

Orlando Teodoro
Full Professor
DF – Departamento de Física
CeFITec – Centro de Física e Investigação Tecnológica
Email: odt@fct.unl.pt



Research interests

Engineering physics
Industrial vacuum processes
Design of scientific instruments
Cork & TCA
Applied surface science and surface characterization
Charged particles optics

Employment

Full Professor

DF – Departamento de Física
Universidade NOVA de Lisboa
Portugal
11 Dec 2020 → present

Scientific Coordinator

Full Professor
CeFITec – Centro de Física e Investigação Tecnológica
Universidade NOVA de Lisboa
Portugal
15 Jan 2020 → present

Qualifications

Engenharia Física. Especialidade: Física Aplicada, Doctorate, Observando Superfícies, Universidade NOVA de Lisboa
Award Date: 1 Oct 1998

23 Sept 2019 → ... Técnico Responsável de Instalações Eléctricas DGEG

15 Jun 2008 → ... Level 3, Non-Destructive Testing - Leak testing

23 Jun 1995 → ... Membro efectivo da Ordem dos Engenheiros

Activities

Amorim Cork Scientific Consultant

Orlando Teodoro (Consultant)
2017 → ...

Vacuum (Journal)

Orlando Manuel Neves Duarte Teodoro (Editor)
Dec 2015

Vacuum (Journal)

Orlando Manuel Neves Duarte Teodoro (Guest editor)
1 Jan 2009

Non Destructive Testing Inspector

Orlando Teodoro (Main Examiner)

2008

IUVSTA (External organisation)

Orlando Teodoro (Member)

2005

Director of METROVAC Laboratory for Vacuum Technology and Metrology, holding ISO 17025 accreditation for calibrations and testing

Orlando Teodoro (Recipient)

2002 → ...

Research output

Plasma-enabled growth of vertically oriented carbon nanostructures for AC line filtering capacitors

Bundaleska, N., Felizardo, E., Santhosh, N. M., Upadhyay, K. K., Bundaleski, N., Teodoro, O. M. N. D., Botelho do Rego, A. M., Ferraria, A. M., Zavašnik, J., Cvelbar, U., Abrashev, M., Kissovski, J., Mão de Ferro, A., Gonçalves, B., Alves, L. L., Montemor, M. F. & Tatarova, E., 15 Dec 2024, In: Applied Surface Science. 676, 12 p., 161002.

The role of coatings on the sealing of cork stoppers

Fonseca, A. P., Adame, C. F. & Teodoro, O. M. N. D., Oct 2024, In: Journal of Food Engineering. 378, 8 p., 112114.

Enhancing charge storage capacity of cellulose-sweat-based electrolyte flexible supercapacitors with electrochemically exfoliated free-standing carbon yarn electrodes

Rafique, A., Ferreira, I., Bundaleski, N., Teodoro, O. M. N. D. & Baptista, A. C., Sept 2024, In: FlatChem. 47, 11 p., 100724.

Cylindrical hot cathode ionisation gauge – Construction and testing

Silva, R. A. S., Bundaleski, N., Jenninger, B. & Teodoro, O. M. N. D., Jul 2024, In: Vacuum. 225, 7 p., 113274.

Advancing hydrogen leak detection: Design and calibration of reference leaks

Ferreira, O., Fonseca, A., Adame, C. F., Bundaleski, N., Robinson, R. & Teodoro, O. M. N. D., 28 May 2024, In: International Journal Of Hydrogen Energy. 68, p. 1090-1096 7 p.

Plasma-enabled multifunctional platform for gram-scale production of graphene and derivatives

Dias, A., Felizardo, E., Bundaleska, N., Abrashev, M., Kissovski, J., Ferraria, A. M., Rego, A. M., Strunskus, T., Carvalho, P. A., Almeida, A., Zavašnik, J., Kovacevic, E., Berndt, J., Bundaleski, N., Ammar, M. R., Teodoro, O. M. N. D., Cvelbar, U., Alves, L. L., Gonçalves, B. & Tatarova, E., Feb 2024, In: Applied Materials Today. 36, 12 p., 102056.

Cylindrical hot cathode ionisation gauge: The concept and simulations

Silva, R. A. S., Bundaleski, N. & Teodoro, O. M. N. D., Jan 2024, In: Vacuum. 219, 11 p., 112701.

Electron ionization induced fragmentation pathways of trichloroanisole

Mendes, M., Bou-Debes, D., Eden, S., Bundaleski, N., Teodoro, O. M. N. D., Cornetta, L. M. & Ferreira da Silva, F., 27 Sept 2023, In: Physical Chemistry Chemical Physics. 25, 37, p. 25361-25367 7 p.

Thermal Desorption of 2,4,6-Trichloroanisole from Cork

Monteiro, S., Bundaleski, N., Lopes, P., Cabral, M. & Teodoro, O. M. N. D., 15 Sept 2023, In: Foods. 12, 18, 13 p., 3450.

The Role of Hydrogen Incorporation into Amorphous Carbon Films in the Change of the Secondary Electron Yield

Bundaleski, N., Adame, C. F., Alves, E., Barradas, N. P., Cerqueira, M. F., Deuermeier, J., Delaup, Y., Ferraria, A. M., Ferreira, I. M. M., Neupert, H., Himmerlich, M., Rego, A. M. M. B. D., Rimoldi, M., Teodoro, O. M. N. D., Vasilevskiy, M. & Costa Pinto, P., 20 Aug 2023, In: International Journal of Molecular Sciences. 24, 16, 20 p., 12999.

Amorphous carbon thin films: Mechanisms of hydrogen incorporation during magnetron sputtering and consequences for the secondary electron emission

Adame, C. F., Alves, E., Barradas, N. P., Costa Pinto, P., Delaup, Y., Ferreira, I. M. M., Neupert, H., Himmerlich, M., Pfeiffer, S., Rimoldi, M., Taborrelli, M., Teodoro, O. M. N. D. & Bundaleski, N., Jul 2023, In: Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films. 41, 4, 13 p., 043412.

Evaluation and metrological performance of a novel ionisation vacuum gauge suitable as reference standard

Jousten, K., Bechstein, S., Bernien, M., Boineau, F., Bundaleski, N., Illgen, C., Jenninger, B., Šetina, J., Silva, R. A. S., Stöltzel, A., M. N. D. Teodoro, O. & Wüest, M., 31 Mar 2023, In: Measurement: Journal of the International Measurement Confederation. 210, 9 p., 112552.

A contactless method to study carrier kinetics in SnS thin films

Sanguino, P., Kunst, M., Ben Mbarek, M., Reghima, M., Bundaleski, N., Teodoro, O. & Schwarz, R., Mar 2023, In: Vacuum. 209, 7 p., 111784.

Low temperature electrical transport in microwave plasma fabricated free-standing graphene and N-graphene sheets

Valcheva, E., Kirilov, K., Bundaleska, N., Dias, A., Felizardo, E., Abrashev, M., Bundaleski, N., Teodoro, O. M. N. D., Strunskus, T., Kiss'ovski, Z., Alves, L. L. & Tatarova, E., Feb 2023, In: Materials Research Express. 10, 2, 11 p., 025602.

Effect of the magnetic field on the operation of ionisation gauges

Silva, R. A. S., Bundaleski, N. & Teodoro, O. M. N. D., Oct 2022, In: Vacuum. 204, 7 p., 111339.

Novel ionisation vacuum gauge suitable as a reference standard: Influence of primary electron trajectories on the operation

Bundaleski, N., Adame, C. F., Bernien, M., Illgen, C., Jenninger, B., Jousten, K., Scuderi, F., Silva, R. A. S., Stoeltzel, A., Setina, J., Teodoro, O. M. N. D., Verbovsek, T., Vicar, M. & Wueest, M., Jul 2022, In: Vacuum. 201, 13 p., 111041.

Cross Contamination of 2,4,6: Trichloroanisole in Cork Stoppers

Monteiro, S., Bundaleski, N., Malheiro, A., Cabral, M. & Teodoro, O. M. N. D., 8 Jun 2022, In: Journal of Agricultural and Food Chemistry. 70, 22, p. 6747-6754 8 p.

Free-standing graphene-carbon as negative and FeCoS as positive electrode for asymmetric supercapacitor

Upadhyay, K. K., Bundaleska, N., Abrashev, M., Kissoovski, J., Bundaleski, N., Teodoro, O. M. N. D., de Ferro, A. M., Silva, R. P., Dias, A., Felizardo, E., Tatarova, E. & Montemor, M. F., Jun 2022, In: Journal of Energy Storage. 50, p. 1-15 15 p., 104637.

Process and equipment for the extraction of TCA from natural cork stoppers with organic liquid solvent

Teodoro, O. M. N. D., 13 Apr 2022, IPC No. B27K 7/ 00 A I, B01D11/02, Patent No. EP3980151, 13 Apr 2022, Priority date 7 Jun 2019, Priority No. PT11557219A

Electrons on a straight path: A novel ionisation vacuum gauge suitable as reference standard

Jousten, K., Bernien, M., Boineau, F., Bundaleski, N., Illgen, C., Jenninger, B., Jönsson, G., Šetina, J., Teodoro, O. M. N. D. & Vičar, M., Jul 2021, In: Vacuum. 189, 110239.

Influence of ion induced secondary electron emission on the stability of ionisation vacuum gauges

Figueiredo, I., Bundaleski, N., Teodoro, O. M. N. D., Jousten, K. & Illgen, C., Feb 2021, In: Vacuum. 184, 109907.

Development of a design for an ionisation vacuum gauge suitable as a reference standard

Jenninger, B., Anderson, J., Bernien, M., Bundaleski, N., Dimitrova, H., Granovskij, M., Illgen, C., Setina, J., Jousten, K., Kucharski, P., Reinhardt, C., Scuderi, F., Silva, R., Stöltzel, A., Teodoro, O. M. N. D., Trzpił-Jurgielewicz, B. & Wüest, M., Jan 2021, In: Vacuum. 183, 109884.

Microwave transient reflection in annealed SnS thin films

Ben Mbarek, M., Reghima, M., Yacoubi, N., Barradas, N., Alves, E., Bundaleski, N., Teodoro, O., Kunst, M. & Schwarz, R., Jan 2021, In: Materials Science in Semiconductor Processing. 121, 105302.

Process and equipment for the extraction of TCA from natural cork stoppers with organic liquid solvent

Manuel Neves Duarte Teodoro, O., 10 Dec 2020, IPC No. B27K 7/ 00 A I, B27K7/00, Patent No. WO2020245807, 7 Jun 2020, Priority date 7 Jun 2019, Priority No. PT20190115572

Processo e equipamento para extração de TCA de rolhas de cortiça natural com solvente orgânico líquido

Teodoro, O. M. N. D., 7 Dec 2020, IPC No. B67B 1/ 03 A I, B27K7/00, B67B1/03, Patent No. PT115572, 7 Jun 2019, Priority date 7 Jun 2019, Priority No. PT20190115572

Prospects for microwave plasma synthesized N-graphene in secondary electron emission mitigation applications

Bundaleska, N., Dias, A. M., Bundaleski, N., Felizardo, E., Henriques, J., Tsyganov, D., Abrashev, M. V., Valcheva, E. P., Kissovski, J., Ferraria, A. M., do Rego, A. M. B., Almeida, A., Zavašnik, J., Cvelbar, U., Teodoro, O. M. N. D., Strunskus, T. & Tatarova, E., 1 Dec 2020, In: Scientific Reports. 10, 1, 13 p., 13013.

A review on hot cathode ionisation gauges with focus on a suitable design for measurement accuracy and stability

Jousten, K., Boineau, F., Bundaleski, N., Illgen, C., Setina, J., Teodoro, O. M. N. D., Vicar, M. & Wüest, M., Sept 2020, In: Vacuum. 179, 109545.

XPS measurements of air-exposed Cd(Zn)_{1-x}Fe_xTe_{1-y}Se_y surfaces revisited

Medić Ilić, M., Bundaleski, N., Ivanović, N., Teodoro, O. M. N. D., Rakočević, Z., Minić, D., Romčević, N. & Radisavljević, I., Jun 2020, In: Vacuum. 176, 109340.

XPS and FTIR studies of DC reactive magnetron sputtered TiO₂ thin films on natural based-cellulose fibers

Eleutério, T., Sérgio, S., Teodoro, O. M. N. D., Bundaleski, N. & Vasconcelos, H. C., 20 Mar 2020, In: COATINGS. 10, 3, 287.

Low total electron yield graphene coatings produced by electrophoretic deposition

Aguincha, R., Bundaleski, N., Bundaleska, N., Novaković, M., Henriques, J., Rakočević, Z., Tatarova, E. & Teodoro, O. M. N. D., 28 Feb 2020, In: Applied Surface Science. 504, 143870.

Free-standing N-Graphene as conductive matrix for Ni(OH)₂ based supercapacitive electrodes

Upadhyay, K. K., Bundaleska, N., Abrashev, M. V., Bundaleski, N., Teodoro, O. M. N. D., Fonseca, I., de Ferro, A. M., Silva, R. P., Tatarova, E. & Montemor, M. D. F., 20 Feb 2020, In: Electrochimica Acta. 334, 135592.

Projeto de equipamento industrial para extração de TCA de rolhas de cortiça natural

Rossa, M. R. D. S. S. & Teodoro, O. M. N. D., 2020

Process for the extraction of volatile contaminants from cork by thermal desorption

Teodoro, O. M. N. D., 4 Dec 2019, IPC No. B27K 7/ 00 A I, B27K5/00, Patent No. EP3573798, 26 Aug 2019, Priority date 26 Jan 2017, Priority No. IB2018050259W; PT10987817A

Nanocomposite thin films based on Au-Ag nanoparticles embedded in a CuO matrix for localized surface plasmon resonance sensing

Proença, M., Borges, J., Rodrigues, M. S., Meira, D. I., Sampaio, P., Dias, J. P., Pedrosa, P., Martin, N., Bundaleski, N., Teodoro, O. M. N. D. & Vaz, F., 1 Aug 2019, In: Applied Surface Science. 484, p. 152-168 17 p.

3D-Simulation of a Bayard Alpert ionisation gauge using SIMION program

Silva, R., Bundaleski, N., Fonseca, A. L. & Teodoro, O. M. N. D., 1 Jun 2019, In: Vacuum. 164, p. 300-307 8 p.

Conception et caractérisation des fuites d'étalonnage de frigorigène

Fonseca, A. L. & Teodoro, O. M. N. D., 1 Apr 2019, In: International Journal of Refrigeration. 100, p. 463-470 8 p.

Local, electronic and surface structure of multi-component Fe-doped CdTe(S) systems

Bundaleski, N., Radisavljević, I., Ivanović, N., Rakočević, Z., Medić Ilić, M., Romčević, N. & Teodoro, O. M. N. D., 1 Mar 2019, In: Surface Science. 681, p. 76-86 11 p.

Pressure evolution inside a cork stopper under vacuum

Bundaleski, N., Fonseca, A. L. & Teodoro, O. M. N. D., 1 Mar 2019, In: Vacuum. 161, p. 375-382 8 p.

XPS analysis of ZnO:Ga films deposited by magnetron sputtering: Substrate bias effect

Correia, F. C., Bundaleski, N., Teodoro, O. M. N. D., Correia, M. R., Rebouta, L., Mendes, A. & Tavares, C. J., 15 Nov 2018, In: Applied Surface Science. 458, p. 1043-1049

Process for the extraction of volatile contaminants from cork by thermal desorption

Teodoro, O. M. N. D., 2 Aug 2018, IPC No. B27K 7/ 00 A I, B27K5/00, Patent No. WO2018138599, 16 Jan 2018, Priority date 26 Jan 2017, Priority No. PT20170109878

Processo de extração de contaminantes voláteis da cortiça por dessorção térmica

Orlando, M. N. D. T., 26 Jul 2018, IPC No. B27K 7/ 00 A I, B67B1/03, Patent No. PT109878, 26 Jan 2017, Priority date 26 Jan 2017, Priority No. PT20170109878

Development of Au/CuO nanoplasmonic thin films for sensing applications

Proença, M., Borges, J., Rodrigues, M. S., Domingues, R. P., Dias, J. P., Trigueiro, J., Bundaleski, N., Teodoro, O. M. N. D. & Vaz, F., 15 Jun 2018, In: Surface and Coatings Technology. 343, p. 178-185 8 p.

Monitoring dynamics of different processes on rutile TiO₂(110) surface by following work function change

Trigueiro, J., Bundaleski, N. & Teodoro, O. M. N. D., 1 Jun 2018, In: Vacuum. 152, p. 327-329 3 p.

Functionalization of polymer surfaces by medium frequency non-thermal plasma

Felix, T., Trigueiro, J. S., Bundaleski, N., Teodoro, O. M. N. D., Sério, S. & Debacher, N. A., 15 Jan 2018, In: Applied Surface Science. 428, p. 730-738 9 p.

XPS spectrometer transmission function optimization by the differential evolution algorithm

Trigueiro, J., Lima, W., Bundaleski, N. & Teodoro, O. M. N. D., 1 Jan 2018, In: Journal of Electron Spectroscopy and Related Phenomena. 222, p. 122-132 11 p.

Towards large-scale in free-standing graphene and N-graphene sheets

Tatarova, E., Dias, A., Henriques, J., Abrashev, M., Bundaleska, N., Kovacevic, E., Bundaleski, N., Cvelbar, U., Valcheva, E., Arnaudov, B., Do Rego, A. M. B., Ferraria, A. M., Berndt, J., Felizardo, E., Teodoro, O. M. N. D., Strunskus, T., Alves, L. L. & Gonçalves, B., 31 Aug 2017, In: Scientific Reports. 7, 1, 10175.

Surface composition of Cd_{1-x}Fe(Mn)_xTe_{1-y}Se_y systems exposed to air

Bundaleski, N., Radisavljević, I., Trigueiro, J., Tolstogouzov, A., Rakočević, Z., Medić, M., Teodoro, O. M. N. D., Romčević, N. & Ivanović, N., 1 Mar 2017, In: Materials Chemistry And Physics. 189, p. 35-43 9 p.

The role of different minerals from red mud assemblage in Co(II) sorption mechanism

Milenković, A. S., Smičiklas, I. D., Bundaleski, N., Teodoro, O. M. N. D., Veljović, D. N. & Vukelić, N. S., 5 Nov 2016, In: Colloids And Surfaces A-Physicochemical And Engineering Aspects. 508, p. 8-20 13 p.

Vacuum solid-state ion-conducting silver source for application in field emission electric propulsion systems

Tolstogouzov, A., Aguas, H., Ayouchi, R., Belykh, S. F., Fernandes, F., Gololobov, G. P., Moutinho, A. M. C., Schwarz, R., Suvorov, D. V. & Teodoro, O. M. N. D., 1 Sept 2016, In: Vacuum. 131, p. 252-258 7 p.

The Permeation of Cork Revisited

Teodoro, O. M. N. D., 25 May 2016, In: Journal of Agricultural and Food Chemistry. 64, 20, p. 4182-4184 3 p.

Surface modifications on as-grown boron doped CVD diamond films induced by the B₂O₃-ethanol-Ar system

Neto, M. A., Pato, G., Bundaleski, N., Teodoro, O. M. N. D., Fernandes, A. J. S., Oliveira, F. J. & Silva, R. F., 1 Apr 2016, In: Diamond and Related Materials. 64, p. 89-96 8 p.

Comprehensive studies of structural, electronic and magnetic properties of Zn_{0.95}Co_{0.05}O nanopowders

Radisavljević, I., Novaković, N., Matović, B., Paunović, N., Medić, M., Bundaleski, N., Andrić, V. & Teodoro, O. M. N. D., 1 Feb 2016, In: Materials Research Bulletin. 74, p. 78-84 7 p.

Production of N-graphene by microwave N₂-Ar plasma

Dias, A. M., Bundaleski, N., Tatarova, E., Morgado-Dias, F., Abrashev, M., Cvelbar, U., Teodoro, O. M. N. D. & Henriques, J. A. P., 7 Jan 2016, In: Journal Of Physics D-Applied Physics. 49, 5, 055307.

Calculation of the angular dependence of the total electron yield

Bundaleski, N., Belhaj, M., Gineste, T. & Teodoro, O. M. N. D., 1 Dec 2015, In: Vacuum. 122, p. 255-259 5 p.

Editorial

Teodoro, O. M. N. D., Thornton, G. & Cavaleiro, A., 1 Dec 2015, In: Vacuum. 122, p. 243-244 2 p.

Sn-deficiency in the electrodeposited ternary Cu_xSn_yS_z thin films by ECALE

Caporali, S., Tolstogouzov, A., Teodoro, O. M. N. D., Innocenti, M., Di Benedetto, F., Cinotti, S., Picca, R. A., Sportelli, M. C. & Cioffi, N., Jul 2015, In: Solar Energy Materials and Solar Cells. 138, p. 9-16 8 p.

XAFS and XPS analysis of Zn_{0.98}Fe_{0.02}Te_{0.91}Se_{0.09} semiconductor

Radisavljević, I., Trigueiro, J., Bundaleski, N., Medić, M., Romčević, N., Teodoro, O. M. N. D., Mitrić, M. & Ivanović, N., 25 May 2015, In: Journal of Alloys and Compounds. 632, p. 17-22 6 p.

Efficient Field Emission from Vertically Aligned Cu₂O-δ(111) Nanostructure Influenced by Oxygen Vacancy

Nandy, S., Thapa, R., Kumar, M., Som, T., Bundaleski, N., Teodoro, O. M. N. D., Martins, R. F. D. P. & Fortunato, E. M. C., 11 Feb 2015, In: Advanced Functional Materials. 25, 6, p. 947-956 10 p.

Ion-beam sources based on room-temperature ionic liquids for aerospace applications, nanotechnology, and microprobe analysis (review)

Tolstogouzov, A. B., Belykh, S. F., Gurov, V. S., Lozovan, A. A., Taganov, A. I., Teodoro, O. M. N. D., Trubitsyn, A. A. & Chenakin, S. P., Jan 2015, In: Instruments And Experimental Techniques. 58, 1

Ion-plasma treatment of reed switch contacts: A study by time-of-flight secondary ion mass spectrometry

Tolstogouzov, A. B., Drozdov, M. N., Zeltser, I. A., Arushanov, K. A. & Teodoro, O. M. N. D., 12 Dec 2014, In: Journal Of Analytical Chemistry. 69, 13, p. 1245-1251 7 p.

Vacuum physics applied to the transport of gases through cork

Teodoro, O. M. N. D., Fonseca, A. L., Pereira, H. S. & Moutinho, A. M. C., Nov 2014, In: Vacuum. 109, p. 397-400

Magnetic gold nanocatalyst (nanocat-Fe-Au): Catalytic applications for the oxidative esterification and hydrogen transfer reactions

Gawande, M. B., Rathi, A. K., Tucek, J., Safarova, K., Bundaleski, N., Teodoro, O. M. N. D., Kvitek, L., Varma, R. S. & Zboril, R., Sept 2014, In: Green Chemistry. 16, 9, p. 4137-4143 7 p.

Iron oxide-supported copper oxide nanoparticles (nanocat-Fe-CuO): Magnetically recyclable catalysts for the synthesis of pyrazole derivatives, 4-methoxyaniline, and ullmann-type condensation reactions

Shelke, S. N., Bankar, S. R., Mhaske, G. R., Kadam, S. S., Murade, D. K., Bhorkade, S. B., Rathi, A. K., Bundaleski, N., Teodoro, O. M. N. D., Zboril, R., Varma, R. S. & Gawande, M. B., 7 Jul 2014, In: ACS Sustainable Chemistry & Engineering. 2, 7, p. 1699-1706 8 p.

Magnetically recyclable magnetite-palladium (Nanocat-Fe-Pd) nanocatalyst for the Buchwald-Hartwig reaction

Sa, S., Gawande, M. B., Velinho, A. J. D. C., Veiga, J. P. B., Bundaleski, N., Trigueiro, J., Tolstogouzov, A., Teodoro, O. M. N. D., Zboril, R., Varma, R. S. & Branco, P. C. D. S., Jul 2014, In: Green Chemistry. 16, 7, p. 3494-3500

Zinc Oxynitride Films Prepared by Pulsed Laser Deposition

Ayouchi, R., Melo, L. S. D., Bhattacharyya, S. R., Bundaleski, N., Teodoro, O., Santos, L. & Schwarz, R., 1 Jan 2014, In: *Procedia Technology*. 17, p. 303-309 7 p.

Experimental investigation of the influence of electron incidence angle on the Total Electron Emission Yield of silver

Gineste, T., Belhaj, M., Bundaleski, N., Teodoro, O. M. N. D., Pons, C., Puech, J. & Balcon, N., May 2013, p. 1-2.

Gas transport through cork: Modelling gas permeation based on the morphology of a natural polymer material

Ferreira, C. M. C. G. B. D. B., Fonseca, A. P., Pereira, H., Teodoro, O. M. N. D. & Crespo, J. G., 1 Feb 2013, In: *Journal of Membrane Science*. 428, p. 52-62

Amorphous Carbon Coatings: Temperature Effect on Secondary Electron Yield (SEY)

Silva, A. C. G. D. & Teodoro, O. M. N. D., 1 Jan 2013

Catalytic applications of a versatile magnetically separable Fe-Mo (Nanocat-Fe-Mo) nanocatalyst

Bundaleski, N., Branco, P. C. D. S. & Teodoro, O. M. N. D., 1 Jan 2013, In: *Green Chemistry*. 15, 3, p. 682-689

Influence of the Incident Angle on Energy Dependence of a Secondary Electron Emission Yield

Bundaleski, N. & Teodoro, O. M. N. D., 1 Jan 2013, *Proceedings of the 14th IEEE International Vacuum Electronics Conference (IVEC 2013)*. Vol. 1. p. 1-2

Influence of the patch field on work function measurements based on the secondary electron emission

Moutinho, A., Bundaleski, N., Silva, A. C. G. D. & Teodoro, O. M. N. D., 1 Jan 2013, In: *Journal of Applied Physics*. 113, 18, p. nr. 183720

Ion-induced fragmentation of imidazolium ionic liquids: TOF-SIMS study

Moutinho, A., Bundaleski, N. & Teodoro, O. M. N. D., 1 Jan 2013, In: *International Journal of Mass Spectrometry*. 353, NA, p. 19-25

Permeability of Cork for Water and Ethanol

Fonseca, A. L. D. A. P. D., Brazinha, C., Pereira, H., Crespo, J. P. S. G. & Teodoro, O. M. N. D., 1 Jan 2013, In: *Journal of Agricultural and Food Chemistry*. 61, 40, p. 9672-9679

Water on TiO₂ studied by work function change: adsorption in cycles

Moutinho, A., Bundaleski, N., Silva, A. C. G. D. & Teodoro, O. M. N. D., 1 Jan 2013, *Journal of Physics Conference Series*. Vol. 417. p. nr. 012024

TOF-SIMS VG Ionex IX23LS: upgrade and application for the urinary stones analysis

Moutinho, A., Teodoro, O. M. N. D. & Tolstoguzov, A., Jan 2013, In: *Surface And Interface Analysis*. 45, 1, p. 532-536

Increase of secondary electron yield of amorphous carbon coatings under high vacuum conditions

Bundaleski, N., Silva, A. C. G. D. & Teodoro, O. M. N. D., 2013, In: *Vacuum*. 98, SI, p. 37-40

Influence of the patch field on work function study using the onset method

Bundaleski, N., Silva, A. C. G. D. & Teodoro, O. M. N. D., 2013, In: *Vacuum*. 98, SI, p. 41-44

Magnetically recyclable magnetite-ceria (Nanocat-Fe-Ce) nanocatalyst - applications in multicomponent reactions under benign conditions

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Projects

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Matos, A. S. L. V. D., Teodoro, O., Fonseca, A. L. D. A. P. D. & Moutinho, A. M. C.

Fundação para a Ciência e a Tecnologia

31/12/09 → 30/12/12

Avaliação da Permeabilidade Selectiva da Cortiça -*- Evaluation of the Selective Pearmeability of Cork

Teodoro, O., Vassilenko, V., Sousa, M. A. F. D. P. D. C. D., Moutinho, A. M. C. & Miranda, I.

Fundação para a Ciência e a Tecnologia

31/08/07 → 30/12/10

CEFITEC: Centro de Física e Investigação Tecnológica

Limão-Vieira, P., Teodoro, O., Barbosa, A. S., Tolstoguzov, A., Silva, A. G., Fonseca, A. L. D. A. P. D., Lozano Martínez, A. I., Moutinho, A. M. C., Vistas, C. A. D. R., Liang, D., Ferreira da Silva, F., Almeida, J. I. L., Ameixa, J. F. F., Mendes, M. F. D. S., Bundaleski, N., Teodoro, O., Limão-Vieira, P. & Pereira, P. J. D. S.

Fundação para a Ciência e a Tecnologia

1/01/15 → 31/12/23

Centro de Física e Investigação Tecnológica (CEFITEC)

Bundaleski, N., Liang, D., Limão-Vieira, P., Moutinho, A. M. C., Nunes, Y. F. D. S., Raposo, M. D. F. G. D. S. C., Ribeiro, P. A. M. F., Sério, S., Teodoro, O., Tolstoguzov, A. & Wemans, A. J. M. L. D. V.

Fundação para a Ciência e a Tecnologia

31/12/13 → 30/12/14

Cryogenic Temperature Stabilizers -*- Estabilizadores de Temperaturas Criogénicos

Cardoso, J. M. B. B., Catarino, M. I. & Teodoro, O.

Fundação para a Ciência e a Tecnologia

31/12/09 → 30/12/12

CERN: Efeitos induzidos pela exposição ao ar dos revestimentos usados para limitar a nuvem de electões em aceleradores

Bundaleski, N., Moutinho, A. M. C., Silva, A. G., Teodoro, O. & Tolstoguzov, A.

Fundação para a Ciência e a Tecnologia

31/12/09 → 29/06/11

Expansão e consolidação do METROVAC

Matos, A. S. L. V. D., Moutinho, A. M. C. & Teodoro, O.

Fundação para a Ciência e a Tecnologia

31/12/05 → 30/05/08

NANOSENSING: Filmes finos semicondutores do tipo nanocompósito, compostos por nanopartículas de metal nobre dispersos em matrizes reativas óxido-metal para aplicações em detetores de gases com base em ressonância de plasmões de superfície

Vilela Vaz, J. F. & Teodoro, O.

Fundação para a Ciência e a Tecnologia

1/06/16 → 31/05/18

Formação do pessoal do METROVAC

Teodoro, O.

Fundação para a Ciência e a Tecnologia

31/12/05 → 30/12/07

PRES2VAC: Industrial standards in the intermediate pressure-to-vacuum range

Teodoro, O.
European Union
1/06/15 → 31/05/18

Decarb: Metrology for Decarbonising the Gas Grid

Teodoro, O.
European Commission
1/06/21 → 31/05/24

MetCCUS: Metrology Support for Carbon Capture Utilisation and Storage

De Krom, I. & Teodoro, O.
European Union
1/10/22 → 30/09/25

NOLEAD: Novos Filmes Ferroelétricos Livres de Chumbo por PLD para Optoelectrónica (NOLEAD)

Bundaleski, N., Moutinho, A. M. C., Silva, A. G., Teodoro, O. & Tolstoguzov, A.
Fundação para a Ciência e a Tecnologia
30/11/09 → 30/05/13

PFE: Projecto em Física Experimental

Teodoro, V. M. N. D. & Teodoro, O.
Fundação para a Ciência e a Tecnologia
31/03/05 → 30/12/06

ITN: Propriedades dos portadores de carga livres e mecanismos de dopagem em materiais à base de InN

Bundaleski, N., Moutinho, A. M. C., Silva, A. G., Teodoro, O. & Tolstoguzov, A.
Fundação para a Ciência e a Tecnologia
31/12/09 → 29/06/13

Revisited cryosorption

Catarino, M. I., Bonfait, G. M. J. & Teodoro, O.
Fundação para a Ciência e a Tecnologia
31/12/06 → 30/12/09

Sputtering induced defects on surfaces and interfaces

Moutinho, A. M. C. & Teodoro, O.
Fundação para a Ciência e a Tecnologia
31/12/02 → 30/12/06

Strategic Project - UI 68 - 2011-2012

Bonfait, G. M. J., Bundaleski, N., Catarino, M. I., Ferreira, J. L. C., Franco, I. J. A., Gamboa, H. F. S., Goyri O'Neill, J., Henriques, C. M. R., Liang, D., Limão-Vieira, P., Nunes, Y. F. D. S., Raposo, M. D. F. G. D. S. C., Ribeiro, P. A. M. F., Secca, M. A. B. F., Silva, J. A. M. D. C., Silva, A. G., Sérgio, S., Teodoro, O., Tolstoguzov, A. & Vassilenko, V.
Fundação para a Ciência e a Tecnologia
31/12/10 → 30/12/12

Strategic Project - UI 68 - 2011-2013

Bonfait, G. M. J., Bundaleski, N., Catarino, M. I., Ferreira, J. L. C., Franco, I. J. A., Gamboa, H. F. S., Goyri O'Neill, J., Henriques, C. M. R., Liang, D., Moutinho, A. M. C., Nunes, Y. F. D. S., Raposo, M. D. F. G. D. S. C., Ribeiro, P. A. M. F., Secca, M. A. B. F., Silva, J. A. M. D. C., Silva, A. G., Sérgio, S., Teodoro, O., Tolstoguzov, A., Vassilenko, V. & Wemans, A. J. M. L. D. V.
Fundação para a Ciência e a Tecnologia
31/12/10 → 30/12/13

ION GAUGE: Towards a documentary standard for an ionisation vacuum gauge

Teodoro, O. & Jousten, K.

European Union

1/06/17 → 30/05/20

Universalidade dos saberes

Teodoro, O.

Fundação para a Ciência e a Tecnologia

31/05/04 → 30/05/07