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## Research interests

Surface Science  
Scientific Instruments  
Vacuum technology

## Employment

### Associate Professor

DF – Departamento de Física  
Universidade NOVA de Lisboa  
Portugal  
11 Aug 1973 → present

### Associate Professor

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11 Aug 1973 → present

## Research output

### **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

### **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 TiO<sub>2</sub>(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<sub>1-x</sub>Fe(Mn)<sub>x</sub>Te<sub>1-y</sub>Se<sub>y</sub> 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 Sep 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 B<sub>2</sub>O<sub>3</sub>-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<sub>0.95</sub>Co<sub>0.5</sub>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 N<sub>2</sub>-Ar plasma**

Dias, A., Bundaleski, N., Tatarova, E., Morgado-Dias, F., Abrashev, M., Cvelbar, U., Teodoro, O. M. N. D. & Henriques, J., 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<sub>x</sub>Sn<sub>y</sub>S<sub>z</sub> 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<sub>0.98</sub>Fe<sub>0.02</sub>Te<sub>0.91</sub>Se<sub>0.09</sub> 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 Cu<sub>2</sub>O(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**

Tolstoguzov, 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., Sep 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 and 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., Velhinho, 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

#### **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**

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 TiO<sub>2</sub> 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**

Bundaleski, N., Branco, P. C. D. S., Bonifácio, V. & Teodoro, O. M. N. D., 2013, In : Green Chemistry. 15, 5, p. 1226-1231

**Nano-MgO-ZrO<sub>2</sub> mixed metal oxides: characterization by SIMS and application in the reduction of carbonyl compounds and in multicomponent reactions**

Branco, P. C. D. S., Velhinho, A. J. D. C. & Teodoro, O. M. N. D., 2013, In : RCS Advances. 3, 11, p. 3611-3617

**Study of SEY degradation of amorphous carbon coatings**

Bundaleski, N., Candeias, S., Santos, A., Silva, A. C. G. D., Teodoro, O. M. N. D. & Silva, A. G., 2013, *E-CLOUD'12: JOINT INFN-CERN-EUCARD-ACCNET WORKSHOP ON ELECTRON-CLOUD EFFECTS*. Cimino, R., Rumolo, G. & Zimmermann, F. (eds.). Geneva: CERN, p. 149-152 (CERN Reports; no. CERN-2013-002).

**An upgraded TOF-SIMS VG Ionex IX23LS: Study on the negative secondary ion emission of III-V compound semiconductors with prior neutral cesium deposition**

Ghumman, C. A. A., Moutinho, A. M. C., Santos, A., Teodoro, O. M. N. D. & Tolstogouzov, A., 15 Jan 2012, In : Applied Surface Science. 258, 7, p. 2490-2497 8 p.

**A facile synthesis of cysteine-ferrite magnetic nanoparticles for application in multicomponent reactions-a sustainable protocol**

Branco, P. C. D. S., Velhinho, A. J. D. C. & Teodoro, O. M. N. D., 1 Jan 2012, In : Rsc Advances. 2, 15, p. 6144-6149

**A Recyclable Ferrite-Co Magnetic Nanocatalyst for the Oxidation of Alcohols to Carbonyl Compounds**

Bundaleski, N., Branco, P. C. D. S. & Teodoro, O. M. N. D., 1 Jan 2012, In : CHEMPLUSCHEM. 77, 10, p. 865-871

**Composition profiles and adhesion evaluation of conductive diamond coatings on dielectric ceramics**

Teodoro, O. M. N. D., 1 Jan 2012, In : THIN SOLID FILMS. 520, 16, p. 5260-5266

**Dynamics of water adsorption on TiO<sub>2</sub> monitored by work function spectroscopy**

Moutinho, A., Bundaleski, N., Silva, A. C. G. D. & Teodoro, O. M. N. D., 1 Jan 2012, In : Applied Surface Science. 258, 6, p. 2006-2009

**Regio- and Chemoselective Reduction of Nitroarenes and Carbonyl Compounds over Recyclable Magnetic Ferrite-Nickel Nanoparticles (Fe<sub>3</sub>O<sub>4</sub>-Ni) by Using Glycerol as a Hydrogen Source**

Bundaleski, N., Branco, P. C. D. S., Velhinho, A. J. D. C. & Teodoro, O. M. N. D., 1 Jan 2012, In : Chemistry-A European Journal. 18, 40, p. 12628-12632

**Secondary electron emission yield (SEY) in amorphous and graphitic carbon films prepared by PLD**

Teodoro, O. M. N. D., 1 Jan 2012, In : Physica Status Solidi (C) Current Topics In Solid State Physics. 9, 6, p. 1501-1503

**TOF-SIMS study of cystine and cholesterol stones**

Moutinho, A., Tolstoguzov, A. & Teodoro, O. M. N. D., 1 Jan 2012, In : Journal of mass spectrometry : JMS. 47, 5, p. 547-51

**Modelling of gas permeation based on the morphology of a natural polymer material**

Ferreira, C. M. C. G. B. D. B., Fonseca, A. P., Pereira, H., Crespo, J. P. S. G. & Teodoro, O. M. N. D., 2012, *Euromembrane Conference 2012*. Marsh, N. (ed.). Amsterdam: ELSEVIER SCIENCE BV, p. 529-531 (Procedia Engineering; vol. 44).

**Novel Approach to the Semi-Empirical Universal Theory for Secondary Electron Yield**

Bundaleski, N., Silva, A. C. G. D. & Teodoro, O. M. N. D., 1 Jan 2011, In : Scanning. 33, 4, p. 266-269

**Permeability of Cork to Gases**

Teodoro, O. M. N. D., 1 Jan 2011, In : Journal of Agricultural and Food Chemistry. 59, 8, p. 3590-3597

**Synthesis and characterization of versatile MgO-ZrO<sub>2</sub> mixed metal oxide nanoparticles and their applications**

Bundaleski, N., Branco, P. C. D. S. & Teodoro, O. M. N. D., 1 Jan 2011, In : Catalysis Science and Technology. 1, 9, p. 1653-1664

**Time-of-flight secondary ion mass spectrometric identification of calciumformate Ca(HCO<sub>2</sub>)<sub>2</sub> and metabolite of vitamin B<sub>6</sub> in human stones**

Moutinho, A., Tolstoguzov, A. & Teodoro, O. M. N. D., 1 Jan 2011, In : Rapid Communications in Mass Spectrometry. 25, 7, p. 997-999

**Effects of bias voltage on diamond like carbon coatings deposited using titanium isopropoxide (TIPOT) and acetylene/argon mixtures onto various substrate materials**

Said, R., Ghumman, C. A. A., Teodoro, O. M. N. D., Ahmed, W., Abuazza, A. & Gracio, J., 1 Apr 2010, In : Journal Of Nanoscience And Nanotechnology. 10, 4, p. 2552-2557 6 p.

**Adsorption dynamics of water on the surface of TiO<sub>2</sub> (110)**

Bundaleski, N., Silva, A. C. G. D. & Teodoro, O. M. N. D., 1 Jan 2010, *Journal of Physics: Conference Series*. p. nr. 012008

**Characterisation of Ti/Al multilayered structures with slow positron beams applying a simplified positron depth distribution model**

Naia, M. D., Gordo, P. M., Teodoro, O. M. N. D., Lima, A. P. D. & Moutinho, A. M. C., 1 Jan 2010, *Advanced Materials Forum V*. Rosa, L. G., Margarido, F., Rosa, L. G. & Margarido, F. (eds.). Trans Tech Publications Ltd, p. 1097-1101 5 p. (Materials Science Forum; vol. 636-637).

**Identification of human calculi with time-of-flight secondary ion mass spectrometry**

Vassilenko, V., Tolstoguzov, A. & Teodoro, O. M. N. D., 1 Jan 2010, In : Rapid Communications in Mass Spectrometry. 24, 2, p. 185-190

**On-line and real-time monitoring of organophilic pervaporation by mass spectrometry**

Crespo, J. P. S. G. & Teodoro, O. M. N. D., 1 Jan 2010, In : Journal of Membrane Science. 347, 1-2, p. 83-92

**The 7th Iberian Vacuum Meeting and the 5th European Topical Conference on Hard Coatings**

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**Characterisation of DLC Films Deposited Using Titanium Isopropoxide (TIPOT) at Different Flow Rates**

Teodoro, O. M. N. D., 1 Jan 2009, In : Journal Of Nanoscience And Nanotechnology. 9, 7, p. 4298-4304

**Photosensitivity of nanocrystalline ZnO films grown by PLD**

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**Production and characterization of thin Li-7 targets fabricated by ion implantation**

Jesus, M. A. D. A. P. D., Cruz, J. D. N. & Teodoro, O. M. N. D., 1 Jan 2009, In : Nuclear Instruments & Methods In Physics Research Section B-Beam Interactio. 267, 3, p. 478-481

**Tracking hydroxyl adsorption on TiO<sub>2</sub> (110) through secondary emission changes**

Teodoro, O. M. N. D., 1 Jan 2009, In : Applied Surface Science. 255, 16, p. 7389-7393

**Work function changes in the Ag deposition on TiO<sub>2</sub> (110)**

Moutinho, A. & Teodoro, O. M. N. D., 1 Jan 2008, In : Vacuum. 82, 12, p. 1425-1427

**Shaping Ag clusters on Titania**

Marques, H. P., Canário, A. R., Moutinho, A. M. C. & Teodoro, O. M. N. D., 1 Apr 2007, In : Journal Of Physics: Conference Series. 61, 1, p. 775-779 5 p., 155.

**Dual DC magnetron cathode co-deposition of (Al,Ti) and (Al,Ti,N) thin films with controlled depth composition**

Teodoro, O. M. N. D., Wemans, A. J. M. L. D. V. & Nunes, Y. F. D. S., 1 Jan 2007, In : Vacuum. 81, 11-12, p. 1503-1506

**High performance temperature controlled UHV sample holder**

Moutinho, A. & Teodoro, O. M. N. D., 1 Jan 2007, In : Review of Scientific Instruments. 78, 3, p. 035103-6

**Metal vapour source with real-time sub-monolayer control**

Moutinho, A. & Teodoro, O. M. N. D., 1 Jan 2007, In : Vacuum. 81, 11-12, p. 1529-1531

**Morphology and composition of GaN films grown by cyclic-pulsed laser deposition**

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**ZnO films grown by laser ablation with and without oxygen CVD**

Teodoro, O. M. N. D., 1 Jan 2007, In : Superlattices And Microstructures. 42, 1-6, p. 152-157

**Characterisation of metal/mould interface on investment casting of  $\gamma$ -TiAl**

Barbosa, J., Puga, H., Ribeiro, C. S., Teodoro, O. M. N. D. & Monteiro, A. C., 1 Dec 2006, In : International Journal Of Cast Metals Research. 19, 6, p. 331-338 8 p.

**Sub-surface defects induced by low energy Ar<sup>+</sup> sputtering of silver**

Naia, M. D., Gordo, P. M., Teodoro, O. M. N. D., Lima, A. P. D., Moutinho, A. M. C. & Brusa, R. S., 1 Dec 2006, *ADVANCED MATERIALS FORUM III*. Vilarinho, P. M. (ed.). PART 2 ed. Trans Tech Publications Ltd, p. 1608-1612 5 p. (Materials Science Forum; vol. 514-516, no. PART 2).

**Diffusion of critical elements in steel during thermal treatments in a diamond chemical vapour deposition atmosphere**

Neto, V. F., Vaz, R., Shokuhfar, T., Ghumman, C. A. A., Teodoro, O. M. N. D., Ali, N., Oliveira, M. S. A. & Grácio, J. J. A., 1 Jan 2006, In : Defect and Diffusion Forum. 258-260, p. 270-275 6 p.

**Evaluation of  $\gamma_2\text{O}_3$  as front layer of ceramic crucibles for vacuum induction melting of TiAl based alloys**

Barbosa, J., Ribeiro, C. S., Teodoro, O. M. N. D. & Monteiro, C., 17 Aug 2005, p. 573-584. 12 p.

**Structural and composition analysis of GaN films deposited by cyclic-PLD at different substrate temperatures**

Moutinho, A. & Teodoro, O. M. N. D., 1 Jan 2005, In : Sensors And Actuators A-Physical. 121, 1, p. 131-135

**How non-destructive is ISS?**

Teodoro, O. M. N. D. & Moutinho, A. M. C., 1 Aug 2004, In : Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms. 222, 3-4, p. 609-618 10 p.

**Characterization of TiAl alloys by secondary ion mass spectrometry**

Barbosa, J., Teodoro, O. M. N. D., Moutinho, A. M. C., Ribeiro, C. S. & Monteiro, A. C., 28 Jul 2004, In : Materials Science Forum. 455-456, p. 653-656 4 p.

**Effect of low level contamination on TiAl alloys studied by SIMS**

Teodoro, O. M. N. D., Barbosa, J., Naia, M. D. & Moutinho, A. M. C., 15 Jun 2004, In : Applied Surface Science. 231-232, SI, p. 854-858 5 p.

**Work function microscopy as a tool for materials analysis**

Teodoro, O. M. N. D. & Moutinho, A. M. C., 2 Dec 2002, In : Key Engineering Materials. 230-232, p. 165-168 4 p.

**Anomalous growth of Ba on Ag(111)**

Teodoro, O. M. N. D., Los, J. & Moutinho, A. M. C., 1 Jul 2002, In : Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films. 20, 4, p. 1379-1383 5 p.

**Characterization of a barium surface by AES, XPS and SIMS**

Teodoro, O. M. N. D. & Moutinho, A. M. C., 1 Jan 2002, In : Vacuum. 64, 3-4, p. 431-437 7 p.

**Study of the azidoacetic acid adsorption in Ag (111)-C**

Moutinho, A., Costa, M. D. L. S. L., Barros, M. T., Teodoro, O. M. N. D. & Dias, A. A., 1 Jan 2002, In : Vacuum. 64, 3-4, p. 445-450

**Compact gate valve for UHV**

Teodoro, O. M. N. D. & Moutinho, A. M. C., 28 Nov 2001, In : Vacuum. 64, 1, p. 87-90 4 p.

**Positive and negative ion emission from perfluorinated poly-ethers**

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