

Poster Session 1 (April 4th - Tuesday)

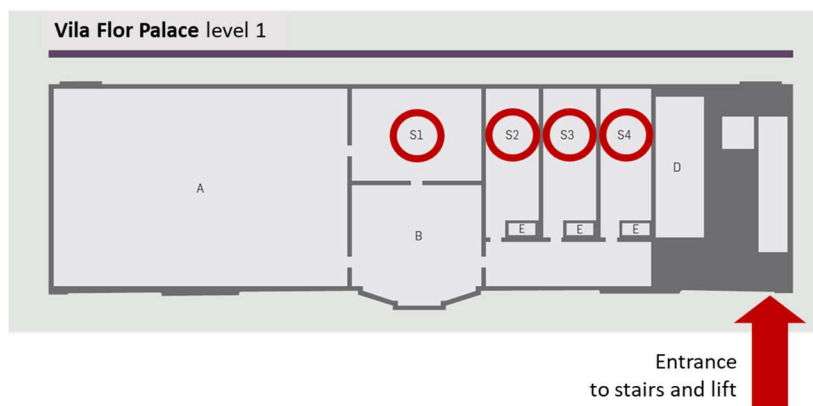
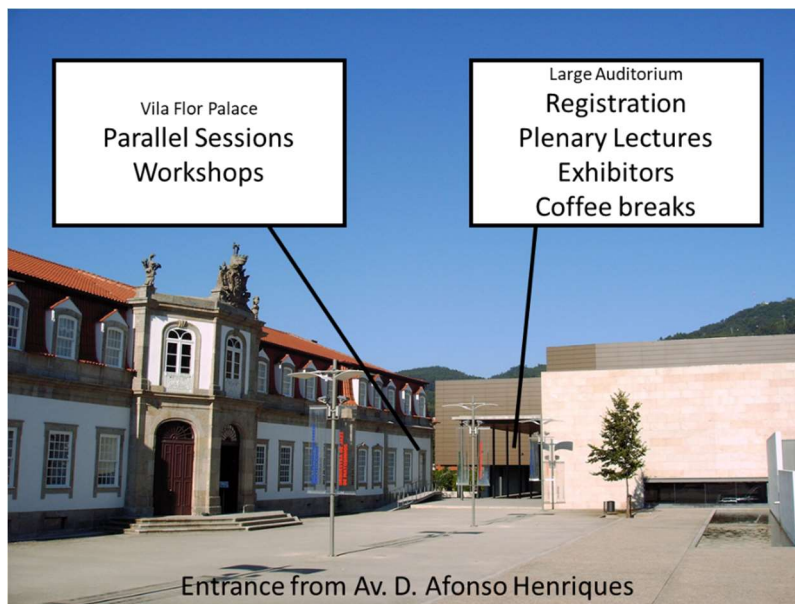
	Poster Panel No.	Poster Number	Title	Author/Affiliation
Materials for Environmental Protection and Remediation	1	44	Cork formulations based on thermoplastic starch for additive manufacturing	Luiza Melo de Lima (UA/Portugal)
	2	59	Lime ash waste from the cellulose industry as raw material in rehabilitation mortars	Paula Seabra (UA/Portugal)
	3	99	Recycling Polyurethane and Thermoplastic Urethane Waste from External Prostheses for the Manufacture of Filaments for 3D Printing	Daniela Leal (INEGI/Portugal)
	4	28	Analysis and characterization of microplastics in beach sediments from coastal environments of Northern Portugal	Inês Machado (UM/Portugal)
	5	23	Electroconductive silicon nitride ceramic: a novel substrate material for BDD electrodes for water remediation	Filipe Oliveira (UA/Portugal)
	6	17	Analysis of microplastics in a commercial exfoliating product	Daniel Ribeiro (PIEP/Portugal)
	7	67	Microplastics in Marine Environment: Establishing a Methodology for Sampling and Analysis	Rui Sousa (UM/Portugal)
	8	59	Development of eco-cement with Municipal Solid Waste Incineration Bottom Ash	Paula Seabra (UA/Portugal)
	9	29	Upscaling photodegradation of organic micropollutants	Inês Oliveira (UA/Portugal)
	10	73	Removal of phosphate from eutrophic waters using lamellar double hydroxides of MgAl	Tiago Farraia (UA/Portugal)
	11	22	Techniques for rapid identification of recycled PP	Filipa Rocha (UM/Portugal)
	12	79	Incorporation of recycled PET in new materials for Additive Manufacturing	Sofia Sousa (UA/Portugal)
	13	81	Polyethylene terephthalate glycol degradation effects on material morphology	Chiara Fiorillo (Ghent Univ /Belgium)
	14	93	Spent filtering earths as precursor in the synthesis of geopolymers or alkali activated materials. Effect of sodium hydroxide-sodium silicate solutions ratio on	P. Delgado-Plana (Univ. Jaén /Spain)
	15	101	New technologies for the energy and circular transition - the demand of Mineral Resources	José Miguel Martins (DGEG/Portugal)
	16	102	Effect and characterisation of a natural based terpenoid on the mechanical properties of PLA and tangerine peel flour green composite	Juan Ivorra Martinez (Univ. Polytechnic Valencia/Spain)
	17	109	Environmental Impact Assessment on the Production of a Fire Curtain	L. Nascimento (CVR/Portugal)
	18	110	Life Cycle Assessment of a Pavement with industrial waste incorporation	L. Nascimento (CVR/Portugal)
	19	113	Last decade of research on cork use in adsorption applications	Raquel N. Silva (CTCOR/Portugal)
	20	117	A methodology to foster plastics recycling	Sibele Cestari (UM/Portugal)
Biomedical, Bio-Derived, and Bio-Inspired Materials	21	68	Preparation of flexible Leather-Polymer Composites adapted for Additive Manufacturing	Sílvia Abrantes (UA/Portugal)
	22	55	A preliminary study of PLLA coating in Ti-alloy substrate for application in bone implants	Noelle C. Zanini (UA/Portugal)
	23	18	Sustainable functionalisation of stents to prevent urinary tract infections	Daniela Santo (UC/Portugal)
	24	43	Bio-based expanded cork polymer composites (eCPC) with poly(lactic acid) (PLA) for injection moulding	Lisete Moutinho (UA/Portugal)
	25	64	Biodegradable agricultural mulch films loaded with bionematicides - a novel strategy to control root-knot nematodes	Rita Chim (UC/Portugal)
	26	51	Optimization of melt processing, drawing and stabilization of ligninbased green fibers	Miguel Guerreiro (PIEP/Portugal)
	27	7	Hap deposition on PCL/CH 3D Scaffolds for tissue regeneration	André F. P. Lopes (UA/Portugal)
	28	52	Hollow and non-hollow bioceramics porous microspheres for bone regeneration	Miguel Rodrigues (FEUP/Portugal)
	29	19	Nanomaterial-Based Biosensor Development: Application of Plasmonic Thin Film for Optical Detection Purposes	Diana I. Meira (UM/Portugal)
	30	41	PLLA-316L Stainless Steel Piezoelectric Device Potential Towards Next-Generation Bone Implants	Julio Rocha (UA/Portugal)
	31	33	Cork and MoS2 Composite – A Novel Green Material Suitable for Thermoelectric Sensing Applications	Joana Figueira (UNL/Portugal)
	32	75	Chitosan-based magnetic aerogels for bone tissue engineering	Marta Corvo (UNL/Portugal)
	33	42	Development of drug-loaded gelatin spheres for incorporation into bone-like composite scaffolds	Júnia Rodrigues (UA Portugal)
	34	9	Development of a wearable sensor to monitor pulmonary function	Bernardo Vicente (UA/Portugal)
	35	58	ZnO-based coatings to reduce microbial growth on high-touch surfaces	Patrícia P. Silva (UM/Portugal)
	36	74	Composite materials using banana tree and sugarcane agro wastes	Tiago Fernandes (UM/Portugal)
	37	20	LSPR-based optical transducers for biosensing using magnetron sputtered nanocomposite thin films	Diogo Costa (UM/Portugal)
	38	87	Synthesis of Biobased TPUs by Reactive Extrusion	Ana R. Torres (UM/Portugal)
	39	103	Mechanical behavior of poly(lactic acid) biocomposites reinforced with Posidonia oceanica wastes and plasticized with cinnamic acid esters	Jaume G. Caturla (Univ. Polytechnic Valencia/Spain)
	40	104	Biopolymers with biological additives for plant nutrition in aquatic environment	A C Machado (UMinho/Portugal)
	41	108	Nanocomposite foam-coated fabrics for biological protective clothing	Inês Moreira (Fibrenamics-UMinho/Portugal)
	42	126	Poly(Ionic Liquid) derived materials for Tissue Engineering applications	Marta Corvo (UNL/Portugal)

Materials & Cultural Heritage	43	25	VTERE-FELICITER: The materiality of a Portuguese archaeological Roman glass collection conservation and restoration case-study	Inês Coutinho (UNL/Portugal)
	44	69	Late Bronze Age metals from Monte Cavalo (Vouzela, Viseu): characterization of the copper-based alloy and its corrosion	Sofia Serrano (UNL/Portugal)
	45	105	Study on grisaille paint layers stability under natural conditions	Carla Machado (UNL/Portugal)
	46	125	Bedding mortars from medieval ceramic flooring from the Alcobaça Monastery in Portugal	Fernanda Carvalho (UNL/Portugal)
Materials for Mobility	47	92	Application of micro-level indicators for circularity in the automotive industry: case studies of plastic products	Joana Matos (UM/Portugal)
Materials for Energy & Power Generation	48	3	Exfoliated carbon yarn structure for highly stable flexible supercapacitors electrodes in simulated sweat solutions	Amjid Rafique (UNL/Portugal)
	49	57	Transverse magnetic susceptibility and relaxation in Li ferrite nanoparticles	Pablo Hernández-Gómez (Univ. Valladolid/Spain)
	50	49	Comparison of different pseudocapacitive red-ox mediator electrodes in decoupled water electrolysis	Martins Vanags (Riga Technical Univ./Latvia)
	51	45	Use of ultra-small TiO2 anatase nanoparticles in energy applications	Mairis Iesalnieks (Riga Technical Univ./Latvia)
	52	34	Green cellulose-based polymer electrolyte suitable for e-Textiles	João Carmo (UNL/Portugal)
	53	27	Processing of flexible PDMS/KNN/G piezocomposites for energy harvesting enhancement	Inês Loureiro (UA/Portugal)
	54	12	Composite Hull for Wave Energy Converters	Diogo Vale (CorPower Ocean/Portugal)
	55	4	All-fibre Photovoltaic Storage Devices for e-Textiles	Ana Baptista (UNL/Portugal)
	56	62	Enhancement of power conversion on single electrode yarn shaped triboelectric generators	Raquel Barras (UNL/Portugal)
	57	11	Application of binary PdSb/C as an anode in a polymeric electrolyte reactor -fuel cell type for electrosynthesis of methanol from methane	Camila Godoi (Univ. São Paulo/Brazil)
	58	32	Methane-to-methanol conversion and power co-generation on PdNi supported on ATO electrocatalysts in a polymeric electrolyte reactor-fuel cell (PER-FC)	Jéssica F. Coelho (Univ. São Paulo/Brazil)
	59	111	High porosity biowaste electrocatalyst for seawater batteries	João P. Ferreira (FCUP/Portugal)
	60	112	Wool based battery separator for energy storage applications	João Serra (UM/Portugal)
	61	128	Light-cured and biosourced polymer electrolytes for aqueous photovoltaics	Federico Bella (Politecnico Torino/Italy)

Poster Session 2 (April 5th - Wednesday)

	Poster Panel	Poster Number	Title	Author/Affiliation
Materials for Digital Transformation	1	10	Study of fiber-based capacitive sensors for wearable applications	Bernardo Vicente (UA/Portugal)
	2	54	Development of a sol-gel film for digital inkjet printing on impermeable tableware ceramic surfaces	Monique Dias (UA/Portugal)
	3	26	Sensing light on paper: Tunable optoelectrical resistor switch as load resistance for digital photoelectronics on paper	Inês Cunha (UNL/Portugal)
	4	100	Characterization of resins to DLP 3D print porous structures: the effects of post-curing and cleaning time on the technological properties of materials	Leonardo Santana (FEUP/Portugal)
	5	124	Low Temperature Sintering of Printed Zinc Oxide Nanoparticle Layers towards Printed Electronics	Madalena Roque (UNL/Portugal)
Materials for structural and multifunctional applications	6	63	Influence of Cr and V on quaternary FeTiTaW alloy	Ricardo Martins (IST/Portugal)
	7	30	Increasing habitat safety by integrating technological solutions into ceramic materials	Inês Rondão (CTCV/Portugal)
	8	16	Behavior of screen-printed carbon-based inks over different stretchable polymeric substrates	Cláudia Buga (DTX/Portugal)
	9	15	Design of Hybrid MWCNT/Ferrite Nanomaterials for Electromagnetic Shielding Textile Applications	Clara Pereira (FCUP/Portugal)
	10	37	Silicon nitride-based suspensions for vat photopolymerization – a study	João Pereira (UA/Portugal)
	11	61	Development of a fully function food packaging for orange juice	Pedro Rodrigues (UM/Portugal)
	12	8	Kinetics of first-order phase transitions on magnetic materials for energy applications: magnetization and atomic structure	André Beleza (FCUP/Portugal)
	13	38	Development and characterization of fire-retardant polyurethane foams	Jocyla R. Manhique (IPB/Portugal)
	14	14	Development of e-skin adhesives based on eco-friendly polyurethane (PU)	Cidália Castro (UM/Portugal)
	15	5	Influence of suspensions additives in the rheological behaviour of glazes for stoneware	Ana Caetano (UA/Portugal)
	16	70	Exfoliation of layered double hydroxides for application in nanocomposites	Sofia Silva (UA/Portugal)
	17	48	Preliminary assessment on the utilization of biomass fly ash in the production of controlled low-strength materials	Marinélia Capela (UA/Portugal)
	18	31	Alternative sintering of ceramics by Flash sintering: a case study of alumina	Ines Vilarinho (UA/Portugal)
	19	6	Application of Adiabatic Temperature Rise Method for Fast Kinetics TPUs Formulation Development	Ana C. Lima (IPB/Portugal)
	20	50	Synthesis and characterization of semiconducting diamond membranes for electro-optical biosensors	Miguel A. Neto (UA/Portugal)
	21	2	Defects analysis and solidification simulation of aluminium mechanical component, manufactured by HPDC	Alexandre Velhinho (UNL/Portugal)
	22	53	Mechanical performance of silicon nitride parts made by robocasting	Mónica Faria (UA/Portugal)
	23	47	Transparent hydrophobic silica-based coatings	Mariana R. Silva (UA/Portugal)
	24	21	One-step Synthesis of Diamond-Carbon Nanofiber Composites	Eduardo Silva (UA/Portugal)
	25	35	Validation of An In-Line Slit Microrheometer Coupled to A Microextruder for 3D-Printing Filament Production	João D. Sousa (UM/Portugal)
	26	46	Magnetic thermoplastic polyurethane composites	Mariana M. Silva (UM/Portugal)
	27	71	Effect of solvent vapor annealing on optical properties and surface adhesion of conjugated D:A thin films	Taina Casagrande (Univ Fed Tecn Curitiba/Brazil)
	28	65	Effect of laser parameter on plastic injection mould' cleaning	Rodrigo Santos (UA/Portugal)
	29	76	Strategies to modify the leather conductivity towards wearable sensor applications	Vitor Sencadas (UA/Portugal)
	30	36	CoFe2O4\BaTiO3 Bilayers deposited by laser ablation over SrTiO3 substrates	João M. Oliveira (UM/Portugal)
	31	13	Thermoformability of polycarbonate substrates with silver-based conductive ink for in-mould electronics applications	Catarina Ribeiro (UM/Portugal)
	32	80	Characterization of printed films with conductive silver-based inks via screen-printing used for functional parts	Catarina Ribeiro (UM/Portugal)
	33	84	Prediction of alloying elements' effects on the structural properties of NbMoTaWX (X = Al, Ti, V, Cr, Zr, and Y) using the CALPHAD method	Bernardo Ribeiro (FEUP/Portugal)
	34	90	Structural and Dielectric Properties of Electrospun LiNbO3-CoFe2O4 Composite Nanofibers with Different Co-Ferrite Concentrations	Tiago Rodrigues (UM/Portugal)
	35	91	Resistance Spot Welding Parameters Optimization Using Taguchi Method	Gonçalo A. Amorim (ISEP/Portugal)
	36	98	Impact of gas tungsten arc welding on the microstructure and mechanical performance of a newly developed Cr29.7 Co29.7Ni35.4Al4Ti1.2 multi-principal	João G. Lopes (UNL/Portugal)
	37	114	Microstructure and Mechanical Properties of Gas Metal Arc Welded CoCrFeMnNi Joints Using a 410 Stainless Steel Filler Metal	Jiajia Shen (UNL/Portugal)
	38	115	Development of Polymeric Material Systems with Metallic Aspect	L. Pedroso (UM/Portugal)
	39	116	From Transparent to Translucent: a Route Towards Multifunctional Parts Injected with a Single Material	L. Pedroso (UM/Portugal)
	40	118	Electroplated Ni-Al2O3 Nanocomposite Coatings on AA6082	Ruben Santos (FEUP/Portugal)
	41	119	Characterisation of low-carbon steel reinforced with TiC and WC particles	Aida Moreira (FEUP/Portugal)
	42	120	Using lignin and coffe grounds as bio-additives for PLA processing by FDM 3D-printing	Silvia L. Rivera (Univ. Coruna/Spain)
	43	122	Development of different wheelchair cushions for pressure ulcer prevention: Preliminary user evaluation	Silvia Ferreira (Fibrenamics-UM/Portugal)
	44	123	Multilayer Composites for Application in Bulletproof Vests	Maurício Malheiro (UM/Portugal)

Materials Processing	45	66	Reuse of plastic injection moulds by degraded coating removal through laser technology	Rodrigo Santos (UA/Portugal)
	46	72	Synthesis and application of monolith Silica/Pebax aerogel for CO2 adsorption under high pressure	Thauane Selva (UNIT/Brazil)
	47	77	The influence of the material and processing conditions in injection moulding high-gloss parts	Cláudia Freitas (UM/Portugal)
	48	78	Integration of multi-material and advanced processing concepts in a single moulding step	Tiago F. Fernandes (UM/Portugal)
	49	83	Thermoformability of biopolymer composites with coffee husk	Filipa Rocha (UM/Portugal)
	50	96	Effect of mold material on mechanical properties and morphology of short carbon fiber reinforced ABS	Ellen Fernandez (Ghent Univ/Belgium)
	51	97	Microstructure evolution of WAAM fabricated HSLA steel during uniaxial load	Igor Felice (UNL/Portugal)
	52	106	Production and Characterization of Jute Reinforced Composites with Thermoplastic Matrix	Ana R. Carreiras (ISEP/Portugal)
	53	107	Influence of Moisture on the Mechanical Behavior of Composite Materials Produced by Manual Molding	Gabriela Pinheiro (ISEP/Portugal)
	54	127	Exploring Flash sintering as a processing technique of porcelain-based materials	Camila Ribeiro (UA/Portugal)
Sensors & Actuat.	55	89	Electrical response to moisture of pure polyantimonic acid-based sensors	Sofia R. Mendes (UC/Portugal)
Industrial Forum	56	121	Development of polypropylene compound with natural fibres and recycled thermoplastic with glass fibre for automotive applications: A competitive alternative to polyamide 6	Clara Gonçalves (PIEP/Portugal)



General Instructions for Authors

Plenary lectures – 40 minutes presentation + 5 minutes discussion, total duration: 45 minutes

Keynote lectures – 25 minutes presentation + 5 minutes discussion, total duration: 30 minutes

Oral presentations – 15 minutes presentation + 5 minutes discussion, total duration 20 minutes

Please make your presentation within the allocated time. This is important, as participants may wish to follow presentations in different rooms. Chairpersons will be instructed to keep times under control.

Please bring your presentation in a pen drive and upload it in the computer available in the assigned room before your session starts. A member of the staff will be available to help you.

Posters – posters must be printed in A0 format [1189 mm (height) x 841 mm (width)]. No specific template is defined. The posters must be placed by the authors in the pre-defined area and removed at the end of the session.