de classe 7", Fevereiro 2019, destinatários: Condutores do Exército.

Classes

A matéria e a radiação ionizante. Riscos, efeitos e protecção (3 horas). Sessão incluída no curso "Protecção radiológica na operação de gama densímetros", 20 Maio 2019.

Física das radiações ionizantes (2 horas). Sessão incluída no curso "Protecção radiológica", 07, 08 e 09 Maio 2019.

Dosimetria das radiações ionizantes (1 horas). Sessão incluída no curso "Protecção radiológica", 07, 08 e 09 Maio 2019.

Fundamentos da protecção radiológica (1 horas). Sessão incluída no curso "Protecção radiológica ", 07, 08 e 09 Maio 2019.

A cultura de segurança radiológica e o programa de protecção radiológica (1 horas). Sessão incluída no curso "Protecção radiológica ", 07, 08 e 09 Maio 2019.

Noções sobre radioactividade (2 horas). Sessão incluída no curso "Especialização para o transporte de matérias radioactivas de classe 7", Fevereiro 2019.

Fundamentos da protecção radiológica (1.5 horas). Sessão incluída no curso "Especialização para o transporte de matérias radioactivas de classe 7", Fevereiro 2019.

- Paulo, A., Invited teacher, Lecture on "Biodistribution of Nanoparticulate Drug Delivery Systems" COURSE i3DU, PhD Program Advanced Drug Delivery, Faculdade de Farmácia, Universidade de Lisboa.
- Paulo, A., Invited teacher, Lecture on "Development of Radioactive Probes for Imaging and Therapy". Course "Biological Chemistry" from the PhD Program ChemMedTrain, Universidade de Lisboa e Universidade de Coimbra.
- Paulo, A., Invited Teacher, Lecture on "Radiopharmaceutical Chemistry and Radiopharmaceuticals". Course "Inorganic Medicinal Chemistry, Master in Pharmaceutical Sciences, Universidade Lusófona, Lisboa.
- Ferreira, L.M. (2019). ERASMUS+ Staff Training Mobility program of a superior technician (Norbert Wrobel) from ICHTJ-Institute of Nuclear Chemistry and Technology, Warsaw. Topic: Characterization of Advanced Polymeric Materials Processed by Radiation. 18 – 22 November.
- Joaquim Marçalo, Member of the Scientific Committee on MS in the Course Modern Methods of Structure Elucidation–2019, CQE-IST, Lisboa, October 2019 (<https://cqe.tecnico.ulisboa.pt/mmse>).

- Leonor Maria - Member of the Organizing Committee and lecturer on NMR techniques - Course "Modern Methods of Structure Elucidation-2019", CQE-IST/C2TN, UL, Lisboa, October 2019 (<https://cqe.tecnico.ulisboa.pt/mmse>).
- J. P. Leal, FTICR-MS – a swissknife in the gas phase, Modern Methods of Structure Elucidation 2019, Lisboa, Portugal, Outubro 2019.

8 SCIENTIFIC COMMITTEES

- J. Alves. EURADOS Council Member (Jan-2007 to Feb-2019).
- S.M. Almeida, C. Correia, N. Canha, V. Martins, T. Faria, I. Lopes, J. Coutinho, J. Lage (2019) National and scientific committee of organization of the international conference RICTA2019 - 7th Iberian Meeting on Aerosol Science and Technology – RICTA 2019, held at Pavilhão do Conhecimento (Lisboa, Portugal), 9-11 July 2019. www.lifeindexair.net/ricta19/
- S.M. Almeida, J. Lage, C. Correia, N. Canha, V. Martins, T. Faria, I. Lopes, J. Coutinho (2019) National and scientific committee of organization of the ClimACT Conference, held at ESTESL (Lisboa, Portugal), 9-10 May 2019.
- J. Marques, Member of the Scientific and Technical Committee of the Euratom Treaty (article 134 of the Treaty), European Commission
- J. Marques, Member of the Advisory Board of the Euratom Supply Agency, European Commission
- Ana Luísa Rodrigues member of the scientific committee of XIII Congresso Ibérico de Arqueometria (XIII CIA - 2019), 16-18 October, Faro
- José Antunes Member of the Scientific Council of the Institut des Sciences de la Mécanique et Applications Industrielles - IMSIA, Unité Mixte de Recherche (UMR 9219), partenariat CNRS/ENSTA/EDF/CEA, Paris-Saclay, France.
- José Antunes Member of the Scientific Committee of the 8th International Congress on Design and Modeling of Mechanical Systems (CMSM2019), Hammamet, Tunisia, 18-20 March, 2019.
- Mendes, F. Main Reviewer of PhD Thesis – Cláudia Almeida Pires Loureiro "Regulation of epithelial chloride transport by phospho-tyrosine-initiated protein networks" PhD in Systems Biology, Faculty of Sciences, University of Lisboa, May 2019.
- Mendes, F., Member of the Life Science and Medicine Panel of Reviewers of the European Science Foundation.

- Guerreiro, J., Conference scientific committee, 3rd International Conference on Dosimetry and its Applications (ICDA-3).
- Fernandes, C., Conference scientific Committee, XVII Congresso Nacional de Medicina Nuclear.
- Management Committee (M. Almeida and L.C.J. Pereira, substitute member) of COST Action CA15128 – Molecular Spintronics, MOLSPIN (11/04/2016 - 10/04/2020).
- Membro do International Advisory Committee da series de conferências internacionais ISCOM- nternational Symposium on Crystalline Organic Metals, Superconductors and Magnets (Manuel Almeida)
- Membro da Comissão Científica Internacional da “International Conference on Solid Compounds of Transition Elements” (2010-data), A.P. Gonçalves.
- Membro Associado do “Laboratory on Direct Energy Conversion and Nanoengineering of Thermoelectric Structures”, St. Petersburg National Research University of Information Technologies, Mechanics and Optics, St. Petersburg, Russian Federation (2013-data) , A.P. Gonçalves.
- Membro do Comité Científico Consultivo dos “Materials Growth and Characterization Laboratory”, Faculty of Mathematics and Physics, Charles University, Prague, Czech Republic (2015-data) , A.P. Gonçalves.
- Training Schools and Workshops Coordinator of COST Action CA15128 – Molecular Spintronics, MOLSPIN (11/04/2016 - 10/04/2020), L.C.J. Pereira.
- Short Training Scientific Missions Manager of COST Action CA15128 – Molecular Spintronics, MOLSPIN (04/06/2018-30/04/2020), L.C.J. Pereira.
- International Advisory Committee da International Conference on the Applications of the Mössbauer Effect September 2019, Dalian, China. J. C. Waerenborgh
- International Board on the Applications of the Mössbauer Effect, IBAME (representante português) since 2017, J. C. Waerenborgh
- Alves, L.C., member of the Local Organizing Committee of the 16th International Conference on Particle Induced X-ray Emission, Cultural and Congress Centre of Caldas da Rainha, 24-29 March 2019, Caldas da Rainha, Portugal.
- Cabo Verde, S. IAEA Technical Meeting on “Recent Achievement on the Removal of Biohazardous Pollutants by Radiation”, CTN-IST, Bobadela, 8-12July 2019 (Organization).
- Carreira, P.M., XII Congresso Ibérico de Geoquímica (CIG 2019), Universidade de Évora, Évora, 22 - 25 September.

- Carreira, P.M., 2nd Conference of the Arabian Journal of Geosciences. Sousse, Tunisia, 25 – 28 November.
- Valério, P., 4th Workshop Cultural Heritage & Geoprocesses, Strategic Resources and Global Change, ESRCH-C2TN Thematic Strand, CTN-IST, 12 November (organizing and scientific committee).
- Joaquim B. Branco, Member of the Directive Board of the FCT Doctoral Programme CATSUS - Catalysis and Sustainability (PD/00248/2012; <http://catsus.tecnico.ulisboa.pt>).

8.1 Representatives in Sc. Committees under the auspices of international organizations and institution

- Group of Experts under Article 31 of the EURATOM Treaty – Portuguese expert: P. Vaz (2015-2019).
- Group of Experts under Article 35 of the EURATOM Treaty – Portuguese expert: M.J. Madruga
- Group of Experts under Article 37 of the EURATOM Treaty – Portuguese expert: I. Paiva.
- OSPAR Convention – Portuguese expert: I. Paiva.
- Computational Medical Physics Working Group (CMPWG) of the American Nuclear Society (ANS). Member: P. Vaz.
- MELODI E&T Working Group. Member: P. Vaz.

8.2 Representatives in international institutions, associations and European platforms

- **MELODI** ("Multidisciplinary European Low Dose Initiative) General Assembly. IST representative: P. Vaz.
- **EURADOS** ("European Radiation Dosimetry Group) General Assembly. IST representative: P. Vaz.
- **Alliance** (European Radioecology Alliance) General Assembly. IST representative: M.J. Madruga.
- **IGD-TP** (Implementing Geological Disposal – Technology Platform). IST representative: I. Paiva.
- **NERIS-TP** (European platform on preparedness for nuclear and radiological emergency response and recovery) General Assembly. IST representative: M. Reis.

- **RENEB** (Running the European Network of Biological Dosimetry and Retrospective Physical Dosimetry). IST representative: O. Monteiro Gil.

8.3 Members of Scientific or Organizing Committees of International Conferences

- **ICDA-3** International Conference on Dosimetry and Its Applications, Lisbon, 27-31 May 2019. Members: Pedro Vaz (Chair), Eva Andrade, A. Catarina Antunes, Mariana Baptista, Ana Belchior, Ana Cravo Sá, Salvatore di Maria, Octávia Monteiro Gil, Mário Reis, Yuriy Romanets, Pedro Teles.
- **ERPW 2020** European Radiation Protection Week 2020, Estoril, 28 September-2 October 2020. Members: Pedro Vaz (Chair), Ana Catarina Antunes, Ana Belchior, Jorge Borbinha, Ana Cravo Sá, José Corisco, Salvatore di Maria, Octávia Monteiro Gil, Isabel Paiva, Mário Reis, Yuriy Romanets, Joana Santos, Pedro Teles.
- **ICRS 14/RPSD-2020** - 14th International Conference on Radiation Shielding and 21st Topical Meeting of the Radiation Protection and Shielding Division, Seattle, Washington, USA, 13-17 September 2020. Members: Pedro Vaz (Chair, Technical Programme Committee), Pedro Teles.
- **IM2020** - International Conference on Individual Monitoring of Ionising Radiation, Budapest, Hungary, 19-24 April 2020. Member: Pedro Vaz.
- **ANIMMA 2019** - International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications, Portoroz, Slovenia, 17 -21 June 2019. Member: Pedro Vaz.
- **SNA+MC2020** - Joint International Conference on Supercomputing in Nuclear Application + Monte Carlo 2020, Tokyo, Japan, 18-22 May 2020. Member: Pedro Vaz.

8.4 Conferences and Workshops Organization

CONFERENCES

- Joint Workshop between MOLSPIN and NANOCOBYBRI COST Actions, *Superconductivity meets Molecular Spins*, VIP Executive Art's Hotel, Lisboa, Portugal, 20-22 March 2019. (M. Almeida, L.C.J. Pereira).
- 3rd International Conference on Dosimetry and its Applications (ICDA-3), IST Congress Centre, Lisbon, Portugal, 27-31 May 2019. (P. Vaz-Chairman, E. Andrade, A.C. Antunes, M. Baptista, A. Belchior, A.C. Sá, S. di Maria, O.M. Gil, M. Reis, Y. Romanets, P. Teles).

- 7th Iberian Meeting on Aerosol Science and Technology (RICTA 2019), Pavillion of Knowledge – Ciência Viva, Lisbon, Portugal, 9-11 July 2019. (M. Almeida-Chairman, N. Canha, V. Martins, C. Correia, I.C. Lopes, I. Dionísio, J. Lage, R. Marques, T. Faria).
- "Synergy with Portugal", 18 e 19 de Julho de 2019, CTN, Sacavém, Loures, Portugal (Organização do ILL, IST-NM e C2TN).
- *13th International Symposium on Crystalline Organic Metals, Superconductors and Magnets*, ISCOM2019, Hotel dos Templários, Tomar, Portugal, 22-27 September 2019. (M. Almeida- Chairman, D. Belo, V. Gama, I.C. Santos, L.C.J. Pereira, S. Rabaça, R.A.L. Silva, B.J.C. Vieira, J.C. Waerenborgh).
- *EC Symposium on The Molecular Approach to Functional Materials*, Instituto Superior Técnico, 14th Outubro 2019. (M. Almeida- Chairman, D. Belo, L.C.J. Pereira, J.C. Waerenborgh).
- XIII Congresso Ibérico de Arqueometria, Universidade do Algarve, Faro, Portugal, 16-19 October 2019. (M.I. Dias, A.L. Rodrigues, I. Prudêncio; in collaboration with ACArEHB - Universidade do Algarve).

WORKSHOPS

- 4th Thematic Strand Workshop "Cultural Heritage & Geoprocesses, Strategic Resources and Global Change", IST/CTN, Pólo de Loures, Bobadela, Portugal, 12 November 2019.
- 4th Thematic Strand Workshop "Environment and new energy sources - anthropogenic impact, evaluation, treatment and recycling" and "Environmental Radioactivity and Radioecology", IST/CTN, Pólo de Loures, Bobadela, Portugal, 19 November 2019.
- Thematic Strand Workshop "Radiopharmaceutical Sciences and Health Physics", Anfiteatro Abreu Faro, IST Alameda Campus, Lisbon, Portugal, 21 November 2019.
- 3rd C²TN Workshop, Anfiteatro Abreu Faro, IST/CTN, Pólo de Loures, Bobadela, Portugal, 5 December 2019.

RESEARCH GROUPS TEAMS (STAFF AND STUDENTS)

8.5 Radiopharmaceutical Sciences Group - GCR

Name	Category	R&D (%)
António Manuel Rocha Paulo	Principal Researcher	100
João Domingos Galamba Correia	Principal Researcher	100
Célia Maria da Cruz Fernandes	Auxiliary Researcher	100
Fernanda Marujo Marques	Auxiliary Researcher	100
Filipa Fernandes Mendes	Auxiliary Researcher	100
Maria Cristina das Neves Oliveira	Auxiliary Researcher	100
Maria de Lurdes Barreia Patricio Gano	Auxiliary Researcher	100
Maria Paula Cabral Campello	Auxiliary Researcher	100
Paula Dolores Galhofas Raposinho	Auxiliary Researcher	100
Elisabete Correia	Técnica Profissional Principal	100
Elisa Palma	Contracted Researcher	100
Francisco Silva	Contracted Researcher	100
Joana Filipa Fernandes Guerreiro ¹	Contracted Researcher	87.5
Rita Lourenço Paiva de Melo Galvão	Contracted Researcher	100
Alice D'Onofrio	PhD Student	100
João Miguel Franco Machado	PhD Student	50
Vera Filipa Cerqueira Ferreira	PhD Student	100
Rúben Diogo Marques da Silva	Research Fellow	100
Carolina Isabel Compõete Mendes	MSc Student	100
Catarina Isabel Guilherme Pinto	MSc Student	100
Diogo Figueiredo ²	MSc Student	100
Joana Pinto dos Santos	MSc Student	100
Sofia Batanete	MSc Student	40

¹ 12.5% at the GPSR;

² 50% dedication at the GPSR.

8.6 Radiation Protection and Safety Group - GPSR

Name	Category	R&D (%)
Pedro Vaz	Researcher (Group Coordinator)	90
Isabel Paiva	Researcher	80
Mário Capucho dos Reis	Researcher	50
Maria José Madruga	Researcher	40
José Alberto Corisco	Researcher	40
Octávia Monteiro Gil	Researcher	90
Pedro Teles	Researcher	100
Isabel F. Gonçalves	Researcher	100
Nuno Teixeira	Researcher / Collaborator ¹	30
Joana Santos	Researcher / Collaborator ²	30
Maria dos Anjos Neves	Researcher (retiree) / Collaborator	-
Carlos Oliveira	Researcher (retiree) / Collaborator	-
Marta Guimarães Santos	Senior Technician (with Ph.D.)	40
Yuriy Romanets	Senior Technician (with Ph.D.)	40
Ana Belchior	Post-Doc fellow / researcher ³	100
Salvatore di Maria	Post-Doc fellow / researcher ⁴	100
Javier Garcia Rivas	Post-Doc fellow ⁵	50
Isabel Almeida	Post-Doc fellow ^{6,7}	100
Joana Guerreiro	Post-Doc fellow	50 ⁸
Margarida Caldeira	Research Fellow (BI) – (with Ph.D.)	30
Mariana Baptista	Research Fellow (BI) – Ph.D. student	100
Jorge Borbinha	Research Fellow (BI) – Ph.D. student	100
Ana Catarina Antunes	Research Fellow (BI)	10 ⁹
Eva Andrade	Senior Technician (IST, services)	30

¹ Main affiliation: Escola Superior de Tecnologia de Saúde de Lisboa

² Main affiliation: Escola Superior de Tecnologia de Saúde de Coimbra

³ Started junior researcher contract (DL 57) in January

⁴ Started junior researcher contract (DL 57) in June

⁵ The remaining 50% with the NET Group of C2TN

⁶ From September onwards

⁷ Coordinator of the C2TN's Task Force on Proton Therapy and Research

⁸ Until March - the remaining time was with RS Group of C2TN

⁹ The remaining 90% with the Outreach Group of C2TN

Paula Madeira	Radiographer (CHLC) - collaborator	-
Ana Cravo Sá	Ph.D. student	50
Luís Cabeça Marques ¹⁰	Ph.D. student	-
Pedro Gomes ¹¹	Ph.D. student	-
Catarina Inácio	MSc student (thesis concluded in December)	-
Filipa Jerónimo	MSc student (thesis concluded in December)	-
David Ferreira	MSc student (thesis concluded in December)	-
Ana Raquel Martins	MSc student (thesis concluded in December)	-
Pedro Capelinha	MSc student (thesis concluded in December)	-
Ana Filipa Inácio	MSc student (thesis on-going)	-
Diogo Loureiro	MSc student (thesis on-going)	-

¹⁰ Main affiliation: Air Force Academy

¹¹ Main affiliation: Instituto Soldadura e Qualidade

8.7 Radiation, Elements and Isotopes Group - GREI

Name	Category	R&D (%)
Maria de Fátima Araújo	Principal Researcher (Group Coordinator)	100
António Manuel Monge Soares	Principal Researcher (retiree)	50
António Nazareth Falcão	Principal Researcher	100
Fernanda Maria Amaro Margaça	Principal Researcher	100
Luís Manuel Cerqueira Alves	Auxiliar Researcher	70
Luís Miguel Mota Ferreira	Auxiliar Researcher	100
Paula Maria Carreira Paquete	Auxiliar Researcher	90
Pedro M. F. Valério	Auxiliar Researcher	90
Sandra Cabo Verde	Auxiliar Researcher ¹	100
Victoria Corregidor	Auxiliar Researcher ²	100
Maria Helena Casimiro	ResearcherDL 57 ³	100
Pedro Santos	Researcher DL57 ⁴	100
Susana Sousa Gomes	Post-Doc Researcher	100
Dina André	Graduated technician	100
António Amaro	Senior technician	100
Helena Marcos	Senior technician	100
Manuela Correia	Senior technician	100
Rute Pinheiro	Senior technician	100
Ana Monteiro	Ph.D. student (teacher at ESTeSL)	collaborator
Joana Madureira	Ph.D. student	100
Paula Alexandra Rodrigues	Ph.D. student	50
Rute Flávia Chaves	Ph.D. student	50
Paulo Portela	Research Fellow (M.Sc)	100

¹Post-Doc Researcher until October, 10.

²Post-Doc Researcher until June, 19.

³Post-Doc Researcher....

⁴Post-Doc Researcher until May, 19.

8.8 Nuclear Engineering and Techniques Group - ETN

Name	Category	R&D (%)
Maria Isabel Dias	Principal Researcher (with Habilitation) – Group Coordinator	70
José Marques	Coordinator Researcher	30
Maria Isabel Prudêncio	Coordinator Researcher	80
Ulrich Wahl	Principal Researcher (with Habilitation)	100
Nuno Barradas	Principal Researcher (with Habilitation)	10
João Guilherme Martins Correia	Principal Researcher	100
José Antunes	Principal Researcher	100
Andreas Kling	Auxiliary Researcher (with Habilitation)	30
Raquel Crespo	Associated Professor (with Habilitation)	60
Ana Cristina Fernandes	Researcher Contract	100
Augusto D. Oliveira	Auxiliary Researcher	30
João Alves	Auxiliary Researcher	30
Marta Almeida	Auxiliary Researcher	70
Miguel A. Reis	Auxiliary Researcher	80
Miguel Felizardo	Auxiliary Researcher (invited)	30
Rosa Marques	Auxiliary Researcher	90
Thomas Girard	Auxiliary Researcher (retired on 31/01/2018)	100
Nuno Canha	Contract	100
P. Cristina Chaves	Researcher Contract	100
Ana Luisa Rodrigues	Post-doc Researcher	100
Joana Coutinho	Post-doc Researcher	50
Joana Lage	Post-doc Researcher	50
Javier Garcia Rivas	Post-doc Researcher	50
Tomoko Alice Morlat ²	Post-doc Researcher	50
Vânia Martins	Contract (scientific job)	100
Margarita Evtyugina	External Collaborator (with Ph.D.)	-
Marina Almeida Silva	External Collaborator (with Ph.D.)	-
Vincent Debut	Collaborator (with Ph.D.) (UNL)	40
Joana Pereira	Graduate Technician	30
Filipe Soares	Research fellow (BI) (M.Sc.)	100
Abel Fenta	Ph.D. student	100
Ahmad Baklouti	Ph.D. student (Sfax University, Tunisia)	50
Ângelo Costa	Post-doc Researcher CERN – collaborator	15

5/4/2020

Carlos Amorim	Ph.D. student	100
Chaima Boussollaa	Ph.D. student (Sfax University, Tunisia)	50
Eric Bosne	Ph.D. student	100
Estela Vicente	External Collaborator (with Ph.D.)	-
Majdi Yangui	Ph.D. student (Sfax University, Tunisia)	50
Miguel Carvalho	Ph.D. student (UNL)	25
Tiago Faria	Ph.D. student	100
Vitor Manteigas	Ph.D. student	100
Carolina Correia	M.Sc. – fellow LIFE Index-Air	100
Inês Lopes	Ph.D. student	100
Marta Reis	M.Sc. student	100
Carla Reis		50
Catarina Nunes	B.Sc. student	100
Marcelo Barbosa	Ph.D. Student	50
Marco Dionisi	M.Sc. student	100
João Ascensão	M.Sc. student	100
Raquel Pimenta	M.Sc. student	100
Filipa Garcia	M.Sc. student	100
Maria Leonor Abecassis	M.Sc. student	100
Ana Rita Justino	M.Sc. student	100
Elmahdi Amar	Project Scholarship (20% INESC)	80

8.9 f-Element Chemistry Group - QEf

Name	Category	R&D (%)
João Paulo Leal	Auxiliary Researcher with Abilitation	90
Joaquim Marçalo	Principal Researcher	90
Joaquim B. Branco	Auxiliary Researcher	90
José Manuel Carretas	Auxiliary Researcher	90
Leonor Maria	IST-ID Contract	100
Bernardo Monteiro	IST-ID Contract	100
Ana C. Ferreira	Junior Researcher	100
Sandrina Oliveira	Junior Researcher	100
Adelaide Cruz	Graduated Technician	100
Fábio Vieira (April to December)	Fellowship	100
Ricardo Silva (February to November)	Graduated Student	100

8.10 Solid State Group - ES

Name	Category	R&D (%)
Manuel Almeida	Coordinating Researcher	100
António Pereira Gonçalves	Coordinating Researcher	100
João Carlos Waerenborgh	Principal Researcher	100
Laura C. J. Pereira	Principal Researcher	100
Vasco da Gama	Principal Researcher	100
Isabel C. Santos	Auxiliary Researcher	100
Elsa B. Lopes	Auxiliary Researcher	100
Dulce Belo	Contracted Researcher	100
Sandra Rabaça	Contracted Researcher	100
Bruno J. C. Vieira	Contracted Researcher	100
Rafaela Silva	Contracted Researcher	100
Graça Brotas	Contracted Researcher	100
Ana C. Cerdeira	Postdoctoral Researcher	100
Leonel Vieira	Senior technician	100
Mariana Velho	PhD Student	50
Joana C. Capinha de Matos	PhD Student	50
Maria A. Susano Pinheiro	PhD Student, until September	50
Patrícia da Silva Ferreira	PhD Student	50
Sanjib Chowdhury	PhD Student	100
Duarte Moço	PhD Student	100
José Malta	PhD Student	50
Daniel Alves Barcelos	PhD Student since September	50
Inês Moraes da Costa	PhD Student since September	50
Juliana Gonçalves Araújo	PhD Student since September	50
Helena Ferreira	MSc Student, until July	100
Afonso Varatojo	Grant Holder, since November	100
Rodrigo Coelho	Grant Holder, since May	100
Florent Fournier	Erasmus Student, between May/July	100
Alain Binvignat	Erasmus Student, between June/ October	100