

POSTER SESSIONS

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

DEVO / Thin films for sustainable development

- #002** Plasma-assisted deposition of vertically aligned graphene nanosheets for advanced energy storage devices
A. Vesel, **R. Zaplotnik**, **D. Paul**, **G. Primc**, **M. Mozetič**
Jozef Stefan Institute - Ljubljana (SI)
- #011** Phase formation on CaV₂O_x amorphous films deposited by reactive magnetron sputtering after post-annealing treatment
T. Fernandes¹, **M. Hahlin**², **A. Le Febvrier**¹, **P. Eklund**¹
¹ *Inorganic Chemistry, Department of Chemistry — Ångström Laboratory, Uppsala Univ., Uppsala (SE)*
² *Structural Chemistry, Department of Chemistry — Ångström Laboratory, Uppsala Univ., Uppsala (SE)*
- #016** Reactive magnetron sputtering of WO₃ thin films: effects of oxygen flow and pulsed DC frequency on electrochromic behavior
P. Vasina¹, **T. Rajan**¹, **D. Lubojacký**¹, **S. Behrangi**¹, **P. Soucek**¹, **J. Zenisek**¹, **P. Klein**¹, **I. Venkrbcova**², **Z. Hubicka**², **J. Vyskocil**³, **J. Tucek**³
¹ *Masaryk Univ. - Brno (CZ)*
² *Institute of Physics of the Czech Academy of Sciences - Prague (CZ)*
³ *HVM Plasma - Prague (CZ)*
- #160** Lithium storage in nanostructured SiC: a surface and electrochemical study
K. Idczak¹, **S. Owczarek**¹, **K. Walczak**²
¹ *Univ. Wrocław, Institute of Experimental Physics - Wrocław (PL)*
² *AGH Univ. Kraków, Faculty of Energy and Fuels - Kraków (PL)*
- #171** High-pressure hydride films synthesis by time-resolved in situ optical spectroscopy
D. Abejón-Arribas¹, **P. Prieto**¹, **F. Leardini**¹, **I.J. Ferrer**¹, **Ó. Rodríguez De La Fuente**², **J.R. Ares**¹
¹ *Departamento de Física de Materiales, Univ. Autónoma de Madrid - Madrid (ES)*
² *Departamento de Física de Materiales, Univ. Complutense de Madrid - Madrid (ES)*

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

TRIBO / Protective & tribological coatings

- #012** Refractory High Entropy nano-layered Alloy thin films for oxidation resistance
A. Bouissil¹, S. Achache¹, D.E. Touaibia¹, J. Ghanbaga², P.S. Postnikov³, M.M. Chehimi⁴, B. Panicaud⁵, F. Parent¹, F. Sanchette¹, M. El Garah¹
¹UTT LASMIS, Antenne de Nogent – 52, LRC CEA-LASMIS, NICCI - Nogent (FR)
²Institut Jean Lamour (UMR CRS 7198) - Nancy (FR)
³Research School of Chemistry and Applied Biomedical Sciences, Tomsk Polytechnic Univ.- Tomsk (RU)
⁴Univ. Paris, ITODYS, UMR CNRS 7086 - Paris (FR)
⁵LASMIS, Université de Technologie de Troyes (UTT) - Troyes (FR)
- #013** A laser induced plasma processing for forming a tribological nitride coating on a metal surface
N. Ohtsu¹, E. Hashiba¹, M. Tachibana¹, Y. Kitadate¹, R. Kawakami², M. Hirano¹
¹Kitami Institute of Technology - Kitami (JP)
²Hokkaido Research Organization - Sapporo (JP)
- #047** Investigating the passivation behavior of PVD coatings throughout their metallic to ceramic transition
S. Abolghasemi, H. Riedl, O. Hudak
Institute of Materials Science and Technology, TU Wien - Vienna (AT)
- #071** Study on the anti-fretting effects of DLC coating on titanium alloy
Q. Yu
AVIC Manufacturing Technology Institute - Beijing (CN)
- #161** Femtosecond laser structuring of thin film heaters for 3ω thermal conductivity measurements on wear resistant coatings
C. Hofer¹, M. Pohler², C. Czettl², M. Tkadletz¹
¹C. Doppler Lab. for Sustainable Hard Coatings, Dpt. Materials Science, Montanuniv. Leoben (AT)
²CERATIZIT Austria GmbH, Reutte (AT)
- #166** Crystal structure and mechanical properties of ALD-grown and thermally treated hafnium oxide–silicon oxide composite films
O. Vanker, A. Tarre, A. Kasikov, P. Ritslaid, T. Jõgiaas
Univ. Tartu - Tartu (EE)
- #232** Pulsed laser-arc deposition of high-hardness diamond-like carbon coatings: plasma characteristics and performance optimization
G. Ma, X. Liu
AVIC Manufacturing Technology Institute - Beijing (CN)
- #233** Plasma nitriding of AISI 316L powders
G. Marcos¹, L. Bortoletto², R. Perito Cardoso², T. Czerwicz¹, S. Bruyere¹, J. Martin¹, M.P. Planche³, G. Darut³, H. Liao³
¹Institut Jean Lamour - Nancy (FR)
²LabMat - UFSC - Florianopolis (BR)
³Institut Carnot Bourgogne - Belfort (FR)

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

TRIBO / Protective & tribological coatings (*to be followed*)

- #236** Comparative study of HiPIMS-deposited CrN and CrSiN hard coatings in cryogenic machining of Ti₆Al₄V
G. Chettouh¹, S. Achache¹, A. Bouissil¹, L. Gueye¹, Y. Pinot², F. Sanchette¹, C. Nouveau², M. El Garah¹
¹ LASMIS – Univ. Technology of Troyes - Nogent (FR)
² LaBoMaP - École nationale supérieure d'Arts et Métiers - Cluny (FR)

SENCA / Thin films for sensing & capture

- #001** Induced variety of surface domain structures in hybrid metal-glass cylindrical microwires
A. Chizhik¹, A. Zhukov²
¹ Univ. Basque Country - San Sebastian (ES)
² Univ. Basque Country, IKERBASQUE, Basque Foundation for Science - San Sebastian (ES)
- #108** Gold nanoparticles-palladium nanostructures for hydrogen sensor
L. Avril¹, A. Andrieux², I. Gallet², F.J. Cadete Santos Aires Cadete³, B. Domenichini²
¹ Institut de recherche de la construction, ESTP - Cachan (France)
² Laboratoire Interdisciplinaire Carnot de Bourgogne, UB - Dijon (France)
³ IRCELYON - Villeurbanne (France)
- #121** Design of MAX/MXenes thin films via bottom-up magnetron sputtering for gas sensors device
A. Gangwar, R.E. González, A. Rosenkranz
ANID - AMXSA, Dpt. Ingeniería Química, Biotecnología y Materiales, Univ. Chile, Santiago (CL)

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

OPTO / Thin films for optics & electronics

- #037** Optical properties of ultrathin ZnS layers grown by ionic layer deposition
A. Bogoslovska, D. Grynko
V. Lashkaryov Institute of Semiconductor Physics of NAS of Ukraine - Kyiv (UA)
- #066** 3-Omega thermal conductivity measurements of metal oxide thin films
G. Benstetter¹, F. Kühnel¹, N. Hernandez-Como², L. Sanchez-Fernandez²
¹ *Technische Hochschule Deggendorf - Deggendorf (DE)*
² *Instituto Politécnico Nacional - México City (MX)*
- #076** Parametric study of the pulsed laser deposition of chalcogenide glasses thin films: the cases of germanium telluride and germanium antimony
M. Tabbal¹, N. Barakat², M. Roumie³, H. Ghamlouche⁴
¹ *Department of Physics, American Univ. Beirut - Beirut (LB)*
² *American Univ. Beirut - Beirut (LB)*
³ *Lebanese Atomic Energy Commission, National Council for Scientific Research - Beirut (LB)*
⁴ *Department of Physics, Lebanese Univ. - Beirut (LB)*
- #146** Low global warming potential plasma etching of SiC with Heptafluoroisopropyl methyl ether
C-K. Kim, I. Cho
Ajou Univ. - Suwon (KR)
- #147** Transient photocapacitance measurement for characterization of deep interface states in SiO₂/B-doped diamond films
O. Maida
Osaka Univ. - Osaka (JP)
- #157** 3D nanostructures and devices on diamond film
C. Gu
Institute of Physics, Chinese Academy of Sciences - Beijing (CN)
- #174** Evolution of the optical bandgap of CuI thin films as a function of the temperature
S. Khan^{1,2}, S.A. Efimova², D. Pilloud², T. Fix², J.F. Pierson²
¹ *Univ. Lorraine, CNRS, IJL, Nancy (FR)*
² *Univ. Strasbourg, CNRS, ICube - Strasbourg (FR)*
- #208** Reactive gas pulsing process and glancing angle sputtering: a combined approach for high-performance WO_x electrochromic films
C. Rousselot¹, K.B.J.I. N'djoré²
¹ *FEMTO ST, Univ. Marie et Louis Pasteur - Montbéliard (FR)*
² *Laboratoire de Technologie, UFR SSMT 22, Univ. Félix Houphouët Boigny - Abidjan (CI)*
- #211** Vanadium dioxide thin films: various microstructures for hysteresis manipulations
F. Dumas-Bouchiat, M. Gaudin, I. Alonzo-Zapata, C. Champeaux
IRCER, Univ. Limoges (FR)
- #213** In situ investigation of microstructure and stress evolution in electrochemically deposited copper
A. Ascj, J. Todt, J. Keckes
Chair of Materials Physics, Montanuniv. Leoben, Leoben (AT)

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

GROM / Thin film growth & modelling

- #009** Laser propulsion in confinement regime: the role of film thickness in the impulse generation process
M. Bembli¹, P. Battocchio², N. Bazzanella², M. Biesuz¹, M. Scarpa², G.D. Sorarù¹, A. Miotello²
¹ Univ. Trento, Department of Industrial Engineering - Trento (IT)
² Univ. Trento, Department of Physics - Trento (IT)
- #064** A combined ab initio and experimental study towards advanced TM-Al/Si-C thin film materials
C. Gutschka¹, S. Richter¹, T. Wojcik¹, E. Ntemou², D. Primetzhofer², S. Kolozsvári³, C. Jerg⁴, J. Ramm⁴, H. Riedl¹
¹ TU Wien - Vienna (AT)
² Uppsala Univ. - Uppsala (SE)
³ Plansee Composite Materials GmbH - Lechbruck Am See (DE)
⁴ Oerlikon Surface Solutions AG - Balzers (LI)
- #072** **New QCM-based diagnostic for quantitative time-resolved measurement of the ion flux in HiPIMS**
A. Kapran¹, C. Ballage¹, O. Vasilovici¹, A. Bennacef², T. Minea¹
¹ CNRS / Laboratoire de Physique des Gaz et Plasmas (LPGP) - Orsay (FR)
² Sorbonne Univ. – Faculté des Sciences et Ingénierie - Paris (FR)
- #083** Effect of target processing variables on the microstructure and mechanical properties of AlCrFeNi High-Entropy Alloy coatings deposited by DC magnetron sputtering
H. Myoungwoo, K. Kibeum, H. Sunghwan, P. Haejin, J. Sungmun
Sejong Univ., Dept. Nanotechnology & Advanced Materials Engineering - Seoul (KR)
- #099** Effect of various buffer layers for the large-scale Atomic Layer Deposition integration of archetypical SrTiO₃ thin film on Silicon substrate
B. Berini
GEMaC – CNRS / Univ. Versailles Saint Quentin en Yvelines, Univ. Paris Saclay - Versailles (FR)
- #100** Characterizing thin films with reference-free combined XRR-GIXRF analysis at the synchrotron
Y. Ménesguen
Univ. Paris-Saclay, CEA, LIST, Lab. National Henri Becquerel (LNE-LNHB), Palaiseau - Saclay (FR)
- #138** Multiscale modelling of GLAD-deposited mesoporous titanate thin films for lithium-ion battery applications
A-G. El Hachimi¹, J. Müller¹, P. Moskovkin¹, E.Y. Guillaume¹, R. Adalati², S. Konstantinidis², S. Lucas¹
¹ Univ. Namur, Namur Institute of Structured Matter (NISM), Namur (BE)
² ChIPS, Research Institute for Materials Science and Engineering, Univ. Mons, Mons (BE)
- #176** Thin films of 1T-TaS₂ grown by molecular beam epitaxy
Y. Chernolevska, Y. Vaskivskyi, D. Mihailovic
Jozef Stefan Institute - Ljubljana (SI)

Poster Session #1 – Tuesday 9 June (17:10 – 18:40)

GROM / Thin film growth & modelling (*to be followed*)

- #181** Mn_5Ge_3 and Mn_5Si_3 thin films: so similar and yet so different
M. Petit, L. Michez, A. Boussadi, M.A. Guerboukha, V. Heresanu, S. Kang, I. Kounta
Aix Marseille Univ, CNRS, CINaM, AMUtech - Marseille (FR)
- #186** Development of a digital twin for chromium (Cr) thin film deposition by magnetron sputtering in HiPIMS mode, implemented on an industrial-scale system
M. Sanches-Morizet¹, S. Achache¹, F. Schuster², M. El Garah¹, F. Sanchette¹
¹*LASMIS – Univ. Technologie de Troyes - Nogent (FR)*
²*CEA Paris-Saclay - Paris-Saclay (FR)*

POSTER SESSIONS

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

DEVO / Thin films for sustainable development

- #039** Heavy-element-doped chromium nitride thin films for thermoelectric properties
Y-L. Lo, A. Le Febvrier, E. Lewin, P. Eklund
Inorganic Chemistry, Department of Chemistry - Ångström Laboratory, Uppsala Univ. - Uppsala (SE)
- #136** Electrocatalytic properties evaluation of FeNiMoWCu_x high entropy alloy thin films fabricated by magnetron sputtering: effect of Cu contents
B-S. Lou¹, K.C. Lin², J.W. Lee²
¹ *Chemistry Division, Center for General Education, Chang Gung Univ. - Taoyuan (TW)*
² *Department of Materials Engineering, Ming Chi Univ. Technology - New Taipei (TW)*
- #156** Plasma-assisted conformal surface engineering of powders and components with complex geometries
A. Sarkissian¹, A. Bagdasarian¹, M. Cavellier², K. Chizari¹, C. Côté¹, E. Loreto¹, S.E. Marzdashti¹, N. Oudini¹, R. Porte¹, J. Suys¹
¹ *PLASMIONIQUE Inc - Sainte-Julie, Qc (CA)*
² *OMEGA-PHYSICS - Sarzeau (FR)*
- #167** Thermally induced phase formation and optical tuning of HiPIMS-deposited Zr–O–N thin films for PEC water splitting
M. Vu, D. Kolenatý, J. Čapek, S. Haviar, R. Čerstvý, P. Zeman
Univ. West Bohemia in Pilsen - Pilsen (CZ)
- #207** One-step reactive magnetron sputtering of manganese nitride thin films on nanorough substrates
G. Nkamuhebwa, D. Pilloud, J.F. Pierson, B. Vigolo
Univ. Lorraine, CNRS, IJL, Nancy (FR)
- #209** TEM study of silver–dielectric multilayer structures for passive radiative cooling
F. Capon¹, H. Benait¹, J. Drevillon², J.F. Pierson¹
¹ *Institut Jean Lamour - Nancy (FR)*
² *Institut PPrime - Poitiers (FR)*

SURF / Ultra-thin films in surface science

- #022** Tailoring the surface properties of nano- and micro-particles with low-pressure plasma technologies
C. Vandenabeele, D. Müller, E. Haye, S. Lucas
Innovative Coating Solutions / LARN, NISM, Université de Namur - Isnes / Namur (BE)
- #028** Surface functionalization of carbon nanotubes by plasma treatment for improved compatibility in aqueous electrode processing
D. Müller^{1,2,3}, C. Vandenabeele^{1,2}, H. Tonnoir³, T. Pham Thanh², N. Job³, S. Lucas^{1,2}
¹ *Innovative Coating Solutions - Gembloux (BE)*
² *Univ. Namur - Namur (BE)*
³ *Univ. Liège - Liège (BE)*

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

SURF / Ultra-thin films in surface science (to be followed)

- #029** Properties of ultrathin ZnS films grown by an improved SILAR method
E. Bortchagovsky¹, A. Bogoslovskaya¹, D. Grynko¹, O. Selyshchev², D.R.T. Zahn²
¹ V.Lashkaryov Institute of Semiconductor Physics of NAS of Ukraine - Kyiv (UA)
² Semiconductor Physics and Research Center for Materials, Architectures and Integration of Nanomembranes (MAIN), Chemnitz Univ. Technology - Chemnitz (DE)
- #056** Interaction of protein grafted on silica materials with f-block elements
V. Tsapi Metchop¹, D. Rebiscoul¹, C. Berthomieu², F. Giusti¹, R. Winkler³, A. Leydier³, M. Odorico¹, N. Bremond², P. Gutfrueud⁴
¹ Marcoule Institute in Separation Chemistry (ICSM) - Bagnols-sur-Cèze (FR)
² Bioscience and Biotechnology Institute of Aix-Marseille - Saint Paul-lez-Durance (FR)
³ CEA Marcoule - Bagnols-sur-Cèze (FR)
⁴ Laue Langevin Institute - Grenoble (FR)
- #073** Modification of spin-coated graphene oxide thin films by laser irradiation
V. Vavruňková¹, P. Calta¹, J. Minár¹, Š. Jansová¹, Z. Jansa¹, R. Medlín¹, P. Kožmín², S. Syrovátka², V. Kudrna², P. Zeman³, A. Čermák³, L. Dvořák⁴
¹ Univ. West Bohemia, New Technologies-Research Centre - Plzeň (CZ)
² HOFMEISTER s.r.o. - Plzeň (Czechia)
³ Czech Technical Univ. Prague - Praha (CZ)
⁴ VÚTS, a.s. - Liberec (CZ)
- #132** XPS study of the native oxide layer of Cobalt-Chromium-Iron-Nickel (100)
P. Richter, K. Harsha Kumar, S. Wolff, T. Seyller
Univ. Technology - Chemnitz (DE)
- #204** Karren-inspired periodic nanostructures through ultrafast laser irradiation of randomly assembled carbon nanotubes
I. Bouzroud¹, H. Bruhier², A.S. Loir², D. Pilloud¹, F. Bourquard², J. Ghanbaja¹, S. Migot¹, F. Garrelie², J.F. Pierson¹, C. Donnet², B. Vigolo¹
¹ Institut Jean Lamour - Nancy (FR)
² Univ. Jean Monnet Saint-Etienne - Saint-Etienne (FR)
- #212** Raster reality: <99K euro glow discharge spectrometer for high resolution pixel-by-pixel surface mapping and quantitative thin film analysis
B. Johns¹, P. Konarski²
¹ Spectrometer Experts USA - Cayce (US)
² Łukasiewicz Tele and Radio Research Institute - Warsaw (PL)
- #219** Charge-state equilibration upon irradiation of monolayer graphene with singly or doubly charged swift helium ions
N. Yitzhak¹, O. Girshevitz², A. Haran¹, I. Shlimak²
¹ Soreq NRC - Yavne (IL)
² Institute of Nanotechnology and Advanced Materials, Bar Ilan Univ. - Ramat-Gan (IL)

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

OPTO / Thin films for optics & electronics

- #038** Ionic layer deposition of ultrathin ZnS layers
D. Grynko
Institute of Semiconductor Physics of NAS of Ukraine - Kyiv (UA)
- #057** Low-defect deposition of electrically insulating AlN/Al₂O₃ multilayers with bipolar pulsed magnetron sputtering
S. Bermanschläger¹, F. Bleicher¹, P.H. Mayrhofer²
¹*Institute of Production Engineering and Photonic Technologies, Technische Univ. Wien - Vienna (AT)*
²*Institute of Materials Science and Technology, Technische Univ. Wien - Vienna (AT)*
- #091** Nb-doped TiO₂ films prepared by grid-assisted magnetron sputtering
D. Duarte, F. Alfaro, A. Ramade
Federal Univ. Santa Catarina - Joinville (BR)
- #135** Size-distribution controlled synthesis of TiO₂ and Al_{0.74}Ti_{0.26}O₃ thin films by Mist CVD and applications as gate dielectric layers for MOSFETs
H. Shirai
Graduate School of Science and Engineering, Saitama Univ. - Saitama (JP)
- #150** Combinatorial synthesis of thermochromic W:VO₂ thin films by reactive magnetron co-sputtering
T. Pomone¹, S. Nayak¹, M. Brousse², L. Teulé-Gay¹, M. Maglione¹, F. Le Cras², G. Yildirim², H. Le Poche², A. Rougier¹
¹*Univ. Bordeaux, CNRS, Bordeaux INP, ICMCB, UMR 5026, Pessac (FR)*
²*CEA, CEA Tech en Régions, Nouvelle Aquitaine, Pessac (FR)*
- #180** Al₂O₃ anisotropic multilayer coatings deposited with the GLAD technique
E. Panchout¹, S. Bertet², E. Lavastre², C. Marcel¹, M. Chorel²
¹*CEA DAM Le Ripault - Monts (FR)*
²*CEA DAM CESTA - Le Barp (FR)*
- #198** Cu₂O@CuCrO₂ nanocomposite structure by simple methods as p-type material for transparent and flexible electronics
M. Hanauer¹, M. Belmouhoub¹, A. Rouviller², X. Mescot³, T. Fix⁴, F. Volpi², C. Ternon¹, F. Ducroquet³, J.L. Deschanvres¹
¹*Univ. Grenoble Alpes, CNRS, Grenoble INP, LMGP - Grenoble (FR)*
²*Univ. Grenoble Alpes, CNRS, Grenoble INP, SIMaP - Grenoble (FR)*
³*Univ. Grenoble Alpes, Univ. Savoie Mont-Blanc, CNRS, Grenoble INP, CROMA - Grenoble (FR)*
⁴*Univ. Strasbourg, CNRS, ICube - Strasbourg (FR)*
- #203** Role of crystal orientation in the electrical and optical properties of epitaxial high entropy nitride (TiVZrNbTa)N thin films
M. Pineiro Sales¹, S.E. Benrazzouq¹, G. Steciuk¹, P. Boulet¹, S. Migot¹, S. Petit-Watelot¹, F. Mücklich², J.F. Pierson¹
¹*Institut Jean Lamour – Univ. Lorraine - Nancy (FR)*
²*Saarland Univ. - Saarbrücken (DE)*

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

OPTO / Thin films for optics & electronics (to be followed)

- #218** Nanoscale mapping of dielectric breakdown in polycrystalline thin films using high-voltage conductive AFM
Z. Kudrynskiy¹, T. Cooper¹, Z. Xiang², J. James³, V. Vladimir³, K. Martin², D. David¹
¹ Advanced Materials Research Group, Faculty of Engineering, Univ. Nottingham - Nottingham (UK)
² Centre for Device Thermography and Reliability, Univ. Bristol - Bristol (UK)
³ Park Systems UK Limited, MediCity Nottingham - Nottingham (UK)
- #221** Pulsed bias effects on SnO₂ thin films deposited by ECWR plasma
R. Mekki¹, Z. Hubička², M. Tichý¹
¹ Charles Univ. - Prague (CZ)
² Institute of Physics v. v. i., Academy of Science of the Czech Republic - Prague (CZ)
- #231** Disordered mie-resonant optical thin films for uniform and durable structural color
J-S. Yeo¹, J. Kang¹, S. Moon¹, D. Jin²
¹ School of Integrated Technology, College of Computing, Yonsei Univ. - Incheon (KR)
² Dpt. Nano Science and Engineering, Underwood International College, Yonsei Univ. - Incheon (KR)
- #234** Efficient arc handling in reactive sputtering of oxide films using bipolar and dynamic reverse pulsing power delivery modes
S. Mirzaei¹, U. Krause¹, D. Shaw²
¹ Advanced Energy Industries - Metzingen (DE)
² Advanced Energy Industries - Fort Collins (US)

HELI / Thin films for health & life science

- #033** Identification of asbestos fibres from soil sediments in the Pilsen region of the Czech Republic
Š. Jansová, Z. Jansa, V. Vavruňková, J. Minár
Univ. West Bohemia - NTC Research Centre - Pilsen (CZ)
- #195** AIN thin film architecture for epidermal sensors
S. Mishra¹, O. Azzolini², L. Angioletti², A. Proto³, A. Taibi¹, R. Brancaccio¹, L. Del Bianco¹, F. Spizzo¹, S. Rizzato⁴, M.T. Todaro⁵, A.G. Monteduro⁶, G. Maruccio⁶, A.P. Caricato⁶
¹ Department of Physics and Earth Science, Univ. Ferrara - Ferrara (IT)
² National Institute for Nuclear Physics – INFN, National Laboratories of Legnaro - Legnaro (IT)
³ Department of Neuroscience and Rehabilitation, Univ. Ferrara - Ferrara (IT)
⁴ Department of Mathematics and Physics "Ennio De Giorgi", Univ. Salento - Lecce (IT)
⁵ National Institute for Nuclear Physics – INFN, Section of Lecce - Lecce (IT)
⁶ Department of Mathematics and Physics "Ennio De Giorgi", Univ. Salento - Lecce (IT)
- #197** Stability of layered double hydroxide coatings immersed in buffers and microbial nutritive media
S. Sharma, S. Soulé, F. Quilès
LCPME, UMR 7564, Univ. Lorraine-CNRS - Nancy (FR)

Poster Session #2 – Wednesday 9 June (16:50 – 18:20)

TRIBO / Protective & tribological coatings

- #046** Impact of hot isostatic pressing on the microstructure of AISI 316L austenitic steel processed by laser direct energy deposition
Z. Jansa¹, D. Bricin², D. Janova³, Z. Špirit², P. Beneš², D. Kubatova⁴, J. Kotous⁵
¹ Univ. West Bohemia - New Technologie Research Centre - Pilsen (CZ)
² Centrum výzkumu Rez s.r.o. - Pilsen (CZ)
³ Department of Material Science and Technology, Univ. West Bohemia - Pilsen (CZ)
⁴ Faculty of Mechanical Engineering, Pilsen - Pilsen (CZ)
⁵ COMTES FHT a.s. - Pilsen (CZ)
- #062** Influence of selective Nb⁺ ion acceleration during HiPIMS on the microstructure and mechanical properties of bcc-CrN-rich coatings
S. Jathar¹, S. Honnali¹, A. Febvrier¹, D. Lundin², G. Greczynski², M. Oden³, P. Eklund¹
¹ Inorganic chemistry department - Ångström laboratory, Uppsala Univ. - Uppsala (SE)
² Thin Film Physics Division, Dpt. Physics and Biology, Linköping Univ. - Linköping (SE)
³ Nanostructured Materials Div., Dpt. Physics, Chemistry and Biology, Linköping Univ. - Linköping (SE)
- #070** Coaxial Axisymetrics Magnetron Sputtering (CAMS)
C. Ballage¹, A. Kapran¹, T. Minea²
¹ Centre National de la Recherche Scientifique - Orsay (FR)
² Univ. Paris-Saclay - Orsay (FR)
- #075** Study on property regulation of Diamond-Like Carbon films prepared by RF ion source-assisted High-Power Impulse Magnetron Sputtering (HiPIMS)
X. Liu, J. Dongxu, G. Jianying, M. Guojia
AVIC Manufacturing Technology Institute - Beijing (CN)
- #158** Reassessing temperature requirements during Ar ion etching of cemented carbide cutting inserts in cathodic arc deposition
M. Schiester¹, V. Rudelstorfer², M. Pohler³, C. Czettl³, N. Schalk⁴, M. Tkadletz¹
¹ C. Doppler Lab. Sustainable Hard Coatings, Dpt. Materials Science, Montanuniv. Leoben - Leoben (AT)
² Materials Center Leoben Forschung GmbH - Leoben (AT)
³ CERATIZIT Austria GmbH - Reutte (AT)
⁴ Chair of Functional Materials and Materials Systems, Dpt. Materials Science, Montanuniv. Leoben (AT)
- #162** Towards sustainable hard coatings: Microstructure and thermal stability of TiAlWN thin films
L. Kölbl¹, C. Cui¹, M. Pohler², C. Czettl², M. Tkadletz¹
¹ C. Doppler Lab. Sustainable Hard Coatings, Dpt. Materials Science, Montanuniv. Leoben - Leoben (AT)
² CERATIZIT Austria GmbH - Reutte (AT)
- #205** Enhancement of TBC top-coats via nanolayered YSZ/Al₂O₃ multilayers processed by magnetron sputtering: thermal stability and structural investigation
I. Tourni¹, S. Achache², A. Alhoussein², B. Panicaud¹
¹ Université de Technologie de Troyes (UTT) - Troyes (FR)
² Université de Technologie de Troyes (UTT) - Nogent (FR)
- #235** Investigating the tribo-corrosion performance of (AlCrNbSiTi)N thin films
V. Joru¹, B. Challarapu², S. Katta¹, N.W. P², S.P. Pardhasaradhi¹, V.G. Kotnur¹
¹ Univ. Hyderabad - Hyderabad (IN)
² Int. Advanced Research Centre for Powder Metallurgy and New Materials (ARCI) - Hyderabad (IN)