

Posters

July 20th, 2022



Area A1-A5

ID	Author	Title	Affiliation
6	Lydia Daum	Microstructural influence on the growth of anodic aluminum oxide	Westfälische-Wilhelms-Universität Münster, Germany
38	Lukas Schweiger	Hydrogen storage in porous metal hydride - polymer hybrid materials	Montanuniversität Leoben, Austria
155	Kirill Keller	Fully-Printed Single Channel P(VDF-TrFE) Transducer for Ultrasound Applications	Graz University of Technology, Austria
29	Joana Figueira	Composites based on PDMS and Graphite Flakes for Thermoelectric Touch Detectors Applications	CENIMAT i3N, Portugal
43	Raquel Barras	Porous PDMS conformable coating for high power output carbon fibers/ ZnO nanorod-based triboelectric energy harvesters	CENIMAT i3N, Portugal
161	Fabio Lazzari	Modeling and state estimation for the advanced control of a multimaterial shape memory based actuator	Institute of Condensed Matter Chemistry and Technologies for Energy, Italy
93	Kai Steffens	Improving the properties of flexible hybrid-silica aerogels	University of Cologne, Germany
58	António Vale	Cork functional sodium-rich ferroelectric solid state structural batteries	University of Porto, Portugal
60	José Carvalho	Direct growth of MoS ₂ nanostructures on carbon fiber yarns for supercapacitors	CENIMAT i3N, Portugal
104	Joana Ribeiro	Transparent Niobium-doped titanium Dioxide Thin Films with high Seebeck coefficient for thermoelectric applications	University of Minho, Portugal

142	Sara Elias	Mechano-synthesis of an equimolar Li-Sn alloy	University of Lisbon, Portugal
144	Eva Raudonytė-Svirbutavičienė	The effect of smaller and larger ions on the hydrothermal synthesis of doped hydroxyapatite	Vilnius University, Lithuania
145	Diego López-Carballeira	Fully DFT large-scale pursue of singlet fission sensitizers	Czech Technical University, Czechia
77	Takeru Omiya	Development of amphiphilic polymeric additives for lubricant formulations using SARA ATRP	University of Coimbra, Portugal
171	Carlos Herreros-Lucas	Dynamic Host-Guest Hydrate Fluid	Universidade de Santiago de Compostela, Spain
178	Manuel Jácome	Effect of Heat Treatments on the Mechanical Properties and Microstructure of Open-Cell Al 7075 Foams	Universidad Nacional Autónoma de México, México
179	Diana Faria	Yttria/ceria stabilized zirconia composites: evaluation of microstructural, mechanical and color properties for biomedical applications	University of Minho, Portugal
190	Paulo Nunes	Cinnamomum camphora leaves as templates for the preparation of hydrophobic films	University of Trás-os-Montes and Alto Douro, Portugal
197	Chrysa Aivalioti	Investigation of Nb doped NiO films for photovoltaic applications	Institute of Electronic Structure and Laser, Greece
198	Paulo Nunes	Study of the wettability of films obtained by the replication of the surface of plant	University of Trás-os-Montes and Alto Douro, Portugal
209	Mariana Carvalho	A novel surface modified paper with multifunctional antimicrobial, antiviral, and traceable properties	University of Minho, Portugal
221	Priscilla Brosler	Si ₃ N ₄ -TiN substrate for BDD electrodes: from cutting tools and biomedical applications to water treatment	University of Aveiro, Portugal
226	Inês Cunha	Healable and recyclable cellulose-based ionic conductors for sustainable electronics on paper	NOVA University Lisbon, Portugal
236	Joana Figueira	Optimization of flexible and eco-friendly thermoelectric touch detectors based on ethyl cellulose and graphite flakes	

Area B

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2	Franky Witzke	Compressive strength, water absorption, surface hardness and abrasion resistance of geopolymer concretes	Federal University of Paraná, Brazil
48	Noelia Solis	Effect of liquid metal on fatigue life of structural materials: an environmental factor approach	SCK CEN, Belgium
54	Nikolaos Michailidis	Preparation of an automatic applicator for ink-coating of glass substrates for LIFT-printing of electronics	Aristotle University of Thessaloniki, Greece
65	Max Geilen	Medium carbon steels: when and why do low loads and holding times increase lifetime?	Technical University of Darmstadt, Germany
35	Kristián Šalata	Influence of oxygen on the structure of orthorhombic martensitic phase in titanium alloys	Charles University, Czechia
53	Ömer Koç	Spatially resolved investigation of irradiation damage and hardening on proton irradiated Zirconium alloys	University of Manchester, United Kingdom
22	Pamela Camilos	Atomic-scale modeling of diffusion in concentrated alloys	Université Paris-Saclay, France
82	Patrick Curran	An investigation into the effect of microtextured regions on the fatigue properties of forged titanium	University of Manchester, United Kingdom
203	Mobeen Haneef	Multilayer Ti-DLC/ DLC coatings deposited by DC magnetron sputtering	University of Leeds, United Kingdom
128	Diaa Mereib	The designing of concentrated complex alloys new (CCA) for light armor applications	Paris-Est University, France
115	Snezana Reljic	Carbon-based monoliths with improved thermal and mechanical properties for methane storage	Universidad de Alicante, Spain
158	Jacopo Romanò	Mechanical and microstructural effects of new thermomechanical treatments to boost damping of Beta III titanium	Institute of Condensed Matter Chemistry and Technologies for Energy, Italy

137	Jessica Tjandra	Effect of simulated body fluid on additively manufactured Ti-6Al-4V under mechanical load	Imperial College London, United Kingdom
160	Aikaterini Baxevani	Corrosion behavior of stainless steels in CO2 absorption process using aqueous solution of monoethanolamine (MEA)	Aristotle University of Thessaloniki, Greece
202	Damian Migas	Effect of rare earth elements on microstructure and oxidation resistance of γ - γ' Co-based superalloys	Silesian University of Technology, Poland
204	Justyna Kuczek	Structure, stability, and dissolution mechanism of multicomponent cobalt phosphate-silicate glasses	AGH University of Science and Technology, Poland
205	Rostislav Králík	Characterization and properties of dilute twin-roll cast materials based on the AA2195 aluminum alloy	Charles University, Czechia
212	Karol Janus	Effect of controlled thermomechanical heat treatment of nanobainitic steel on the microstructure and mechanical properties	Institute of Metallurgy and Materials Science, Poland
231	Bharvi Chikani	Investigating the interplay and interface of water and carbon species	University College London, United Kingdom

Area E

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81	Gianluca Dall'Osto	Self-Reduction Behavior of Finnish and Italian Jarosite Plus Blast Furnace Sludge Mixtures	Politecnico di Milano, Italy
134	Patricia Wolf	Alginate as an additive for switchable and improved biodegradation of biocomposites	Technical University of Munich, Germany
152	Felix Eckel	Molecular weight distributions and critical molecular weights in biodegradation processes of polymers	Technical University of Munich, Germany
215	Teshan Rezel	Using Advanced Image Processing to Characterise the Performance of Metallurgical Coke in Blast Furnaces	The University of Nottingham, United Kingdom
229	Lara Castanheira	Direct Energy Deposition of AISI 303 Stainless Steel Powder Particles from Recycled Machining Chips	University of Porto, Portugal

