### 32nd International Conference on Surface Modification Technologies

#### Wednesday

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<td>8h30 - 9h15</td>
<td>Opening Ceremony + Introductory talk T.S Sudarshan (MatMod Inc-USA): “Functional Surfaces through Texture- Role of Processing” - Room 1</td>
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<tr>
<td>9h15 - 10h15</td>
<td>Keynote: 202 Stefano Rossi, Italy, Influence of addition of hard particles on the mechanical and chemical behavior of vitreous enamel</td>
<td>Keynote: 194 Ana Clara Marques, Portugal, Engineered microcapsules for adhesive and self-healing surfaces</td>
<td>Keynote: 273 Mikhail Zheludkevich, Germany, LDH-based active sealing for anodised Al and Mg alloys</td>
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<td>10h20 - 11h00</td>
<td>“Corrosion, mechanical and tribological characterization”&lt;br&gt;Chairs: Mariana H. Staia Edoardo Bemporad</td>
<td>“Hybrid films”&lt;br&gt;Chairs: Carsten Becker-Willinger Ana Clara Marques</td>
<td>“Protective coatings for light alloys”&lt;br&gt;Chairs Suman Shrestha M. Belén García</td>
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<td>233 Gregory Marcos, France, Tribological properties of austenitic stainless steels after surface patterning and plasma-assisted nitriding process</td>
<td>203 Massimo Calvi, Italy, Addition of graphene oxide plates in cataphoretic deposited organic coatings</td>
<td>220 You Zhang, China, Smart protective coating system based on layered double hydroxides</td>
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<td>11h20 - 11h40</td>
<td>Coffee break + Exhibitors + Posters</td>
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<td>11h40 - 12h00</td>
<td>249 Laura Silva Vaca, Argentina, Mechanical and corrosion properties of ion nitried and coated AISI 316L using plasma based ion implantation and deposition</td>
<td>237 Carsten Becker-Willinger, Germany, Self-healing coating based on polyrotaxanes cross-linked with heteropolysiloxanes</td>
<td>197 Stephan Lederer, Germany, Surface modification of Ti 13Nb 13Zr by plasma electrolytic oxidation</td>
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<td>12h00 - 12h20</td>
<td>“Corrosion, mechanical and tribological characterization”&lt;br&gt;Chairs: Mariana H. Staia</td>
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<td>12h20 - 12h40</td>
<td>215 Ivo Černý, Czech Republic, Comprehensive evaluation of properties of laser hard overlaying of H13 steel on structural S355 steel</td>
<td>223 Abdelhamid Boudiba, Belgium, Correlation between mechanical and barrier properties of zirconia and ytrria-doped zirconia thin prepared by sol-gel method</td>
<td>211 Julien Martin, France, Growth of a nano-structured coating during plasma electrolytic oxidation of Al in “soft” regime condition</td>
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<td>306 Fabiola Bruscotti, Spain, Hybrid sol-gel coating system for corrosion protection of steel</td>
<td>288 Vincent Gaud, France, New sol-gel anti-reflective coating for plastic injection molded optical components for LED lighting</td>
<td>218 Anissa Celina Bouali, Germany, Alumina aerogel treatment for in-situ LDH growth on PEO for active corrosion protection of AA2024</td>
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<td>298 Dewis Fiquet, France, Relations between structure, corrosion behaviors and tribological properties for nickel-tungsten alloy coatings</td>
<td>226 Cecilia Agustin Saenz, Spain, Eco-friendly hybrid sol-gel coatings for replacement of Cr-based treatments in medium strength aluminium alloys for space application</td>
<td>282 Carsten Blawert, Germany, PEO processing of Mg alloys</td>
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<td>14h15 - 14h55</td>
<td>Plenary 2: Dr. Keith Parsons (MacDermid Autotype Ltd. - United Kingdom): “Easy clean surfaces for automotive interiors” - Room 1</td>
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<td>15h00 - 15h20</td>
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<td>15h20 - 15h40</td>
<td>222 Pedro Poza, Spain, Erosion of cold sprayed aeronautical coatings</td>
<td>245 Lathe Jones, Australia, Surface modification with noble metals of metal organic frameworks (MOFs) via galvanic replacement</td>
<td>219 Liang Wu, China, Fabrication of Protective Layered Double Hydroxide Films on the surface of anodized magnesium alloys</td>
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<td>14h40 - 16h00</td>
<td>“Corrosion, mechanical and tribological characterization”</td>
<td>“Metal deposition from non conventional techniques”</td>
<td>“Protective coatings for light alloys”</td>
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<td>Chair: Edoardo Bemporad</td>
<td>Chair: Antonello Astarita</td>
<td>Chairs: Mikhail Zheludkevich Leandro González</td>
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<td>16h00 - 16h20</td>
<td>270 Raquel Bayón, Spain, Tribocorrosion of steel and coatings in offshore</td>
<td>280 Piotr Zabinski, Poland, Magnetoelectrochemistry - new way to control morphology of cathodic deposit</td>
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<td>204 Leonardo Bertolucci Coelho, Belgium, Unveiling the effect of the electrodes area on the corrosion mechanism of a graphite - AA2024-T3 galvanic couple by localised electrochemistry</td>
<td>232 Natalia Tsyntsaru, Lithuania, Electrochemical production of cobalt foams for detection of free chlorine in water</td>
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<td>16h20 - 16h45</td>
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<td>9h30 - 10h10</td>
<td>Plenary 3: Werner Richtering, PhD (Atotech Deutschland GmbH - Germany): “Decorative and functional coatings for automotive applications” - Room 1</td>
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<td>10h15 - 10h35</td>
<td>“Corrosion, mechanical and tribological characterization”</td>
<td>“Metal deposition from non conventional techniques”</td>
<td>“Protective coatings for light alloys”</td>
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<td>Chair: Maria Lekka Mustafa Urgen</td>
<td>Chair: Caterina Zanella Andreas Bund</td>
<td>Chairs: Mikhail Zheludkevich M. Belén García</td>
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<td>10h35 - 10h55</td>
<td>269 Edoardo Bemporad, Italy, Micro-scale fracture toughness assessment in thin films: recent advances and future trends</td>
<td>Keynote: 257 Andreas Bund, Germany, Electrodeposition of aluminium alloys from ionic liquids</td>
<td>Keynote: 281 Suman Shrestha, United Kingdom, Advanced ceramic coatings for improving vehicle fuel efficiency</td>
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<td>10h55 - 11h15</td>
<td>198 Rafael Colás, Mexico, Erosion of a converted ceramic coated aluminum alloy</td>
<td>296, Francisco Javier Pérez Trujillo, Spain, Performance of ATiSIn nanostructured coatings on P92 steel for critic oxidation conditions: TG-M5 study</td>
<td>236 Luca Magagnin, Italy, Metallization process of magnesium alloys through fatty acid pretreatment and electroless plating</td>
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<td>231 Burçak Avci, Turkey, Investigations of the galvanic coupling behavior between TiN and TiAIN coatings and steel</td>
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<td>11h40 - 12h00</td>
<td>217 Luca Pezzato, Italy, Effect of pre-oxidation treatment on the corrosion resistance of PEO coatings produced on steels</td>
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<td>11h40 - 12h00</td>
<td>234 Mariana H. Staia, France, Mechanical properties of WC/Co-CNT HVOF sprayed coatings</td>
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<td>11h40 - 12h00</td>
<td>254 Sebastien Touzain, France, In situ monitoring of organic coating swelling by scanning electrochemical microscopy: Influence of water uptake and temperature</td>
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<td>11h40 - 12h00</td>
<td>279 Cristina Díaz, Spain, A comparative study on the behavior of Zr, Ta, Nb and Hf coatings for electrode materials</td>
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<td>12h00 - 12h20</td>
<td>“Corrosion, mechanical and tribological characterization” Chairs: Maria Lekka Mustafa Urgen</td>
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<td>12h20 - 12h40</td>
<td>268 Marco Sebastiani, Italy, Residual stress depth profiling with 50 nm resolution: advances of the ring-core approach</td>
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<td>12h20 - 12h40</td>
<td>310 Caterina Zanella, Sweden, Effect of the electrocrystallization condition on the passivity of Ni matrix composite coatings</td>
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<td>12h40 - 13h00</td>
<td>289 Benoît Ter-Ovanessian, France, Corrosion protection of metallic coatings obtained from electrodeposition in ionic liquids: from aluminium to zinc-aluminium coatings</td>
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<td>12h40 - 13h00</td>
<td>253 Andreas Dietz, Germany, Electrodeposition of aluminium from DMGSO2-based electrolytes at room temperature</td>
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<td>12h40 - 13h00</td>
<td>261 Adriana Ispas, Germany, Niobium electrodeposition in ionic liquids</td>
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<td>12h40 - 13h00</td>
<td>279 Cristina Díaz, Spain, A comparative study on the behavior of Zr, Ta, Nb and Hf coatings for electrode materials</td>
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<td>12h40 - 13h00</td>
<td>230 Aatif Ijaz, Turkey, Nanocomposite coating for corrosion protection of Cu:inhibitor filled SiO2-based nanocontainers in SBS</td>
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<td>14h20 - 15h00</td>
<td>Plenary 4: Dr. Peter Leisner (RISE Research Institutes of Sweden - Sweden): “Aspects to be considered when making innovation out of promising research results in surface technology” - Room1</td>
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<td>15h00 - 15h40</td>
<td>EAST-Schwäbisch Gmünd Prize 2018 award ceremony and conference</td>
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<td>16h25 - 16h45</td>
<td>268 Marco Sebastiani, Italy, Residual stress depth profiling with 50 nm resolution: advances of the ring-core approach</td>
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<td>16h45 - 17h05</td>
<td>310 Caterina Zanella, Sweden, Effect of the electrocrystallization condition on the passivity of Ni matrix composite coatings</td>
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<td>17h05 - 17h25</td>
<td>303 Larraitz Ganborena, Spain, Cupric chloride ions effect on decorative nickel-Chromium multilayer coatings</td>
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<td>“Corrosion, mechanical and tribological characterization” Chairs: Maria Lekka Mustafa Urgen</td>
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<td>16h25 - 17h25</td>
<td>“Metal deposition from non conventional techniques” Chair: Antonello Astarita</td>
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<td>17h25 - 19h25</td>
<td>EAST MEETING (members only)</td>
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<td>20h00 - 00h00</td>
<td>Conference dinner</td>
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<td>9h30 - 10h10</td>
<td>Plenary: Dr.-Ing./PhD Laurent Bortolotto (Airbus Helicopters - France): “Surface treatments and anti-corrosion protections in the Aeronautic industry: Environmental factors, trends &amp; needs for helicopter applications” - Room 1</td>
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<td>10h15 - 10h55</td>
<td><strong>“Corrosion and tribologically protective coatings”</strong>&lt;br&gt;Chairs: Véronique Vitry Luca Magagnin</td>
<td><strong>“Metal deposition from non conventional techniques”</strong>&lt;br&gt;Chairs: Andreas Bund Caterina Zanella</td>
<td><strong>“Omniphobic coatings”</strong>&lt;br&gt;Chair Rosa Di Mundo</td>
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<td>10h15 - 11h15</td>
<td>207 Antonio Mulone, Sweden, Wear resistance of as-deposited and annealed Fe-W coatings electrodeposited from a glycolate-citrate plating bath</td>
<td>256 George Chatzipirpiridis, Switzerland, Electroforming of helical hard-magnetic micromachines</td>
<td>247 Maria Jose Clemente, Spain, Novel surface polymeric coatings with hydrophobic and self-heating functionalities</td>
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<td>10h55 - 11h15</td>
<td>201 Richard Merrill, United Kingdom, Nickel Turmeric composite coatings</td>
<td>196 Luiza Bonin, Belgium, Role of tin as a stabilizer in an electroless nickel-boron plating bath: Electroless NiB-Sn alloys properties</td>
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<td>11h40 - 12h00</td>
<td><strong>“Corrosion and tribologically protective coatings”</strong>&lt;br&gt;Chairs: Véronique Vitry Luca Magagnin</td>
<td><strong>“Replacement of restricted chemical”</strong>&lt;br&gt;Chairs: Carlos Müller Ivan Krasten</td>
<td><strong>“Omniphobic coatings”</strong>&lt;br&gt;Chair Ramón Tena</td>
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<td>12h00 - 12h20</td>
<td>255 Evangelia Pavlatou, Greece, Electrodeposition of carbon based nanocomposites</td>
<td>286 Natalia Kovalska, Austria, Mechanism of iron-phosphorous alloys electrodeposition under direct current from glycine plating baths</td>
<td>258 Francisco Cordovilla, Spain, Robust fabrication of modified wettability surfaces by high intensity nanosecond lasers</td>
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<td>12h20 - 12h40</td>
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<td>264 Aliona Nicolenco, Lithuania, Effect of alumina sub-microparticles on the mechanical, corrosion and tribological properties of electrodeposited Fe-W composite coatings</td>
<td>284 Borja Coto, Spain, Processing technologies and strategies for self-cleaning surfaces: from superhydrophic to hydrophilic surfaces</td>
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<td>12h40 - 13h00</td>
<td>213 Anne Pascale Romano, Belgium, Sodium dodecyl sulfate doped polypyrrole electropolymerized on 316L stainless steel bipolar plates designed for PEMFC</td>
<td>221 Leandro Gonzalez, Spain, Cr(VI)-free sealing process for thin Sulfuric Acid Anodizing (SAA) layers on AA2024</td>
<td>277 Haifeng Zhang, China, Facile preparation of the porous FZCF-surfaces for oil/water separation</td>
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<td>14h20 - 15h40</td>
<td><strong>“Corrosion and tribologically protective coatings”</strong>&lt;br&gt;Chairs: Véronique Vitry Luca Magagnin</td>
<td><strong>Modeling &amp; simulation</strong>&lt;br&gt;Chair: Naroa Imaz</td>
<td><strong>“Surface conditioning ”</strong>&lt;br&gt;Chairs: M. Belén García</td>
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<td>259 Rishi Pillai, Germany, Thermodynamic and kinetic modelling for predicting the degradation of oxidation resistant coatings on high temperature components</td>
<td>212 Wolfgang Hansal, Austria, Post-treatment of 3D-printed metal parts: Support structure removal, surface finishing and corrosion protection</td>
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<td>263 Giovanna Gautier, Italy, Tribological analysis of AlSiCrN coatings for die casting application</td>
<td>205 Haomiao Yuan, Germany, A modified calculation model for the forecast of the wear through of protection coating of electrical connectors</td>
<td>252 Ane Miren Mancisidor, Spain, Effect of surface condition in fatigue performance of selective laser melted Ti6Al4V</td>
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<tr>
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<td>Véronique Vitry, Luca Magagnin</td>
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<td>15h20 - 15h40</td>
<td>283 David Weston, United Kingdom, Electrodeposition of nano composite Co-SiC coatings by pulse reverse plating</td>
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<td>16h00 - 16h30</td>
<td>Closing ceremony and best poster awards</td>
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**Poster teasers 1**

**Wednesday, June 27, 15h00 - 15h20 Room 1**

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<td>Yin-Yu Chang</td>
<td>Mechanical properties and tribological performance of TiVN hard coatings synthesized by cathodic arc evaporation</td>
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<td>Rosa Griñon Echaniz</td>
<td>Effect of seawater constituents on the performance of thermal spray aluminum (TSA) in marine environments</td>
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<td>Jonathan León</td>
<td>Corrosion resistance and semiconducting properties of chromium electrodeposits obtained from model electrolytes</td>
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<td>Yelena Sverdlov</td>
<td>Characterizing of self-assembled monolayer barriers by XPS and KPFM</td>
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**Poster teasers 2**

**Wednesday, June 27, 15h00 - 15h20 Room 2**

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<tr>
<td>Tomasz Tanski</td>
<td>Grade 1 titanium microstructure and properties investigation after FeCr powder alloying using high power diode laser</td>
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<td>Loïc Prince</td>
<td>Effect of the electrolyte nature on corrosion of anodizing AZ31 magnesium alloy</td>
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<td>Wanying Liu</td>
<td>Corrosion and wear behavior of PEO coatings with different concentration graphene on D16T aluminum alloy</td>
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<td>Natalia Tsyntsaru</td>
<td>Leaching of Tin and lead from e-waste and electrowinning in the environmentally friendly solutions</td>
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**Poster teasers 3**

**Wednesday, June 27, 15h00 - 15h20 Room 3**

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<td>Mireille Poelman</td>
<td>Application of coating technologies to improve the performance of cooling systems in power plants</td>
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<tr>
<td>Marta Fenero</td>
<td>Laponite-based multifunctional surfaces: repellence to solids and liquids</td>
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<td>Rosa Di Mundo</td>
<td>Soft blasting of Al alloys: Aesthetic effects and wetting behaviour over time</td>
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<tr>
<td>Liene Pluduma</td>
<td>Influence of polymer surface energy on sliding speed</td>
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<td>Mariana H. Staia</td>
<td>Residual stresses in electroless nickel coatings</td>
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<td>Ieva Stafecka</td>
<td>Investigation of steel topography for hydrophobicity and longevity</td>
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<td>Celine Arrighi</td>
<td>Electrodeposition of Zn-Fe coatings</td>
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<td>Asier Salicio</td>
<td>Effect of annealing on the mechanical properties and corrosion resistance of multilayered electroless coatings</td>
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<tr>
<td>Reinhard Böck</td>
<td>Polarisation phenomena During Pd Deposition from ionic liquids</td>
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<td>Mila Manolova</td>
<td>Pd-Alloys Deposition from ionic liquids</td>
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<td>Sang-Hoon Yoon</td>
<td>HVOF and Cold Spray Coating Technology to Improve the Performance of Resistance Welding Electrodes</td>
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<td>Justine Rodriguez</td>
<td>Development of a self-healing coating for the corrosion protection of Zn-Mg coated steel</td>
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<td>Cristina Navarro Senent</td>
<td>Magneto-electric properties of nanoporous Co-Pt dots synthesized by micelle-assisted electrodeposition on lithographed substrates</td>
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