

Ordem de títulos – Comunicação Oral

CO.BIO.01

Study of HA Nanoparticles Internalization on SaOS-2 Cell Line by Dual Beam Microscopy

Longuinho MM, Tanaka M, Farina M, Rossi AL

CO.BIO.02

Cytotoxic Effects Of Novalurom® Insecticide In The Midgut Of The Silkworm *Bombyx mori* (Lepidoptera: Bombycidae)

Santorum M¹, Reis GH², Pedroso OC³, Brancalhão RMC³, Scudeler EL¹, Santos DC¹ - ¹Instituto de Biociências de Botucatu, UNESP, SP, Brasil - Laboratório de Insetos, Departamento de Morfologia, ²Universidade Federal do Rio de Janeiro, RJ, Brasil. - Programa de Pós-Graduação em Anatomia Patológica, ³Universidade Estadual do Oeste do Paraná, Cascavel, PR, Brasil - Centro de Ciências Biológicas e da Saúde

CO.BIO.03

Evaluation Of Different Sample Preparation Methods For Glomerular Morphological Evaluation: Coated or Uncoated?

Santos PF¹, De Souza DB¹, Torres E JL², Sampaio FJB¹, Costa WS¹, Gregorio BM¹ - ¹Universidade do Estado do Rio de Janeiro - Departamento de Anatomia, ²Universidade do Estado do Rio de Janeiro - Departamento de Microbiologia, Imunologia e Parasitologia

CO.BIO.04

Plunge freezing as a cryofixation alternative which maintains the morphological characteristics of animal tissue architecture

Dias FF¹, Kitten GT², Silva ER¹ - ¹Federal University of Minas Gerais - Microscopy Center, ²Federal University of Minas Gerais - Microscopy Center

CO.BIO.05

Dyspermic fusion protocol for androgenetic induction in the *Astyanax altiparanae* (Garutti & Britski): ultrastructural analysis

Pereira-Santos M, Yasui GS, Spandri VC, Nascimento NF, Silva RC, Senhorini JA, Nakaghi LSO

CO.BIO.06

Three-dimensional Visualization of Ion Nanodomains in Subcellular Compartments

Girard-Dias W¹, De Souza W², Miranda K² - ¹FIOCRUZ / UFRJ, ²UFRJ - IBCCF

CO.BIO.07

Calcium Silicate Hydrated Incorporated With Silver Ions For Biomaterials Application

Yoshihara NMA¹, Castro KLS, Ribeiro AR, Archanjo BS, Achete CA - ¹INMETRO - Divisão de Metrologia de Materiais

CO.BIO.08

Nanotoxicological evaluation of nano-bio interface using 3D bone cell models.

Gemini-Piperni S¹, Souza W², Archanjo BS³, Rossi AL¹, Rocha LA⁴, Borojevic R⁵, Granjeiro JM², Ribeiro AR⁶ - ¹CBPF - Laboratorio de Biomateriais, ²INMETRO - DIMAV, ³INMETRO - DIMAT, ⁴UNESP Bauru - Laboratorio de Fisica, ⁵FASE - Centro de Medicina Regenerativa, ⁶UNIGRANRIO - BIOTRANS

CO.BIO.09

The improvement of osteoblast adhesion on TiO₂ nanotubes coated with lectin from *Oreochromis niloticus*

dos Anjos KFL, de Melo JV, de Matos AB, Machado G, da Silva CDC, Coelho LCBB, de Figueiredo RCBQ¹ - ¹Instituto Aggeu Magalhães - Microbiologia/Laboratório de Biologia Celular de Patógenos

CO.BIO.10

Influence of pH on the size of gold nanoparticles synthesized using *Viola oleifera* extract

Contreras LA¹, Oliveira JP¹, Guimarães MCC¹ - ¹UFES - Morfologia

CO.BIO.11

Structural Colors in *Chalcopteryx rutilans* Male Dragonfly Wings

Valeriano WW¹, Andrade RR¹, Vasco JP¹, Neves BRA¹, Rodrigues WN¹, Guimarães PSS¹, Silva ER², Machado ABM³ - ¹UFMG - Departamento de Física, ²UFMG - Departamento de Morfologia, ³UFMG - Departamento de Zoologia

CO.BIO.12

Biom mineralization Process and Time Resolved Oxidation Biom mineralization Process and Time Resolved Oxidation Study on Magnetotactic Bacteriéria

Werckmann J^{1,2}, Cypriano J², Lefèvre CT³, Dembelé K⁴, Ersen O⁴, Bazylnski DA⁵, Lins U², Farina M² - ¹CBPF, ²UFRJ, ³CNRS/CEA, ⁴CNRS-IPCMS, ⁵University of Nevada

CO.BIO.13

Cohesive Geometry of *Cryptococcus neoformans* Adhesion Contributes to Flower-Like Biofilms Formation

Lopes W¹, Vainstein MH¹, Araújo GR², Carvajal SF², Staats CC¹, Almeida MC, Schrank A¹, Kmetzsch L¹, Vainstein MH¹ - ¹UFRGS, ²UFRJ

CO.BIO.14

High-resolution and quantitative three-dimensional Analysis of *Plasmodium chabaudi* Hemozoin Crystals

Wendt C¹, Gomes F¹, Souza W¹, Miranda K¹ - ¹Universidade Federal do Rio de Janeiro - Instituto de Biofísica Carlos Chagas Filho

CO.BIO.15

Ultrastructural Identification of Flagellar Ectosomes-Like Structures in the Protists *Tritrichomonas foetus* and *Trichomonas vaginalis*

Pereira-Neves A¹ - ¹Fiocruz Pernambuco - Instituto Aggeu Magalhães - Microbiologia

CO.BIO.16

Impact of dengue virus serotype 3 (DENV-3) infection on lung of BALB/c mice: A histopathological and ultrastructural analysis.

Caldas GC¹, Silva MAN¹, Jácome FC¹, Rasinhas AC¹, Almeida ALT¹, Barth OM¹, Barreto-Vieira DF¹ - ¹Instituto Oswaldo Cruz - Laboratório de Morfologia e Morfogênese Viral

CO.BIO.17

Ultrastructural Analysis Of Alterations Caused By A Dengue Virus Secondary Infection In BALB/c Mice Hearts

De Souza DDC¹, Jácome FC¹, Caldas GC¹, Silva MAN¹, Rasinhas AC¹, Almeida ALT¹, Barth OM¹, Barreto-Vieira DF¹ - ¹Instituto Oswaldo Cruz - Laboratório de Morfologia e Morfogênese

Viral

CO.BIO.18

Multivesicular Bodies In The Protozoan Parasite *Giardia intestinalis*: The Peripheral Vesicle Gathers One More Function

Midleij V¹, Souza W¹, Benchimol M² - ¹Universidade Federal do Rio de Janeiro - Instituto de Biofísica Carlos Chagas Filho, ²UNIGRANRIO

CO.MAT.01

Superconductivity in Bi-Ni bilayers: a High Resolution Transmission Electron Microscopy Study

Xing YT, Liu LY, Merino IC, Micklitz H, Franceschini DF, Baggio-Saitovitch E, Solórzano IG

CO.MAT.02

Using DFT and STEM for structural and electronic properties of LaAlO₃/Ge system

Arrouvel C¹, Campos APC², Mortada H³, Dentel D³, Derivaz M³, Bischoff JL³, Werckmann J⁴ - ¹UFSCar - DFQM, ²Université Aix-Marseille - CP2M, ³Université de Haute-Alsace - ISMM, ⁴UFRJ

CO.MAT.03

New Methodology Of Precipitates Characterization In 2.25Cr-1Mo Steels

Lima WF¹, de Almeida LH², Furtado HC³ - ¹Cepel - DLE, ²UFRJ - COPPE/PEMM, ³Cepel - DTE

CO.MAT.04

Microscopy Aided by Image Processing as Tools for Assessing Aging and Creep Damage in HP-Modified Steel Reformer tubes

Guimarães AV¹, Nascimento MLC¹, Araujo LS¹, Almeida LH¹, Queiroz FS¹ - ¹Universidade Federal do Rio de Janeiro/COPPE - Engenharia Metalúrgica e de Materiais

CO.MAT.05

Charaterization of the depostion of SmBaCuO superconducting ceramic on lean duplex stainless steel UNS S32304

Passos CAC¹, Lepich R, Miranda KC, Simões J, Passamai Jr JL, Orlando MTD - ¹Federal University of Espirito Santo - Physics

CO.MAT.06

Microstructural and Fractographic Analysis of AISI 317L Steel Thermally Aged at 450°C

Farneze HN¹, Tavares SSM², Pardal JM², Cunha RPC³, Vinhosa RA³, Rangel FLC³ - ¹CEFET/RJ - UnED Itaguaí - Engenharia Mecânica, ²UFF - Engenharia Mecânica, ³INT - CENANO

CO.MAT.07

Influence of Zirconium Concentration on Duplex Microstructure Formation in β/β'' -alumina Electrolytes

Rodrigues DC¹, Souza DPF¹ - ¹UFSCar - DEMa

CO.MAT.08

718 Inconel Characterization During Oxidation Assisted Intergranular Cracking by Scanning Electron Microscopy and EDS Mapping

Varela A¹, Deus HD¹, Rezende MC², Almeida LH¹ - ¹UFRJ - PEMM, ²UFF - PPGEM

CO.MAT.09

Thermal failure analysis in multilayer ceramic capacitors

Fonseca RT^{2,1}, Antonelli E¹, Matos CP² - ¹UNIFESP, ²INPE - LIT

CO.MAT.10

Quantitative characterization of nanostructured materials using TKD in SEM

Palasse L¹, Goran D¹ - ¹Bruker Nano GmbH, Am Studio 2D, 12489 Berlin, Germany

CO.MAT.11

Using EBSD to Better Describe a Cr-Mo Ferritic-Bainitic Microstructure

Pinto AL¹, Silva CL¹, Alves FP² - ¹Centro Brasileiro de Pesquisas Físicas (CBPF) - LABNANO, ²TechnipFMC - Subsea Technology Center

CO.MAT.12

Nanoscale Orientation Mapping Characterization of Nanocrystalline Phases in Metallic Alloys

Afonso CRM¹, Amigó V², Botta WJ¹, Kiminami CS¹ - ¹Universidade Federal de São Carlos (UFSCar) - Departamento de Engenharia de Materiais (DEMa), ²Universidad Politécnica de Valencia (ITM) - Departamento de Ingeniería Mecánica y de Materiales

CO.MAT.13

Orientation and Phase Mapping In the Transmission Electron Microscope Using Diffraction Spot Recognition in Several Kinds of Materials .

Jorge Jr AM¹, Coimbra DD¹, Botta WJ¹ - ¹Universidade Federal de São Carlos - Departamento de Engenharia de Materiais

CO.MAT.14

An SEM-EDS-assisted LA-ICP-MS Study of REE-Bearing Minerals From the Cerro La Tuna Tourmalinite, Paso Del Dragón Complex, Northeastern Uruguay

Garda GM¹, Andrade S¹, Sayeg IJ², Peel-Canabal E³ - ¹Instituto de Geociências da Universidade de São Paulo - Mineralogia e Geotectônica, ²Instituto de Geociências da Universidade de São Paulo - Geologia Sedimentar e Ambiental, ³Geosciences Institute, University of the Republic, Montevideo, Uruguay - Internal Geodynamics

CO.MAT.15

Effect of pH on Liquid Crystalline Interface from Crude Oil Emulsion Fractions

Duncke ACP¹, Freitas GB², Soares IF¹, Silva AB³, Barbato CN⁴, Nele M¹ - ¹Universidade Federal do Rio de Janeiro - Escola de Química, ²Universidade Federal do Rio de Janeiro - PEQ/COPPE, ³Universidade Veiga de Almeida, ⁴Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro

CO.MAT.16

SEM Imaging Applied to U-Pb Geochronology in Zircon of Espera Feliz Region: Ages of Protoliths, Magmatism and Metamorphism

Cardoso LMC¹, Geraldés MC¹, Bonifácio JF¹, Tavares AD², Alves MI¹, Rodrigues IR¹ - ¹UERJ - FGEL, ²UERJ

CO.MAT.17

Automatic Characterization of Iron Ore through Image Processing and Analysis

Iglesias JCA¹, Paciornik S¹, Augusto KS¹, Gomes OFM², Domingues ALA³, Casagrande C⁴ -

¹PUC-Rio - DEQM, ²CETEM - SCT, ³Vale - CTF, ⁴Vale - DIPE

CO.MAT.18

Microestrutural Evolution of Nickel-Based Superalloy Processed By Equal-Channel Angular Pressing (ECAP)

Dias RAF¹, Monteiro WA¹ - ¹Instituto de Pesquisas Energéticas e Nucleares

CO.MAT.19

EELS 3D Tomography of Plasmonic Nanoantennas

Archanjo BS¹ - ¹Inmetro - Dimat

CO.MAT.20

Nanostructured Alpha-NiCe Mixed Hydroxide Electrodes for Sensitive Amperometric Prednisone Sensors

Gonçalves J M¹, Guimarães RR¹, Brandão BBNS¹, Saravia LPH¹, Saravia LPH¹, Rossini PO¹, Bernades JS², Bertotti M¹, Agnes L¹, Araki K¹ - ¹USP, ²LNNano/CNPEM

CO.MAT.21

Structural and Morphological Characterization of Ag/TiO₂ Nanocomposites Using High Resolution Transmission Electron Microscopy

Gomes GHM, Mohallem NDS¹ - ¹Universidade Federal de Minas Gerais - Química

CO.MAT.22

Magnetic Vortices in Nanostructures Made by Lithography

Sampaio LC¹, Brandão J¹, Froes D¹, Ramon P¹, Soledade P¹, Pinto A¹, Garcia F, Sinnecker JP¹ - ¹CBPF

CO.MAT.23

Electron Beam Induced Current Characterization of Dye Sensitized Solar Cells

Lima CF¹, Kohlrausch EC², Santos ML², Vasconcellos MA¹ - ¹UFRGS - Instituto de Física, ²UFRGS - Instituto de Química

CO.MAT.24

3D X-Ray Microscopy Analysis of Nanocomposite Bamboo with Different Silver Nanofillers

Pandoli O, Martins RS, Paciornik S, Mauricio MHP, Barbosa BA, Valiente H, Letichevski S, Koller SML, Ghavami K

CO.MAT.25

Porosity Characterization of Iron Ore Pellets by X-Ray Microtomography

Augusto KS¹, Paciornik S¹ - ¹PUC-Rio - DEQM

CO.MAT.26

Study of Iron Sulfide Phases Formation with Russian Doll Sulfurization Apparatus

Silva MFO¹, Souza LP¹, de Oliveira S¹, Ferlauto AS¹, Rodrigues WN^{1,2} - ¹UFMG - Departamento de Física/ICEX, ²UFMG - Centro de Microscopia

CO.MAT.27

Niobium Addition on Ti-Nb Alloys anodized: Effect on the Microstructure and Nanotubes Growth

da Luz AR¹, Kuroda PB², Lepienski CM¹, Grandini CR², Kuromoto NK¹ - ¹UFPR, ²Unesp

CO.MAT.28

Casting, Rolling and Friction Stir Welding in Magnesium alloys with Mischmetal Addition

Silva EP¹, Alfaro U², Ferrinho VP³, Requena GC², Pinto HC¹ - ¹Universidade de São Paulo - Engenharia de Materiais, ²Centro Aerospacial Alemão (DLR) - Instituto de Pesquisa de Materiais, ³Centro Nacional de Pesquisa em Energia e Materiais - Laboratório Nacional de Nanotecnologia (LNNano)

CO.MAT.29

Influence of Processing Routes on δ Phase Precipitation, Grain Boundary Character Distribution and Grain Size of Superalloy 718

Medeiros MAR¹, Guimarães AV¹, Pinto AL², Araujo LS¹ - ¹Universidade Federal do Rio de Janeiro/ Coppe - Programa de Engenharia Metalúrgica e de Materiais, ²Centro Brasileiro de Pesquisas Físicas - Laboratório Multiusuário de Nanociências e Nanotecnologia

CO.MAT.30

Phase Characterization of AlFeCrNiCoBx High Entropy Alloys with Minor Boron Content

Zepón G¹, Coimbra DD², Ferrari V¹, Wolf W¹, Botta WJ¹ - ¹UFSCar - DEMa, ²UFSCar - PPG-CEM

CO.MAT.31

Retained Austenite Volume Fraction in 52100 Steel Determined by Electron Backscatter Diffraction

Perez G^{2,1}, Archanjo BS¹, Kuznetsov O¹, Achete CA¹ - ¹Inmetro - Metrologia de Materiais, ²UFRJ - Nanotecnologia

CO.MAT.32

Optically Efficient Probes for Tip-Enhanced Raman Spectroscopy

Vasconcelos TL¹, Archanjo BS¹, Oliveira BS¹, Jorio A², Achete CA¹, Caçado LG² - ¹Inmetro - Dimat, ²UFMG - Física

CO.OT.01

Raman Spectroscopy in the Study of Coralline Algae Mineralogy from the Brazilian Shelf

Carvalho RT¹, Rocha GM², Bahia RG¹, Karez CS¹, Amado Filho GM¹, Salgado LT¹ - ¹Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, ²Universidade Federal do Rio de Janeiro - Laboratório de Física Biológica

CO.OT.02

Dolomite in Abrolhos reefs, Northeast Brazil

Ayres AEA¹, Giannini PCF², Nash M³, Sayegh IJ², Torrano-Silva BN⁴, Campos V⁵ - ¹Institute of Oceanography of University of São Paulo, ²Institute of Geoscience, ³Australian National University, ⁴Institute of Biology, ⁵Institute of Science and Technology of São Paulo State University

CO.OT.03

Bone Biofabrication From Human Adipose Stem Cell Spheroids Seeded Into Pla/Cha 3D Printing Scaffold

Kronemberger GS, Silva KR, Rossi AM, Granjeiro JM, Baptista LS

CO.OT.04

***Ichthyophthirius multiphiliis* in *Carassius auratus* (Goldfish) - Ultrastructure Observation of Parasite Stage and Host Cells**

Moyses CRS¹, Spadacci-Morena DD², Xavier JG¹, Alvares-Saraiva AM¹, Rocha PRDA¹, Lallo MA¹ - ¹Universidade Paulista - Programa de Pós-Graduação em Patologia Ambiental e Experimental, ²Instituto Butantã - Laboratório de Fisiopatologia

CO.OT.05

Titanium Dioxide Nanoparticles Identification In Fish Cells: Subcellular Internalization

Souza IC¹, Mendes VAS², Duarte ID³, Matsumoto ST⁴, Elliot M⁵, Wunderlin DA⁶, Monferrán MV⁶, Fernandes MN¹ - ¹Universidade Federal de São Carlos - Departamento de Ciências Fisiológicas, ²Universidade Federal de São Carlos - Departamento de Engenharia de Materiais, ³Universidade Federal do Espírito Santo (DBV/UFES) - Departamento de Ciências Biológicas, ⁴Departamento de Ciências Biológicas - Universidade Federal do Espírito Santo (DBV/UFES), ⁵University of Hull, Hull HU6 7RX, UK. - Institute of Estuarine & Coastal Studies (IECS), ⁶National University of Cordoba - Institute of Science and Food Technology Córdoba, CONICET and Department of Organic Chemist