

ORALS

F1I

WEDNESDAY 11/09. 16:40

“Drug Targeting by the Iron Acquisition Pathway: Internalization of a Holotransferrin-Maghemite Construct”

H. Piraux (Université Paris Diderot - Laboratoire ITODYS), M. Hémadi, NT. Ha-Duong , J. Hai , N. Serradji , S. Ammar , P. Verbeke , R. Losno, J.M. El Hage Chahine

E2I

THURSDAY 12/9. 12:20

“Friction spot joining of aluminum 6181-T4 and carbon fiber reinforced poly(phenylene sulfide): Effects of process parameters on microstructure and strength”

Seyed M. Goushegir (Helmholtz-Zentrum Geesthacht), Sergio Amancio, J. V. Esteves, J. F. dos Santos, L. B. Canto, E. Hage Jr.

B2I

TUESDAY 10/9. 12:20

“Manufacturing of Hard Metals Using SPS Method”

Lili Nadaraia (Georgian Technical University), Nikoloz Jalabadze, Levan Khundadze

C1I

MONDAY 9/9. 11:40

“Solidification microstructure of Ni-based superalloys”

Mehdi Rahimian (IMDEA Materials Institute), Ilchat Sabirov , Srdjan Milenkovic

B2I

MONDAY 9/9.15:00

“Mechanical Performance of Alumina Toughened Zirconia (ATZ) nanocomposites “

Adolfo Fernández Valdés (Nanomaterials and Nanotechnology Research Centre (CINN-CSIC- UO-PA), Sergio Rivera Monte, Lidia Goyos , Catuxa Prado, Luis Antonio Díaz,Ramón Torrecillas, Javier Belzunce

C3II

THURSDAY 12/9.12:20

“Dynamic compaction resistance sintering: effect of impact on physical properties of copper pellets”

S. Lemonnier (Institut franco-allemand de recherches de Saint-Louis – ISL, France), P. Acquier, C. Ternier, N. Allain-Bonasso, A. Rusinek, T. Grosdidier, E. Barraud

F1I

WEDNESDAY 11/9. 12:20

“Porous silicon nanoparticles functionalized for the photodynamic therapy of cancer”

Frédérique Cunin (Institut Charles Gerhardt, Montpellier, France), Emilie Secret, Marie Maynadier, Arnaud Chaix, Magali Gary-Bobo, Marcel Garcia, Philippe Maillard, Francesco Di Renzo, Michael J. Sailor, Jean-Olivier Durand

C3III

WEDNESDAY 11/9. 11:00

“Sliding wear of polycrystalline ceramics: improvements via microstructural design”

O. Borrero-López (Department of Mechanical, Energy and Materials Engineering, University of Extremadura,), E. Ciudad, A.L. Ortiz, F. Guiberteau, A. Motealleh, N.P. Padture

D1III

WEDNESDAY 11/9. 12:40

“Tomographic imaging of nanoseeded nucleation in cement pastes”

Valentini L. (Università di Padova, Dip. di Geoscienze and CIRCe Center, Padova, Italy), Artioli G, Dalconi M.C, Ferrari G., Parisatto M., Russo V. , Voltolini M.

B1III

MONDAY 9/9. 15:20

“Ab initio study of compositional trends in elastic properties of Fe-Al compounds”

M. Friák (Max-Planck-Institut für Eisenforschung GmbH, Max-Planck-Strasse 1, Düsseldorf), A. Iznalou M. Todorova, D. Holec and J. Neugebauer

B3III

TUESDAY 10/9. 15:40

"Multipod-like polystyrene/silica clusters designed by seeded-growth emulsion polymerization: towards colloidal molecules and multivalent silica colloids"

Elodie Bourgeat-Lami (C2P2, CPE, CNRS, Univ. Lyon Claude Bernard, France), Anthony Désert, Jean-Christophe Taveau, Olivier Lambert, Muriel Lansalot, Antoine Thill, Olivier Spalla, Etienne Duguet, Serge Ravaine

D1III

WEDNESDAY 11/9.11:40

"Microstructure characterization of thermomechanically treated Al- and Mg-alloys by high resolution X-ray computed tomography"

Christian Gusenbauer (University of Applied Sciences Upper Austria), Johann Kastner, Bernhard Plank, Guillermo Requena, Gerardo Garcés

C2III

THURSDAY 12/9.17:50

"Determination of the cold crack susceptibility of high strength steels"

Ossama Dreibati (Brandenburg University of Technology Cottbus, Department of joining and welding technology), Ralf Ossenbrink, Vesselin Michailov

C3IV

THURSDAY 12/9.12:20

"Mechanical behavior of dental implants manufactured from metallic powders by μ -MIM"

T.J.Ferreira (Centro de Engenharia Mecânica da Universidade de Coimbra), C.P.Fernandes, A.P.Piedade, M.H.Fernandes, J.Tondela, M.T.Vieira

A4IV

THURSDAY 12/9.18:10

"Structural and photophysical characterization of new hybrid nanostructured biocomposites"

Stefano Toffanin (Consiglio Nazionale delle Ricerche, Istituto per lo Studio dei Materiali Nanostrutturati, Italy), Tamara Posati, Susanna Cavallini, Valentina Benfenati, Anna Sagnella, Wouter Koopman, Marco Natali, Morena Nocchetti, Giampiero Ruani, Roberto Zamboni, Michele Muccini

AD1III

MONDAY 12/9.12:20

"Fast X-ray micro-tomography during high temperature deformation of aluminum-metallic glass composites"

L. Salvo (SIMaP - Grenoble University, France), M. Álvarez-Murga, A. Ferré, P. Lhuissier, E. Boller, E. Maire, J.J. Blandin

E1III

WEDNESDAY 11/9.18:50

"Sputtered antimony doped tin oxide: transparent conductor films for energy conversion and energy savings"

José Montero (Department of Engineering Sciences, Solid State Physics. Uppsala University), José Herrero, Cecilia Guillén

B1III

TUESDAY 10/9.15:40

"Effect of creep at constant temperature and thermal cycling creep on damage and fracture of TiAl-based alloy"

Juraj Lapin (Institute of Materials and Machine Mechanics, Slovak Academy of Sciences, Slovak Republic), Hana Stanekova

F2I

THURSDAY 12/9.11:40

"Magnetic nanoparticles from bacteria: the process of biomineralization"

Javier Alonso Masa (Departamento de Electricidad y Electrónica, UPV/EHU), M^aLuisa Fdez-Gubieda, Alicia Muela

F3I

FRIDAY 13/9.12:40

"Laser Assisted Bioprinting of Laminin micrometric spots on cantilevers and correlation with frequency response"

Pier Paolo Greco (CNR-ISMN Bologna), Silvia Tortorella, Cristiano Albonetti, Francesco Valle, Ivan Ferrante, Karin Santoro, Carlo Ricciardi, Beatrice Chelli, Massimiliano Cavallini, Fabio Biscarin

F1I

THURSDAY 12/9.13:00

"Titanium for Biomedical Application with Radial Graded Porosity: Development of a Novel Compaction Device"

Juan Pavón (Universidad de Antioquia, Medellín, Colombia), Yadir Torres, Paloma Trueba, José A. Rodríguez

B4II

WEDNESDAY 11/9.18:50

"The influence of plasma treatment on PP fabrics modification by ZnO nanorods"

Szymon Jakubiak (Faculty of Materials Science and Engineering, Warsaw University of Technology, Warsaw, Poland), Jakub Michalski, Justyna Tomaszewska, Joanna Kalbarczyk, Marian Teodorczyk, Krzysztof Kurzydłowski

F3I

THURSDAY 12/9. 18:50

"Recent advances in silicon wire biosensor arrays"

Robert Halir (University of Málaga), S. Janz, N. Sabourin, D.-X. Xu, H. McIntosh, H. Ding, S. Wang, J. H. Schmid, A. Delâge, J. Lapointe, A. Densmore, W. Sinclair, R. Ma, S. Logan, R. MacKenzie, Q.Y. Liu, and M. Gilmour, A. Ortega-Monux, I. Molina Fernandez

B1II

MONDAY 9/9. 15:20

"Casting and tarnishing studies of bulk metallic glasses based on noble metal for jewelry technology"

Miriam Eisenbart (Chair of Metallic Materials, Saarland University) Ulrich E. Klotz, Oliver Gross, Ralf Busch, Isabella Gallino

D2I

MONDAY 9/9. 15:20

"3D Damage characterisation during sequential tensile loading of a multidirectional carbon fibre reinforced epoxy laminate"

Marta Rodríguez- Hortalá (Vienna University Of Technology), Guillermo Requena, Federico Sket, Jon Molina-Aldareguia, E. Maire, L. Salvo, M. Scheel

D3II

TUESDAY 10/9. 16:40

"Mesoscopic statistical modelling of grain subdivision during severe plastic deformation of commercially pure titanium"

Xiaodong Guo (KU Leuven, Department of Metallurgy and Materials Engineering, MTM) Marc Seefeldt

B1II

MONDAY 09/9. 15:40

"On the Effect of Processing Conditions on Fracture of Bulk Metallic Glasses"

Erno Soinila (Aalto University), Olli Puustinen, Hannu Hänninen, Sven Bossuyt

E1II

THURSDAY 12/10.12:00

"On the Improvement of Series Contact Resistance and Interface Modification in solar cell electrode"

Yinhua Cui (Chung-Ang University), Sung Gyu Pyo, Areum Kim, Seonjea Lee, Eunmi Choi, Hee Soo Choi, Chang Hyun Kim, Soon Hyeong Kwon

D3IV

MONDAY 9/9. 16:40

"MoS₂ as efficient photocatalyst"

Sudip Chakraborty (Uppsala University), Wei Luo

A1I

THURSDAY 12/9. 12:20

"Off-resonance fs-laser shaping of heterogeneous distributions of embedded Ag nanoparticle layers"

J. Gonzalo (Laser Processing Group. Instituto de Óptica. CSIC), G. Baraldi, J. Doster, J. Toudert, J. Solís, J. Siegel

ADDEMDUM

B4I

WEDNESDAY 11/9. 12:00

"Synthesis and selective adsorption properties of a novel flexible Cu(II) porous coordination polymer"

Elsa Quartapelle Procopio (Department of Inorganic - Organic Chemistry, Universidad de Granada), Natalia Muñoz, Carmen Montoro, Elena López, J. Enrique Oltra, Valentina Colombo, Angelo Maspero, Norberto Masciocchi, Simona Galli, Irena Sonkovska, Stefan Kaskel, Elisa Barea, Jorge A. R. Navarro

E3IV

FRIDAY 13/9. 11:20

"Low-Dose radiation damage study of W-Re alloys for the fusion reactor divertor"

Alan Xu (Department of Materials, University of Oxford), Paul A.J. Bagot, Steve G. Roberts

A2III

THURSDAY 12/9. 11:00

"Phase formation, magnetic and dielectric properties of (Ba,Bi)(B,Nb)O₃(B – Mn, Ni) ceramic solid solutions"

E.D. Politova (Karpov Institute of Physical Chemistry, Moscow), G.M. Kaleva, S.A. Ivanov, A.V. Mosunov, Roland Mathieu, Per Nordblad, Anil Kumar Puri

A2III

THURSDAY 12/9. 11:20

"FT NIR Raman studies of (Bi_{1-x}LaxFeO₃)_{0.5}(PbTiO₃)_{0.5} solid solution obtained by mechanochemical synthesis"

M. Polomska (Institute of Molecular Physics, Polish Academy of Sciences), J.Wolak, B.Hilczler, M.Balcerzak, M.Jurczyk, A.Pietraszko

A2III

THURSDAY 12/9. 12:00

"Grain growth anomaly and dielectric response in Ti-rich SrTiO₃ ceramics"

Ana M. R. Senos (Department of Materials and Ceramic Engineering, CICECO, University of Aveiro, Portugal) Luis Amaral, Manuela Fernandes, Martin P. Harmer, Paula M. Vilarinho

A2III

THURSDAY 12/9. 18:10

"Optimization of the magnetoelectric response of PVDF/Vitroac laminates"

J. Gutiérrez (Centro/Departamento de Física, Universidade do Minho, Portugal), M. P. Silva, S. Reis, S. Lehmann, A. Lasheras, P. Martins, S. Lanceros-Mendez, J. M. Barandiarán

A2III

THURSDAY 12/9. 18:30

"PVDF-TrEF polymer based thin film composites with very high magnetoelectric coefficient"

Thomas Strunskus (Multicomponent Materials, Institute for Materials Science, Christian-Albrechts-University at Kiel, Germany), Amit Kulkarni, Andre Piorra, Robert Jahns, Iulian Teliban, Kerstin Meurisch, Hanna Lewitz, Leonid Kahle, Igor Barg, Eckhard Quandt, Reinhard Knöchel, and Franz Faupel

A2III

FRIDAY 13/9. 11:40

"Ferroelectric / ferromagnetic core-shell nanotubes: template-assisted sol gel synthesis"

D.Sallagoity (CNRS, Université de Bordeaux, France), R.Berthelot, J.Majimel, N. Penin, C.Elissalde, M.Maglione, V. Antohe, L.Piroux

E1III

WEDNESDAY 11/9. 16:00

"Development of innovative microporous layers for PEM fuel cells"

Saverio Latorrata (Politecnico Di Milano Dipartimento Di Chimica, Materiali E Ing.Chimica), Paola Gallo Stampino, Riccardo Balzarotti, Cinzia Cristiani

A3II

MONDAY 09/9. 12:00

"Thermal transport studies in CVD grown graphene membranes for applications in thermal sensing devices"

Rita Rizzoli (CNR – IMM Bologna), Giulio Paolo Veronese, Luca Ortolani, Matteo Ferri, Alberto Roncaglia, Vittorio Morandi

A4II

WEDNESDAY 11/9. 16:00

"Transparent conducting graphene sheets withstanding high temperature processes during the fabrication of thin film photovoltaic devices of third generation"

Rita Rizzoli (CNR – IMM Bologna Institute), Marco Allegrezza , Caterina Summonte , Luca Ortolani , Vittorio Morandi , Giulio Paolo Veronese

D2III

TUESDAY 10/9. 13:00

"The role of an interlayer in titanium coatings on polyimide"

Megan Cordill (Erich Schmid Institute of Materials Science Leoben – Austria), Lawrence Bowles , Johannes Schalko , Gerhard Dehm

F2I

THURSDAY 12/9. 13:00

"Comparative studies of the friction behaviour of natural and synthetic skin"

Steven Franklin (Philips Research), Joanna Furgala , Jolanta Baranowska

C1I

WEDNESDAY 11/9. 12:20

Sintered study of 316l stainless steel nanopowders using spark plasma sintering process

Bassem Mouawad (Mateis Laboratory) Damien Fabregue, Michel Perez, Martine Blat, Frederic de Labrouille, Christophe Domain, Cedric Pokor

D2II

TUESDAY 10/9. 15:20

"In-situ observation of the deformation of mmc honeycombs by x-ray computed tomography and correlation with ebsd phase analysis"

Uta Ballaschk (TU Bergakademie Freiberg) , Harry Berek, Christian Weigelt, Christos Aneziris

E1III

MONDAY 9/9. 11:40

"SANERGY HT as Metallic interconnects for SOFC: improved behaviour by cobalt protective coatings"

Anna Magrasó (Department of Chemistry, University of Oslo), Jan Froitzheim, Jan-Erik Svensson, Reidar Haugsrud

E1III

MONDAY 9/9. 18:50

"Study of the synergistic interaction between nickel, gold and molybdenum in novel modified nio/gdc cermets, possible anode materials for ch4 fuelled sofcs"

Dimitrios K. Niakolas (Foundation for Research and Technology, Institute of Chemical Engineering Sciences (FORTH/ ICE-HT), Greece) Michalis Athanasiou, Vassilios Dracopoulos, Symeon Bebelis, Stylianos G.Neophytides

E1III

WEDNESDAY 11/9. 15:40

"EIS studies on alternative La(1-X)SrxFeyCo(1-y)O3-D cathodes for intermediate temperature SOFC"

Claudia Paoletti (ENEA, C.R.Casaccia) Elisabetta Simonetti, Fabrizio Puleo, L.F.Liotta

E1III

TUESDAY 10/9. 12:20

"The influence of carbon nanotubes treatment on the catalytic properties of Pd/CNTs used in direct formic acid fuel cell"

Marta Mazurkiewicz (Faculty of Materials Science and Engineering, Warsaw University of Technology), Artur Malolepszy, Ewelina Ciecierska, Leszek Stobinski, Krzysztof J. Kurzydowski

E1III

WEDNESDAY 11/9. 15:00

"Advances in tubular micro solid oxide fuel cells"

Partha Sarkar (Alberta Innovates - Technology Futures), Saeid Amiri, Luis Yamarte, Amir Hanifi, Thomas Etsell

ADDEMDUM

D2II

TUESDAY 10/9. 11:00

"Slip mechanisms in bcc single crystals: in-situ Laue diffraction"

Ainara Irastorza (Paul Scherrer Institut), Helena Van Swygenhoven, Cecile Marichal, Steven Van Petegem, Camelia Borca

E4I

THURSDAY 12/9. 15:00

"A cohesive zone model to simulate fatigue crack propagation in a martensitic stainless steel at high hydrogen pressure"

Gilbert Henaff (Prime Institute, ISAE-ENSMA), Giovambattista Bilotta, Clara Moriconi, Mandana Arzaghi, Damien Halm, Tom Zawodzinski

E4I

WEDNESDAY 11/9. 12:20

"Controlling light-harvesting with plasmons: spectroscopy of hybrid nanostructures"

David Piatkowski (Institute of Physics, Nicolaus Copernicus University), Sebastian Mackowski

D3II

WEDNESDAY 11/9. 12:00

"Determination of Thermodynamic Key Data for the Electrode Materials Li-Cu-Sn and Li-Co-O of Advanced Lithium Ion Batteries using Experimental and Theoretical Methods"

David Henriques (Forschungszentrum Juelich GmbH), Siangfur Dang, Marco Prill, Torsten Markus

B4I

THURSDAY 12/9. 12:20

"Ab-initio study of MOFs with open metal sites for gas sensing applications"

B. Civalleri (Department of Chemistry and NIS Centre of Excellence, University of Torino), E. Albanese, M. Ferrabone, R.Orlando

D2III

MONDAY 9/9. 16:20

"Mechanical stability of multilayered nanowires"

Uwe Beck (BAM –Berlin Germany), Jérôme Colin, Alain Cimetière

B4II

WEDNESDAY 11/9. 17:50

"The effects of processing on fluid characteristics of replicated aluminium foams"

Erardo Elizondo-Luna (The University of Sheffield), Robert Woolley, Russell Goodal, Farzad Barari

E2I

FRIDAY 13/9. 11:00

Advanced Simulation Technology for Material Strength and Fatigue Life of Highway Structures

Amir Horr (Austrian Institute of Technology)

B1IV

TUESDAY 10/9. 11:40

"ODS FeCrAl Alloys For High Temperature Fossil Processes"

Gordon Tatlock (University of Liverpool), Sebastien Dryepondt, Thomas Boegelein, Andy Jones

ORAL CANCELLATIONS

A2II

TUESDAY 10/9. 16:00

"Dental applications of small silver clusters: A preliminary study of the absorption, antimicrobial and magnetic properties"

Berta Rivas (Conservative dentistry Faculty of Medicine and dentistry University of Santiago de Compostela Spain), M. Arturo López-Quintela, Pablo Castelo, Benjamín Martín-Biedma, Purificación Varela-Patiño, José Rivas

B4I

WEDNESDAY 11/9. 12:00

"New Zr(IV) and Hf(IV) based Metal-Organic Frameworks Functionalized with Lewis Base Sites: Synthesis, Characterization and Gas-Sorption Properties"

Ioannis Bratsos (N C S R), Ioannis Spanopoulos, Georgia Charalambopoulou, Dionisios Vourloumis, Theodoros Steriotis, Pantelis Trikalitis

A2III

THURSDAY 12/9. 16:40

"Growth of Textured NiFe₂O₄ Thin Films via Chemical Solution Deposition to Improve the Magnetostriction Properties in PbZr_{0.52}Ti_{0.48}O₃/NiFe₂O₄ Multi-ferroic Laminated Composites"

Justin Schwartz (North Carolina State University), Nazanin Bassiri-Gharb, Safoura Seifikar

C2III

THURSDAY 12/9. 19:10

"Solderability and wettability of lead-free solders"

József Hlinka (Budapest University of Technology and Economics, Faculty of Transportation Engineering, Department of Automobiles and Vehicle Manufacturing) Zoltán Weltsch

A2III

THURSDAY 12/9. 11:00

"Magnetolectric Properties in Nanostructured Ti-Doped BiFeO₃"

A.C. Caballero (Electroceramics Department, Instituto de Cerámica), M.S. Bernardo, T. Jardiel, M. Peiteado, F. Mompeán, M. Garcia-Hernandez, M.A Garcia

A2III

THURSDAY 12/9. 12:00

"Magnetic and Structural investigations in TbMnO₃ multiferroic polycrystals"

Ivair A. Santos (Universidade Estadual de Maringá, Brazil), Gustavo S. Dias, Luiz F. Cótica

A2III

THURSDAY 12/9. 16:40

"Growth of textured NiFe₂O₄ thin films via chemical solution deposition to improve the magnetostriction properties in..."

Justin Schwartz (Department of Materials Science and Engineering, North Carolina State University, USA) Safoura Seifikar, Nazanin Bassiri-Gharb

C3I

TUESDAY 10/9. 16:20

"Structural and spectroscopic investigation of copper oxides nanoparticles with various capping agents"

Jerzy Peszke (A.Chelkowski Institute of Physics, University of Silesia, Katowice, Poland), Anna Nowak, Jacek Anna Nowak, Jacek Szade, Ewa Talik, Alicja Ratuszna

F1I

THURSDAY 12/9. 17:10

"PEG-based nanocomposites for drug delivery application: intercalation procedure and thermal characterization"

Paola Gallo Stampino (Politecnico Di Milano Dip. Di Chimica Materiali E Ing Chimica), Elisabetta Finocchio, Cinzia Cristiani, Giovanni Dotelli, Luca Zampori, Federico Zorzi

ADDEMDUM

A4II

THURSDAY 12/9. 16:00

"Urchin-Inspired Architectures for Solar Cells"

Laetitia Philippe (Swiss Federal Laboratories For Materials Science And Technology. EMPA), Jamil Elias , Ivo Utke , Johann Michler , Mikhael Bechelany

C1I

WEDNESDAY 11/9.12:20

"The transitory phase in cementitious materials: influence of the agitation time on some properties of the resulting material"

Marta Castellote (Ictcc-Csic) Angel Castillo, Isabel Martínez, Francisco Rozas

B4II

WEDNESDAY 11/9.16:20

"Experimental and numerical simulations of the regeneration phase of diesel particulate filters"

Nada Bousseimi (Centre des Matériaux Mines Paristech) Michel Bousuge, Sylvain Gailliègue

E1III

TUESDAY 10/9.12:20

"Development and characterization of ptni/ptnisi alloys for application as catalysts for direct ethanol fuel cells"

Deyse Carpenter (University of Blumenau) Vilson Fusiger

E1III

WEDNESDAY 11/9.15:00

"Can automatic control improve performance and lifespan of fuel cells?"

Carlos Bordons (University of Seville)

E4I

THURSDAY 12/9. 17:50

"Mesoscopic modeling of 3-d electrode architectures for li-ion batteries "

Partha Mukherjee (Texas A&M University), Sreekanth Pannala, Michael Martin, Jeff Dietiker, Srikanth Allu, John Turner, Devesh Ranjan

E4I

FRIDAY 13/9. 11:40

"Effect of composite electrode thickness on the electrochemical performances of all-solid-state li-ion batteries"

Agnieszka Kubanska (Laboratoire Madirel, Université D'Aix Marseille), Laurent Castro, Laurence Tortet, Mickael Dollé, Renaud Bouchet

F1I

WEDNESDAY 11/9. 15:20

"Synthesis and characterization of Ta-based thin films for biomedical applications"

Angelica Jara (Escuela de Física, Facultad de Ciencias, Universidad Central de Venezuela), Nicole Fréty, Gema González

B1IV

MONDAY 9/9. 18:10

"Tomographic atom probe study of nanostructure in 13.5% Cr ODS alloys"

Sergey Rogozhkin (SSC RF Institute for Theoretical and Experimental Physics) Andrey Aleev, Rainer Lindau, Anton Möslang, Alexander Nikitin, Nikolay Orlov, Pavel Vladimirov, Alexander Zaluzhnyi

B1IV

TUESDAY 10/9. 17:30

"Tomographic atom probe study of un- and irradiated ODS Eurofer Steel"

Andrey Aleev (Institute for Theoretical and Experimental Physics), Sergey Rogozhkin, Boris Chalyh, Michael Klimenkov, Timur Kulevoy, Rainer Lindau, Anton Moeslang, Aleksander Nikitin, Pavel Vladimirov, Aleksander Zaluzhnyi

A2III

THURSDAY 12/9. 12:00

Magnetic and Structural Investigations in TbMnO₃ Multiferroic Polycrystals Presenting: Ivair Santos
Ivair Santos (Universidade Estadual de Maringá) , Gustavo Dias , Luiz Cótica

B4I

THURSDAY 12/9. 12:20

"Advances in the understanding of the polymorphism of zeolitic imidazolate frameworks zifs"
Stefano Leoni (Dresden Technical University) ,Igor Baburin

D1IV

MONDAY 9/9. 18:30

"Three Laws of Substructure Development in Deformed Metal Materials"

Yurili Perlovich (National Research Nuclear University – Moscow). Margarita Isaenkova, Vladimir Fesenko.

D1IV

TUESDAY 10/9. 11:20

"Fluorescence Correction of Characteristic X-Rays Produced in (Fe,Cr)7C₃ During Chemical Microanalysis"

Stephen Carpenter (University of Blumenau, Blumenau, Brasil). #J.T.H. Pearce.

D1IV

MONDAY 9/9. 18:50

"Study of threading dislocation density reduction in AlGa_N epilayers by Monte-Carlo simulation of high resolution reciprocal space maps of a two layer system"

Sondes Bauer (Karlsruhe Institute of Technology (KIT) Synchrotron Radiation Facility ANKA – Germany. S. Lazarev, M. Barchuk, K. Forghani, V. Holý, F. Scholz, and T. Baumbach

E2I

FRIDAY 13/9 .11:00

"Energy absorption and failure modes of metal matrix syntactic foams"

Imre Norbert Orbulov (Department of Materials Science and Engineering, Faculty of Mechanical Engineering, Budapest University of Technology and Economics), Kornél Májlinger

CHAIR

A4IV

THURSDAY, September 12 AM2 -Nanorods and nanotubes. Chair: S. Yatsunenko

THURSDAY, September 12 PM1-Nanochemistry. Chair: D. Bavykin

THURSDAY, September 12 PM2- Optical materials and photocatalysts. Chair: L. Mino

FRIDAY, September 13 AM2- Shape and surface. Chair: S. Mitchell

F1I

WEDNESDAY, September 11 AM1. Chair: Antonio Garofalo

WEDNESDAY, September 11 PM1. Chair: Nico Voelcker

WEDNESDAY, September 11 PM2. Chair:Montserrat Colilla

THURSDAY, September 12 AM2. Chair: Alejandro Baeza García

THURSDAY, September 12 PM1. Chair: Hisatoshi Kobayashi

THURSDAY, September 12, Oral Poster Presentations. Chair: Frederique Cunin

C1I

MONDAY, September 9 AM2. Chair: Jean Marie Drezet

MONDAY, September 9 PM1. Chair: Michel Rappaz

MONDAY, September 9 PM2. Chair: Sabine Bottin-Rousseau

TUESDAY, September 10 AM2. Chairs: C. Bordreuil and D. Sola Martínez

TUESDAY, September 10 PM1. Chair: M. Rappaz

TUESDAY, September 10 PM2. Chair: Jean Marie Drezet

WEDNESDAY, September 11 AM2. Chairs: R.I. Merino and J.I. Peña

E1III

MONDAY, September 9 AM2 - Solid Proton Conductors. Chair: ML Di Vona

MONDAY, September 9 PM1 - Solid Ionic Conductors I. Chair: R. Hempelmann

MONDAY, September 9 PM2 - Fuel Cell Electrodes I. Chair: J. Santiso

TUESDAY, September 10 AM2 - Cell Electrodes II Chair: G. Gebel

TUESDAY, September 10 PM1 - Modelling. Chair: F. Marques

TUESDAY, September 10 PM2 - Solid Ionic Conductors II. Chair: P. Knauth

WEDNESDAY, September 11 AM2 - Materials for Fuel Cells. Chair: A. Magraso

WEDNESDAY, September 11 PM1 - Fuel Cell Technology. Chair: P. Jannasch

D2II

TUESDAY September 10 AM2. Chair: Christian Kuebel

TUESDAY September 10 PM1. Chair: Marc Legros

TUESDAY September 10 PM2. Chair: Marc Legros

POSTERS

- E1III**
Poster session 1
"Proton conduction properties in Ca/Sr-doped Gd₃GaO₆"
Anastasia Iakovleva (Lab. SPMS, Ecole Centrale Paris), Guilhem Dezanneau, Irina E. Animitsa, Anthony Chesnaud
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- D3I**
Poster session 2
"Building up a phase diagram for low dimensional Fe oxides"
Ivan Bernal (Instituto De Ciencia De Materiales De Madrid, CSIC), Silvia Gallego
-
- E1II**
Poster session 2
"Properties of Granular Materials as Heat Transfer and Storage Medium for CSP Plants with Thermal Energy Storage and Moving Bed Heat Exchanger"
Torsten Baumann (German Aerospace Center), Stefan Zunft, Christian Roskopf
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- F1I**
Poster session 2
"Electrospun PHBV/PHB/BSA mats for bone tissue engineering application"
W.Swieszkowski (Faculty of Materials Science and Engineering, Materials Design Division, Warsaw University of Technology), K.Zalewska-Wierzbicka, E.Kijowska, M. Zinn, K.J.Kurzydowski
-
- A1III**
Poster session 2
"Rare-earth-doped phosphate glasses with interesting magneto-optical properties"
Ionut Feraru (National Institute of R @ D For Optoelectronics INOE 2000), Mihail Elisa, Bogdan Sava, Lucica Boroica, Mihaela. Valeanu, Victor. Kuncser, Ileana Cristina Vasiliu, Raluca Iordanescu
-
- B4I**
Poster session 2
"Thin films of acridine-based compounds grown by laser techniques",
Ionut Feraru (), I.C. Vasiliu, A. Emandi, A. Matei, R. Iordanescu, M. Elisa
-
- C4I**
Poster session 1
"Surface Segregation of Ag in Ag-DLC thin films produced by Magnetron Sputtering"
Noora K.Manninen (SEG-CEMUC Mechanical Engineering Department, University of Coimbra), Ramon Escobar Galindo, Albano Cavaleiro, Sandra Carvalho
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- C2III**
Poster session 2
"Studies on phosphorous content influence on the microstructure development at the ENIG/SAC interface"
Paweł Ziłba (Institute of Metallurgy and Materials Science, Polish Academy of Sciences, Poland), Joanna Wojewoda-Budka, Zbigniew Huber, Anna Wierzbicka-Miernik, Anna Sypień
-
- F1I**
Poster session 2
"Micro-mechanical Behaviour of Porous Titanium Obtained by Space-Holder Techniques"
Yadir Torres (), Yves Gaillart, José A. Rodríguez, Juan J. Pavón
-
- C3I**
Poster session 1
"Theoretical and experimental analysis of droplet-to-particle formation during aerosol processing of colloidal TiO₂ nanoparticles"
Olivera Milosevic (Institute of Technical Science of SASA), Ivan Dugandzic, Dragana Jovanovic, Lidija Mancic, Zoran Saponjic, Jovan Nedeljkovic
-

ADDEMDUM

C3I

Poster session 1

"Aerosol processing of hierarchically organized TiO₂ based nano-particle"

Olivera Milosevic (Institute of Technical Science of SASA), Ivan Dugandzic, Dragana Jovanovic, Lidija Mancic, Zoran Saponjic, Jovan Nedeljko

C1I

Poster session 1

"Transient Directional Solidification of a Hypoperitectic Zn-Ag Alloy"

Christopher Brito (University of Campinas) Marcelino Dias, Amauri Garcia

C2III

Poster session 2

"Elimination of voids by hot forging and thermal treatment for ultrahigh carbon workroll"

Ho-Won Lee (Korea Institute Of Materials Science), Seong-Hoon Kang

A3II

Poster session 2

"Graphene-based transparent layers and capacitors produced by electrochemical intercalation and microwave-induced gas expansion"

Elzbieta Anitowska (Istituto per la Sintesi Organica e la Fotoreattività-Consiglio Nazionale delle Ricerche (ISOF-CNR) Italy), Zhenyuan Xia, Giuliano Giambastiani, Christos Christodoulou, Vittorio Bellani, Vittorio Morandi, Alberto Zanelli, Vincenzo Palermo. A3II-P-TH-PS2-25

D2II

Poster session 1

"Passive microrheology: non contact determination of gel point transition"

Pascal Bru (Formulaction), Christelle Tisserand, Roland Ramsch, Giovanni Brambilla, Gérard Meunier

F1I

Poster session 2

"Stability of proteins dispersions via multiple light scattering"

Pascal Bru (Formulaction), Christelle Tisserand, Mathias Fleury, Gérard Meunier

C3III

Poster session 2

"Aqueous colloidal processing of submicrometric SiC plus Y₃Al₅O₁₂ with diamond nanoparticles"

Ángel L. Ortiz, (Departamento de Ingeniería Mecánica, Energética y de los Materiales, Escuela de Ingenierías Industriales, Universidad de Extremadura, Spain), Estibaliz Sánchez-González, Jesús Rodríguez-Sánchez, Pedro Miranda and Antonia Parajes-Vicente.

A1I

Poster session 2

"2D strain map of femtosecond written waveguides in Lithium Niobate crystals"

Daniel Jaque (Centro de Investigaciones Ópticas CONICET La Plata CIC), Matias Tejerina, Gustavo Torchia

E4I

Poster session 2

"Modeling and Validation of Hydrogen Storage Tanks based on Hydride-Graphite- Composites"

Carsten Pohlmann (Institute of Materials Science, Technische Universität Dresden), Lars Röntzsch, Bernd Kieback, Kai Herbrig

A1I

Poster session 2

"The role of diffractive focusing in femtosecond laser micromachining"

Jorge Pérez-Vizcaino (Institut de Noves Tecnologies de La Imatge (INIT), Universitat Jaume I, Castelló, Spain), J. González-Ausejo, S. Torres-Peiró, J. Pérez-Vizcaino, O. Mendoza-Yero, G. Mínguez-Vega, J. Lancis

C4I

Poster Session 1

"Tribocorrosion behavior of TiBC nanocomposite coatings in strong oxidant disinfectant solutions"

E. Gracia-Escosa (CENIM-CSIC, Surface Engineering, Corrosion and Durability department, Spain), I. García, J.C. Sánchez-López, M.D. Abad, A. Mariscal, M.A. Arenas, J. de Damborenea, A. Conde

A4II

Poster Session 2

"Nanopowders for Applications in Biology, Medicine, Photonics and Photovoltaics"

Stuart Irvine (Glyndwr University), Simon Hodgson, William Brooks, Andrew Clayton, Giray Kartopu, Daniel Lamb, Vincent Barrioz

E2I

Poster session 1

"Rolling contact fatigue of rails"

Anna Zervaki (University of Thessaly, Department of Mechanical Engineering), Gregory Haidemenopoulos, Antonios Giannakopoulos

E2I

Poster session 1

"Influence of temperature on the tensile deformation behavior of TWIP steel studied by EBSD"

Fusheng Han (Key Laboratory of Materials Physics, Institute of Solid State Physics, Chinese Academy of Sciences), Xiaofeng Duan, Kun Wang, Dan Wang

D2I

Poster session 2

"Laser surface modification of Ti-30Nb-2Sn alloy"

Juan José Candel (Instituto Tecnología Materiales), Patricia Franconetti, Jose Manuel Amado, Emilio Rayón, Vicente Amigó

D2IV

Poster session 2

"Behaviour Mechanical of Alkali-Activated Cement as function of the temperature"

Antonia Martín (Department of Materials Science, Universidad Politécnica de Madrid, Spain), Fernando Ajejas, Silvia Moreno, Ana Fernández-Jimenez, José Ygnacio Pastor
