

MAIN THEME	TOPIC	BOARD NUMBER	POSTER AREA	Abstract title	Presenter Name	Presenter First Name	Country
Industrial applications	Aerospace - aeronautics	P001	R0	Characterization of Ultrasonic Welding Bonds in Hybrid Composites – Realisation and Feasibility of a Novel Joining Process in Aerospace Application	CHALOUPKA	Niklas	Germany
Industrial applications	Aerospace - aeronautics	P002	R0	MULTI-SCALES STUDY OF CERAMICS COMPOSITE MATERIAL FOR AERONAUTICAL APPLICATIONS	DENNEULIN	Sébastien	France
Industrial applications	Aerospace - aeronautics	P003	R0	Challenges of hydrogen composite cryogenic storage for aeronautics	MORETTI	Laure	France
Industrial applications	Aerospace - aeronautics	P004	R0	Breaking the Ice: Advancements in De-Icing applications in CF/PEEK laminates with Metallic Integration and improvement in metal polymer bonding	RAJ	Rishi	India
Industrial applications	Ground based transportation: Automotive, Trains, Buses, Trucks	P005	R0	Prediction of the mechanical behavior of Passenger airbag module by design factors based on deep neural network	KIM	Gyuwon	Republic of Korea
Industrial applications	Ground based transportation: Automotive, Trains, Buses, Trucks	P006	R0	Development of an innovative lightweight suspension arm based on Thermoplastic Resin Transfer Molding (T-RTM) for electrical vehicle.	RODRÍGUEZ-SENÍN	Elena	Spain
Industrial applications	Marine	P007	R0	SOLUBILITY CHARACTERISTICS OF GRAPHENE NANO-FILLER IN VARIOUS SOLVENTS FOR SUBMARINE CABLE PROTECTION MATERIALS	CHOI	SUNGWOONG	Republic of Korea
Industrial applications	Renewable energies	P008	R0	Design and Analysis of Wind Turbine Blade Considering on Separation of Composite Blade for Transportation	HYUNBUM	Park	Republic of Korea
Industrial applications	Renewable energies	P009	R0	Development of high-performance bipolar plates by electrode integration for vanadium redox flow batteries	LIM	Jun Woo	Republic of Korea
Industrial applications	Renewable energies	P010	R0	Investigation on optimal location of separation part for large scale wind turbine blade	WOOSEONG	Jeong	Republic of Korea
Industrial applications	Medical	P011	R0	Composite hydrogels based on modified chitosan with haemostatic and antimicrobial activity	TERZOPOULOU	Zoi	Greece
Material science	Fibers & textiles	P012	R0	Characterization and optimization of the forming behavior of the textile preforms by trimming	HU	Jian	France
Material science	Fibers & textiles	P013	R0	APPLICATIONS OF PLASMA TREATMENT OF RECYCLED CARBON FIBRES	NOVOTNÁ	Jana	Czech Republic
Material science	Fibers & textiles	P014	R0	Approach to reduce environmental impact of fiber reinforced plastic by using Flat glass fiber	NUKUI	Yosuke	Japan
Material science	Fibers & textiles	P015	R0	In-Line Drying of Glass Fibres by High Frequency Infrared Radiation	SZARKO	Pascal	Germany
Material science	Fibers & textiles	P016	R0	Determination of reinforcing fiber fineness – comparison of measurement methods, their accuracy, advantages and limitations	TOMKOVA	Blanka	Czech Republic
Material science	Fibers & textiles	P017	R0	Experimental investigation on dry or impregnated tow mechanical behaviour under multiaxial loads	VALETTE	Julien	France

MAIN THEME	TOPIC	BOARD NUMBER	POSTER AREA	Abstract title	Presenter Name	Presenter First Name	Country
Material science	Matrix materials: polymers, metals, ceramics, concrete, geopolymer	P018	R0	Fabrication and Damping Capacity of Short Alumina Fiber and VGCF Hybrid Reinforced Aluminum Alloy Composites	ASANO	Kazunori	Japan
Material science	Matrix materials: polymers, metals, ceramics, concrete, geopolymer	P019	R0	Reduction of environmental impact of epoxy resins used in composite materials	CAFARO	Fabrizio	Italy
Material science	Matrix materials: polymers, metals, ceramics, concrete, geopolymer	P020	R0	Modification of Thermoplastic Starch with Chain Extenders to its thermal, barrier and mechanical properties	KIM	Kyeongmin	Republic of Korea
Material science	Matrix materials: polymers, metals, ceramics, concrete, geopolymer	P021	R0	Advanced lightweight of battery tray for electric vehicles (ALBATROSS Project)	RODRÍGUEZ	Paula	Spain
Material science	Matrix materials: polymers, metals, ceramics, concrete, geopolymer	P022	R0	Change in the physical properties of plaster composites reinforced with carbon fibers.	SAMKOVÁ	Alžbeta	Czech Republic
Material science	Matrix materials: polymers, metals, ceramics, concrete, geopolymer	P023	R0	Solvent-based Multiple Cycle Recovery and Reprocessability of Glass Fibre Reinforced Elixir: Evaluation of Thermomechanical Properties	SHAMMI SULTANA NISHA	Shammi	Australia
Material science	Matrix materials: polymers, metals, ceramics, concrete, geopolymer	P024	R0	A new thermoplastic matrix resin with good interfacial strength to carbon fiber reinforcements for structural composites	YI	Jin Woo	Republic of Korea
Material science	Matrix materials: polymers, metals, ceramics, concrete, geopolymer	P025	R0	Tannic acid: An interesting natural filler for HDPE	ZAMBOULIS	Alexandra	Greece
Material science	Interfaces	P026	R0	The effect of microwave power levels on the carbon nanotubes growth over the carbon fiber surface using microwave irradiation	SHADAB ANSARI	Mohd	India
Material science	Interfaces	P027	R0	A Python Computer Vision Approach for Crack Opening Displacement-based Fibre Bridging Evaluation in Composite Materials	SUTCU	Christopher	United Kingdom
Material science	Interfaces	P028	R0	Sustainability of hybrid materials: Approaches to manufacture and characterize fiber-metal laminates with activatable interfaces	TRAUTH	Anna	Germany
Material science	Interfaces	P029	R0	Finite element analysis of micro peel test for evaluating pulp fibre interfacial adhesion	ZUBAIR	Junaid	Finland
Material science	Prepregs	P030	R0	Influence of the prepreg morphology on the properties of OOA consolidated composites	LABASTIE	Karine	France
Material science	Bio-composites	P031	R0	The use of black tea waste as a thermo-oxidation stabilizer for polyethylene composites in rotational molding technology	ANIŠKO	Joanna	Poland
Material science	Bio-composites	P032	R0	Resources from sustainable land use for natural fibre composite injection moulding	BAUMANN	Jonas-Rumi	Germany
Material science	Bio-composites	P033	R0	Towards improving the fibre-matrix adhesion in oleaginous flax fibre polylactide (PLA) composites	BEHRENS	Alexander	Germany
Material science	Bio-composites	P034	R0	Polymeric biocomposites from cactus pear by-products: utilizing glochids and peel for sustainable materials	BOTTA	Luigi	Italy

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Material science	Bio-composites	P035	R0	Preparation of a bio-inspired halogen-free flame retardant containing sugarcane bagasse, phosphorus and nitrogen through a hydrothermal method and its application in epoxy resin	CHIANG	Chin-Lung	Taiwan
Material science	Bio-composites	P036	R0	Strain rate effect on the mechanical behaviour of woven fibres reinforced composites	CHILALI	Abderrazak	Algeria
Material science	Bio-composites	P037	R0	Bacterial cellulose from side-streams of Kombucha fermentation as sustainable bio-based reinforcement in thermoplastic-matrix composites	EDOARDO ZONTA	Edoardo	Italy
Material science	Bio-composites	P038	R0	On the biobased compatibilizer for improvement of thermal resistance of recycled polypropylene composites with lignocellulosic fibers from agricultural residues	Jānis	ZICĀNS	Latvia
Material science	Bio-composites	P039	R0	First-principles study on the mechanical properties of citric acid-modified cellulose composite polymeric materials	KOMYO	Takeru	Japan
Material science	Bio-composites	P040	R0	Common reed as novel Biosource composite production	LINDERBÄCK	Paula	Finland
Material science	Bio-composites	P041	R0	Multiscale Natural Fiber-Reinforced Thermoplastic Composites Towards Enhanced Mechanical Performance	NOBRE	Luís	Portugal
Material science	Bio-composites	P042	R0	Change in dynamic-mechanical properties of PLA film due to UV radiation	PECHOČIAKOVÁ	Miroslava	Czech Republic
Material science	Bio-composites	P043	R0	Influence of the number of plies on the Stiffness of Laminated Veneer Lumber	PEIGNON	Axel	France
Material science	Bio-composites	P044	R0	Saxophone and clarinet reeds, made from bio-based materials in a thermoplastic pultrusion process	WOLLERT	Lars	Germany
Material science	Nanocomposites	P045	R0	FUNCTIONALIZED CARBON NANOMATERIALS IN CEMENT, A MULTIVARIATE APPROACH	AMATA	Carlo	Italy
Material science	Nanocomposites	P046	R0	DEVELOPMENT AND STUDY OF LAMINATED COMPOSITE MATERIAL INTEGRATING CARBON NANOTUBES FOR LAUNCHER CRYOGENIC TANK APPLICATION	BOISSENIN	Adrien	France
Material science	Nanocomposites	P047	R0	DEVELOPMENT AND THERMOMECHANICAL CHARACTERIZATION OF THERMOPLASTIC NANOCOMPOSITES BASED ON THE IN-SITU ANIONIC POLYMERIZATION OF POLYAMIDE 6	BROGGIO	Lorenzo	Italy
Material science	Nanocomposites	P048	R0	Carbon nanofiber composites doped with different ZIF-8 nanoparticles for carbon dioxide capture	CHIANG	Yu-Chun	Taiwan
Material science	Nanocomposites	P049	R0	Effect of Carbon Black as a Conductive Filler on The Electrical, Thermal and Mechanical Property of Epoxy	KAGYUNG	Bibhuti Bikash	India
Material science	Nanocomposites	P050	R0	MXenes Embedded PLA Nanocomposites for Challenging Versatile Applications	TZATZADAKIS	Vasileios	Greece
Material science	Graphene, graphene-based composites	P051	R0	Characterizing the mechanical behaviors of graphene nanocomposites using molecular dynamics simulation	JIA-LIN TSAI	Jia-Lin	Taiwan

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Material science	Graphene, graphene-based composites	P052	R0	Surface functionalized pyrolytic carbon composites for wastewater treatment	LUCIJA	Pustahija	Austria
Material science	Hybrid composites	P053	R0	Tailored Hybrid Composite Preforms by Automated Fibre Placement of Powder Epoxy-Based Towpregs	ÇELIK	Murat	United Kingdom
Material science	Hybrid composites	P054	R0	Advanced Polyethylene Terephthalate (PET) Aerogels and their Composites from Plastic Waste for Load Bearing Thermal Insulation and Radiative Cooling Applications	GOH	Xue Yang	Singapore
Material science	Hybrid composites	P055	R0	INFLUENCE OF THE USE OF ADDITIVE PHASE CHANGE MATERIALS IN THE MATRIX OF FIBRE COMPOSITES ON THE ABLATIVE PROPERTIES	SZCZEPANIAK	Robert	Poland
Material science	Foams, cellular and lattice materials	P056	R0	Novel tubular auxetic metamaterial for energy absorption applications	H. ZAINELABDEEN	Ibrahim	United Arab Emirates
Material science	Foams, cellular and lattice materials	P057	R0	Advancements in MWCNT-Enhanced Porous Thermoplastic Elastomeric Composite Foam for Electromagnetic Radiation Suppression	NAYAK	Jasomati	India
Material science	Foams, cellular and lattice materials	P058	R0	The manufacturing of auxetic and conductive foam composites utilizing a novel kinetic model	OH	Yoon Min	Republic of Korea
Material science	Foams, cellular and lattice materials	P059	R0	Evaluation on ablation behavior of ZrO <sub>2</sub> nanoparticle-dispersed porous carbon composites	TANIGUCHI	Hiroya	Japan
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P060	R0	MODELLING THE INFLUENCE OF PART GEOMETRY, STACKING SEQUENCE, AND LOADING RATE ON THE ENERGY ABSORPTION OF OPEN NON-CRIMP FABRIC COMPOSITE CHANNELS	AJAYI	Valerie	Canada
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P061	R0	Numerical and Experimental Investigation of Mechanical Behavior of Carbon and Glass Fiber Reinforced Composites and Honeycomb Sandwich Panels and its application in MALE UAV Wing Skin	ALI	Fahad	Pakistan
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P062	R0	CHARACTERIZATION OF FATIGUE-DRIVEN DELAMINATION IN MODE II	ARRESE	Ainhoa	Spain
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P063	R0	THE INFLUENCE OF THE CRUSH PLUGS ON THE ENERGY ABSORPTION OF CARBON/EPOXY COMPOSITE CIRCULAR TUBES UNDER AXIAL CRUSHING	DEMIR	Serdar	Turkey
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P064	R0	Annealing Effects on Mechanical Performance and Failure Characteristics of CF/PEKK Aerospace Composites: A Thorough Exploration	ELMAS	Sinem	Turkey
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P065	R0	Finite element modelling of composite materials under impact loading, challenges and potential ways forward.	FOTOUHI	Sakineh	France
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P066	R0	Demonstration of preventing catastrophic compressive failure of carbon fibre-based composite components under 3-point bending through lay-up configuration control.	HILL	Ellis	United Kingdom
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P067	R0	Experimental study of adhesive layer effect on Mode-II interlaminar fracture toughness in unidirectional Glass Fiber/Epoxy composite and Mode-I fracture toughness at the 0/90-degree interface	KARIMI	Sasan	Turkey
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P068	R0	Translaminar fracture behavior of hybrid woven-ply PEEK thermoplastic laminates under isothermal and kerosene flame exposure	LIN	Lanhui	France

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Material and Structural Behavior - Simulation & Testing	Fracture and damage	P069	R0	Analysis of size effects on open-hole strength of composite laminates under combined tension-shear loading- Numerical study	MAHESH	P	India
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P070	R0	The effect of pattern width on the properties and behavior of interfacially engineered composites with designed failure	MARTON	Gergő Zsolt	Hungary
Material and Structural Behavior - Simulation & Testing	Fracture and damage	P071	R0	Process simulation chain combined with a structural simulation to capture the actual process-induced effects and 'as-built' characteristics	POLLAK	Maximilian	Austria
Material and Structural Behavior - Simulation & Testing	Multiscale modeling	P072	R0	On the transverse shear failure in unidirectional fibre-hybrid composite laminae using periodic microstructures	GIUSEPPE ROMANO	Giuseppe	United Kingdom
Material and Structural Behavior - Simulation & Testing	Multiscale modeling	P073	R0	Numerical Modelling and Experimental Comparison of a Tensile Test on Flax Roving	LARQUEMIN	Tiffany	France
Material and Structural Behavior - Simulation & Testing	Multiscale modeling	P074	R0	The research of the residual stress influence on unidirectional composite materials mechanical properties through micromechanical analysis.	LIU	Qingchuan	China
Material and Structural Behavior - Simulation & Testing	Multiscale modeling	P075	R0	DESIGN AND DAMAGE ASSESSMENT IN EARTHQUAKE RESISTANT COMPOSITE PIPE JOINTS	SHAHIDI	Kaveh	Turkey
Material and Structural Behavior - Simulation & Testing	Multiscale modeling	P076	R0	Mechanical characterization of hybrid reinforced polypropylene composites with talc fillers and cellulose nanofibers	YAMAMOTO	Tatsuto	Japan
Material and Structural Behavior - Simulation & Testing	Textile composites	P077	MEZZANINE	Improvement of Impact Energy of Cellulose Nanofiber-added CFRP by Water Absorption under High Temperature and Pressure Conditions	MITSUBAYASHI	Seiji	Japan
Material and Structural Behavior - Simulation & Testing	Textile composites	P078	MEZZANINE	Micromechanics-based multiscale damage model for 3D woven composites	TAO ZHENG	Tao	China
Material and Structural Behavior - Simulation & Testing	Textile composites	P079	MEZZANINE	Micro-meso scale numerical approach for yarn considering the damage behavior and its friction analysis	WANG	Yu	France
Material and Structural Behavior - Simulation & Testing	Textile composites	P080	MEZZANINE	Evaluation of 3D woven near-net-shaped composite I-sections: fabric design, manufacture, and mechanical properties	ZHANG	Weijie	China
Material and Structural Behavior - Simulation & Testing	Short & long fibre composites	P081	MEZZANINE	Effects of continuous glass fiber incorporation to recycled PA6 polymer: An interfacial approach	HERMASSI	Nahed	France
Material and Structural Behavior - Simulation & Testing	Short & long fibre composites	P082	MEZZANINE	Physics-informed neural network for efficient prediction of the mechanical behaviour of short fiber-reinforced composites	KWAK	Minjun	Republic of Korea
Material and Structural Behavior - Simulation & Testing	Short & long fibre composites	P083	MEZZANINE	Comprehensive Analysis of Fatigue and Creep Relationships in Thermoplastic Composites: Towards Innovative Structural Design Approaches.	LAMMING	François	France
Material and Structural Behavior - Simulation & Testing	Short & long fibre composites	P084	MEZZANINE	Determination of the material and geometrical contributions in the non-linear elastic behaviour of unidirectional CFRP laminates from experimental and numerical procedure	MAHÉ-FLAHAUT	Kylian	France
Material and Structural Behavior - Simulation & Testing	Short & long fibre composites	P085	MEZZANINE	Investigation of continuous fiber-reinforced triply periodic minimal surfaces (TPMS) for high-performance energy absorption applications	SZEDERKÉNYI	Bence	Hungary

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Material and Structural Behavior - Simulation & Testing	Fatigue	P086	MEZZANINE	Ply scale modelling of CFRP/GFRP laminates under quasi-static, fatigue loading and environmental conditions	CURBELIÉ	Julie	France
Material and Structural Behavior - Simulation & Testing	Fatigue	P087	MEZZANINE	Simulation of self-heating in unidirectional composite material under fatigue loading observed by infrared thermography	YAN	Yan	France
Material and Structural Behavior - Simulation & Testing	Dynamic	P088	MEZZANINE	High-velocity impact response of UHMWPE/PET foam sandwich structures: experimental testing and numerical modelling	BIN YANG	Bin	United Kingdom
Material and Structural Behavior - Simulation & Testing	Dynamic	P089	MEZZANINE	IMPACT PERFORMANCE OF SYMMETRIC AND ASYMMETRIC CFRP PLY-DROP LAMINATES- A COMPARATIVE STUDY	Pappa	Evanthia	Italy
Material and Structural Behavior - Simulation & Testing	Dynamic	P090	MEZZANINE	Water droplet impact simulations and prediction of liquid erosion damage for wind turbine blades	Tempelis	Antonios	Danemark
Material and Structural Behavior - Simulation & Testing	Durability, ageing, environmental effects	P091	MEZZANINE	Accelerated aging of carbon fiber-reinforced polymeric materials	DE FAZIO	Piero	Italy
Material and Structural Behavior - Simulation & Testing	Durability, ageing, environmental effects	P092	MEZZANINE	Sizing agents and their effect on the water absorption behaviour of GF/acrylic composites	DEVINE	Machar	United Kingdom
Material and Structural Behavior - Simulation & Testing	Durability, ageing, environmental effects	P093	MEZZANINE	Effect of alternating salt fog and dry conditions on the behavior of flax fiber reinforced epoxy composites	FIORE	Vincenzo	Italy
Material and Structural Behavior - Simulation & Testing	Durability, ageing, environmental effects	P094	MEZZANINE	Modeling Moisture-induced Deformation in CFRP Based on Two-Phase Diffusion Theory	KITAMOTO	Kazuya	Japan
Material and Structural Behavior - Simulation & Testing	Durability, ageing, environmental effects	P095	MEZZANINE	Numerical and Experimental Investigation of Diffusion of Carbondioxide in High-Density Polyethylene and Subsequent Rapid Gas Decompression	REKIK	Housseem Eddine	Saudi Arabia
Material and Structural Behavior - Simulation & Testing	Durability, ageing, environmental effects	P096	MEZZANINE	Mechanical Behavior and Damage Mechanisms of an Oxidized Carbon/Carbon Composite with Acoustic Emission and Digital Image Correlation	ZUBIAURRE	Théo	France
Material and Structural Behavior - Simulation & Testing	Lightning Strike, fire behavior and fire retardance/resistance of composites	P097	MEZZANINE	Lightning strike induced and impact induced delamination investigation using advanced Non-Destructive Testing methods	LECOINTRE	Lea	Japan
Material and Structural Behavior - Simulation & Testing	Lightning Strike, fire behavior and fire retardance/resistance of composites	P098	MEZZANINE	Mechanical behavior of carbon fibers reinforced PEEK laminates under fire conditions	VACANDARE	Julie	France
Material and Structural Behavior - Simulation & Testing	Electrical properties	P099	MEZZANINE	Advancing Understanding of Eddy Currents in Carbon Fiber Reinforced Composites using Through-Transmission Technique	SHARMA	Atul	United Kingdom
Material and Structural Behavior - Simulation & Testing	Electrical properties	P100	MEZZANINE	Analysis of electrical performance of carbon fiber composites for heat generation in deicing applications	AL-RAMAHI	Nawres	Sweden
Material and Structural Behavior - Simulation & Testing	Design of parts	P101	MEZZANINE	Challenges in characterizing and modeling 3D woven composites	KIM	Doyoung	Republic of Korea
Material and Structural Behavior - Simulation & Testing	Design of parts	P102	MEZZANINE	Development of a type-V cryogenic tank for a sub-orbital space vehicle	PINTO CARVALHO	Rodrigo	Portugal

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Material and Structural Behavior - Simulation & Testing	Sandwich structures	P103	MEZZANINE	Innovative welding-based approach for skin/core bonding in thermoplastic foam-based sandwich structures	ALLIYANKAL VIJAYAKUMAR	Amal	Italy
Material and Structural Behavior - Simulation & Testing	Sandwich structures	P104	MEZZANINE	Cork-STF sandwich structures under impact loading	FERNANDES	Fábio	Portugal
Material and Structural Behavior - Simulation & Testing	Sandwich structures	P105	MEZZANINE	Initial Tests of CCLT – A timber sandwich structure with COMBOO core	WITZMANN	Jean-Marc	Germany
Material and Structural Behavior - Simulation & Testing	Hybrid structures	P106	MEZZANINE	Development of a modular and flexible construction system for a self-supporting and modular bridge formwork made of fibre-reinforced plastics	Yang	Zhikun	Germany
Material and Structural Behavior - Simulation & Testing	Hybrid structures	P107	MEZZANINE	A NOVEL MEASUREMENT METHOD OF TRACTION-SEPARATION RELATION FOR BI-MATERIAL DCB JOINTS	ZHNAG	Shijie	China
Material and Structural Behavior - Simulation & Testing	Joining & joints	P108	MEZZANINE	Analytical model for the mechanical behavior of CFRP double-stepped adhesively bonded lap joint	MOHAPATRA	Rashmiranjan	India
Material and Structural Behavior - Simulation & Testing	Joining & joints	P109	MEZZANINE	Optimization of anodizing process parameters to improve adhesion between fiber reinforced polymers and 3D-printed metal substrates with macroscopic pins	RICCARDO MIRANDA	Riccardo	Italy
Material and Structural Behavior - Simulation & Testing	Joining & joints	P110	MEZZANINE	Investigating the Mode-I Failure behavior of Thick Adhesive Joints using a coupled computational/experimental approach	SHARMA	Akash	Belgium
Material and Structural Behavior - Simulation & Testing	Joining & joints	P111	MEZZANINE	Development of design guidelines for adhesive bond lines of segmented wind power rotor blades	WUNDERLE	Fabian	Germany
Material and Structural Behavior - Simulation & Testing	Advanced computational methods	P112	MEZZANINE	A DUAL-SCALE MODEL FOR TENSILE PROPERTIES ANALYSIS OF CFRTP-SMC BASED ON MICROPOLAR PERIDYNAMIC METHOD	WANG	Zhiyu	Japan
Material and Structural Behavior - Simulation & Testing	Maintainance & repair	P113	MEZZANINE	Experimental Studies on Buckling and Post-buckling Response of Adhesively Bonded CFRP Scarf Repaired Composite Panels under In-plane Negative Shear Loading	SONWANI	Hetram	India
Material and Structural Behavior - Simulation & Testing	Structural health monitoring and control	P114	MEZZANINE	Promises and challenges of using electrical resistance change to detect damage in carbon fibre composite laminates	ACOSTA CORREA	Jose David	United Kingdom
Experimental techniques	Full-field methods	P115	MEZZANINE	Accurate Assessment of the Tensile Strength of High-Performance Carbon Fibre Unidirectional Composites for Hydrogen Storage Applications	AKLEH	Wajih	France
Experimental techniques	Full-field methods	P116	MEZZANINE	Influence of friction on out-of-plane properties in the curved beam angle test ASTM-D6415 for hydrofoil marine application.	LE GUENNEC	Cyran	France
Experimental techniques	Full-field methods	P117	MEZZANINE	On the interaction effect of rigid line inclusion within zones of curved inclusion: Experimental and numerical insights	PATIL	Swapnil	India
Experimental techniques	Full-field methods	P118	MEZZANINE	Characterization of a Ceramic Matrix Composite coated with an environmental barrier under multiphysical loadings	RONTEIX	Louane	France
Experimental techniques	X-ray computed tomography	P119	MEZZANINE	A METHOD TO DETECT PROGRESSIVE MATRIX CRACKING USING X-RAY COMPUTED MICROTOMOGRAPHY ( $\mu$ CT) UNDER STATIC LOADING FOR CRYOGENIC TEMPERATURES	SALGADO	Mayerlin	Spain

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Experimental techniques	Thermography	P120	MEZZANINE	Contactless temperature monitoring and boundary conditions determination of the back surface of a woven-ply laminate under fire exposure	DAVIN	Tanguy	France
Experimental techniques	Thermography	P121	MEZZANINE	An efficient testing method to determine the anisotropic thermal conductivity of long-fiber reinforced composites	KARSTEN	Julian M.	Germany
Experimental techniques	Acoustic Emission & ultrasonic method	P122	MEZZANINE	An experimental study on mode II delamination in a unidirectional thermoplastic composite using acoustic emission	KARAMI	Javane	Belgium
Experimental techniques	Acoustic Emission & ultrasonic method	P123	MEZZANINE	Detection and quantification of porosity clusters at specific depths of composite material using ultrasonic methods	SIMON	A	France
Experimental techniques	Optical fiber sensors	P124	MEZZANINE	Comparison of the strain response of structures/components before and after accelerated ageing of acrylate or polyimide FBG coated sensors.	GRANDIZIO	Francesco	Italy
Experimental techniques	Tests in severe conditions	P125	MEZZANINE	High temperature in-situ heat treatments of refractory materials by means of synchrotron refraction	SERRANO-MUNOZ	Itziar	Germany
Experimental techniques	Novel test methods	P126	MEZZANINE	Failure of Bonded Composite Joints at Cryogenic Temperatures Loaded in a Modified Arcan Fixture	BREARLEY	David	United Kingdom
Manufacturing	Process modeling and simulation	P127	MEZZANINE	Optimizing Autoclave Curing: A Finite Element Approach to Reduce Porosity in Composite Laminates	DEI SOMMI	Andrea	Italy
Manufacturing	Process modeling and simulation	P128	MEZZANINE	Fast approximation of fiber reinforced injection molding process using eikonal equations and machine learning	GREIF	Julian	Germany
Manufacturing	Process modeling and simulation	P129	MEZZANINE	Numerical Investigation of Electrostatic Spray Deposition Process for Powder Towpregging Line	HASRIN	Hanisa	United Kingdom
Manufacturing	Process modeling and simulation	P130	MEZZANINE	Automatic Detection of Geometric Defects in Macroscopic FE Draping Simulation Results	KELLER	Sophia	Austria
Manufacturing	Process modeling and simulation	P131	MEZZANINE	Exploring the pressure-dependent nonlinear bending behavior of yarns in textiles: the physical basis for the virtual fiber modeling method in fabric compression processes	LI	Yiding	China
Manufacturing	Process modeling and simulation	P132	MEZZANINE	Prediction of Process induced deformations in curved CFRP-metal hybrids	PAULITSCH	Michael	Austria
Manufacturing	Process modeling and simulation	P133	MEZZANINE	Tow-drop areas influence on composite laminates in automated fiber placement	THÉBAULT	Félix	France
Manufacturing	Process modeling and simulation	P134	MEZZANINE	Crystallisation Kinetics of PEEK Composites using Fractional Differential Equations	VEYRAT CRUZ-GUZMAN	Maria	United Kingdom
Manufacturing	Experimental methods for process characterisation	P135	MEZZANINE	INTERFACE FORMATION MECHANISMS IN FIBRE REINFORCED THERMOPLASTIC TAPES	ALAWAR	Rami	France
Manufacturing	Experimental methods for process characterisation	P136	MEZZANINE	Manufacture and Finite Element Modelling of Thermally Assisted Pierced holes for Acoustic Liners	Dashatan	Saeid	United Kingdom



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Manufacturing	Experimental methods for process characterisation	P137	MEZZANINE	Pneumatic Splicing for Sustainable Composite Manufacture: Influence of Spliced Tow Connections on the Mechanical Performance of Composite Structures.	DAVIDSON	James R	United Kingdom
Manufacturing	Experimental methods for process characterisation	P138	MEZZANINE	Process evaluation of a double belt press with innovative elastomer coated rollers and inductive heating for energy efficient continuous manufacturing of thermoplastic composites	WIGGER	Philipp	Germany
Manufacturing	Automated placement technologies	P139	MEZZANINE	Width deformation of thermoplastic prepreg tapes during Automated Fiber Placement	AGARWAL	Sovit	Germany
Manufacturing	Automated placement technologies	P140	MEZZANINE	Correction Factor Approach for Enhanced Intimate Contact Prediction in Laser-Assisted Fiber Placement Process	BARZEGAR	Ali	Turkey
Manufacturing	Automated placement technologies	P141	MEZZANINE	Study on the effect of reworking Gap/Overlap defects on the quality of AFP-produced laminates	MCARTHUR	Stig	United Kingdom
Manufacturing	Liquid composite molding	P142	MEZZANINE	Assessing the influence of flax fibers humidity on the properties and processing of composites with infusion at controlled capillary number	BREARD	Joel	France
Manufacturing	Liquid composite molding	P143	MEZZANINE	Optimization of core groove geometry for the manufacture and operation of composite sandwich structures in wind turbine blades	LARIONOV	Maksim	Danemark
Manufacturing	Liquid composite molding	P144	MEZZANINE	Fabric compaction and fibre volume fraction evaluation for vacuum-assisted resin infusion modelling	LARIONOVA	Anastasiia	Danemark
Manufacturing	Forming & stamping	P145	MEZZANINE	Evaluation on Joining Strength of Rivet Fastening Using Slide Heat Servo Press of Pultruded CF/PEEK Round Rods with Varying Fiber Orientation	EGUCHI	Takeshi	Japan
Manufacturing	Forming & stamping	P146	MEZZANINE	A Curved-crease Origami Approach to Forming Composite Structures	NAVARATNARAJAH	Sutharsanan	United Kingdom
Manufacturing	Machining	P147	MEZZANINE	Experimental analysis and the comparison of microwave-drilled and laser-drilled holes in kenaf/polypropylene composites		Rampal	India
Manufacturing	Additive manufacturing	P148	MEZZANINE	In-line monitoring of the Fused Filament Fabrication additive manufacturing process for fibre-reinforced polymer matrix composites.	FORSTER	Rosanna	United Kingdom
Manufacturing	Additive manufacturing	P149	MEZZANINE	Homogenization of the Anisotropic Thermal Conductivity of Mesostructures in Material Extrusion	HOF	Lukas	Germany
Manufacturing	Additive manufacturing	P150	MEZZANINE	Kirigami-inspired composite metamaterials with quasi-zero stiffness characteristics for vibration isolation	HONG	Hyunsoo	Republic of Korea
Manufacturing	Additive manufacturing	P151	MEZZANINE	Weld strength evaluation of AM insert molding	INOMOTO	Makoto	Japan
Manufacturing	Additive manufacturing	P152	MEZZANINE	Influence of Partial Curing on Residual Stresses and Process Time in Additive Manufacturing of Thick Thermosetting Composites	TADDEI	Francesco	Switzerland
Manufacturing	Manufacturing of short & long fiber composites	P153	MEZZANINE	Analysis of the compressive behavior in fiber direction of 3D printed continuous fiber reinforced thermoplastic using pure compression and four-point bending tests	CHIMIENTI	Matteo	France

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Manufacturing	Manufacturing of short & long fiber composites	P154	MEZZANINE	DEVELOPMENT OF LONG FIBRE THERMOPLASTIC PELLETS FOR AEROSPACE NON-STRUCTURAL APPLICATIONS	GALVEZ-HERNANDEZ	Pedro	Spain
Manufacturing	Manufacturing of short & long fiber composites	P155	MEZZANINE	Tailored Discontinuous Fibre (TDF) Technology Assisted with Ultrasonic Waves	SHIVDARSHAN SHERUGAR	Shivdarshan	United Kingdom
Manufacturing	Manufacturing of short & long fiber composites	P156	MEZZANINE	Effect of Environmental Conditions on Absorption and Degradation Behavior of Sisal/HDPE Composites Fabricated Using Microwave-Assisted Molding	TEJAS PRAMOD NAIK	Tejas	United Kingdom
Manufacturing	Welding and bonding	P157	MEZZANINE	RESISTANCE WELDING OF THERMOPLASTIC COMPOSITE AUTOMOTIVE BATTERY TRAY	PINTOS	Soraya	Spain
Manufacturing	Welding and bonding	P158	MEZZANINE	Evaluation on Hybrid Joining Process for CFRTP Using Ultrasonic Welding and CF/PEEK Rivet Fastening	TANABE	Daiki	Japan
Manufacturing	AI-based methods	P159	MEZZANINE	Early Defect Detection in Thermo-Stamping Process Using Set Encoding for Nonlinear Dynamics Identification	EL AARABI	Mouad	France
Multifunctional and smart composites	Energy storage and harvesting	P160	MEZZANINE	Horizontally Aligned MWCNT/PEDOT:SS Organic Thermoelectric Composite Films	KIM	Wonvin	Republic of Korea
Multifunctional and smart composites	Energy storage and harvesting	P161	MEZZANINE	Mr.	KÜHN	Johannes	Germany
Multifunctional and smart composites	Energy storage and harvesting	P162	MEZZANINE	Geopolymer Concrete Thermochemical Energy Storage composite for Buildings Applications	SANFILIPPO	Carmelo	Italy
Multifunctional and smart composites	Energy storage and harvesting	P163	MEZZANINE	Development of biowaste-derived TENG device for sustainable triboelectric energy harvesting and its practical applications	WU	Chang-Mou	Taiwan
Multifunctional and smart composites	Sensing and actuation	P164	MEZZANINE	3D printable piezoresistive tactile sensing technologies for soft robotics	BASCUCCI	Christopher	Switzerland
Multifunctional and smart composites	Sensing and actuation	P165	MEZZANINE	Lead-free electrospun piezoceramic fiber-based composites for self-powered tactile sensing application	ICHANGI	Arun	Switzerland
Multifunctional and smart composites	Sensing and actuation	P166	MEZZANINE	Designing smart textiles for the detection of loneliness in older individuals	MEXIA	Nikitia	United Kingdom
Multifunctional and smart composites	Sensing and actuation	P167	MEZZANINE	Smart waterproofing textile-reinforced structure for passable roofs	SILVA	Augusta	France
Multifunctional and smart composites	Smart structures	P168	MEZZANINE	Structural Health Monitoring (SHM) of Polymer-Matrix Composites (PMC) with the insertion of piezoelectric transducers and Data Fusion approach	DOLBACHIAN	Loan	France
Multifunctional and smart composites	Smart structures	P169	MEZZANINE	Synergistic Effects of Surface Treatments and Graphene Nano-platelets on Adhesion and Mechanical Performance of NiTi-based Fiber Metal Laminates	HUSSAIN	Muzafar	United Arab Emirates
Multifunctional and smart composites	Smart structures	P170	MEZZANINE	GNP Films Embedded Glass Fiber Reinforced Composites for Enhanced Impact Performance	KHALID	Muhammad Yasir	United Arab Emirates

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Life cycle performance	Sustainability - Resource efficient technologies and supply chains	P171	MEZZANINE	MODELING AND EXPERIMENTAL ANALYSIS OF MOISTURE DIFFUSION BEHAVIOR IN BIO-BASED BALSA WOOD CORE COMPOSITE SANDWICH	CASARI	Pascal	France
Life cycle performance	Sustainability - Resource efficient technologies and supply chains	P172	MEZZANINE	COMPARATIVE ANALYSIS OF ENVIRONMENTAL AND COST IMPACTS OF RECYCLING AND NON-RECYCLING CFRP APPLICATION ON FLOATING OFFSHORE WIND TURBINE BLADES: AN LCA AND LCC APPROACH	TAKUMI	Morishima	Japan
Life cycle performance	Recycling	P173	MEZZANINE	Studying surface roughness techniques to enhance the bond performance of recycled FRP needles in concrete.	ABDO	Meiran	United Kingdom
Life cycle performance	Recycling	P174	MEZZANINE	Influence of Nanosilica Particles on Mechanical Properties and Recycling Efficiency of Epoxy Modified Composites	Alapati	Arun Kumar	United Kingdom
Life cycle performance	Recycling	P175	MEZZANINE	Study of the recyclability of carbon fibers of composite materials for use as textile coatings	CAMPO GOMEZ	Monica	Spain
Life cycle performance	Recycling	P176	MEZZANINE	Filaments for additive manufacturing reinforced with carbon fibers from waste stream	CHAKRABORTY	Souvik	Germany
Life cycle performance	Recycling	P177	MEZZANINE	Diverted from Landfill: Manufacture and characterisation of sustainable composites using waste plastics and waste glass fibre	O'ROURKE	Kit	United Kingdom
Life cycle performance	Recycling	P178	MEZZANINE	Demonstration and testing of a process chain for the realignment of discontinuous random-oriented recycled carbon fibers into a unidirectional tape	TEICHMANN	Felix	Germany
Life cycle performance	Recycling	P179	MEZZANINE	RECYCLING OF END-OF-LIFE WIND TURBINE BLADES INTO THERMOPLASTIC POLYMER COMPOSITES: CHEMICAL CHARACTERIZATION AND EVALUATION OF MECHANICAL PROPERTIES	TUMKUR KARNICK	Shashank	The Netherlands
Life cycle performance	Environmental impact	P180	MEZZANINE	Ecodesign of Innovative Hydrogen Storage for Aviation made in Composite Materials	PETTERSEN HELÅSEN	Andrea	Norway
Life cycle performance	Environmental impact	P181	MEZZANINE	DYNAMIC IMPACT PROPERTIES OF SANDWICH CFRTP UNDER HYDROTHERMAL ENVIRONMENT	FAN	Zhang	Japan
Life cycle performance	Environmental impact	P182	MEZZANINE	LIFE CYCLE ASSESSMENT AND LIFE CYCLE COST ANALYSIS OF THE RECYCLING OF PROCESS OF AEROSPACE COMPOSITE MATERIALS	KOUTRAKOU	Alexia	France
Special Sessions	Additive Fabrication of composite materials	P183	MEZZANINE	Printing parameters and mechanical characteristics of thermoplastic polymers for 3D printed hybrid structures	BULDERBERGA	Olga	France
Special Sessions	Additive Fabrication of composite materials	P184	MEZZANINE	Bioinspired 4D printed shape-changing metacomposites for programmable structural morphing	LE DUIGOU	Antoine	France
Special Sessions	Composites for Hydrogen Storage	P185	MEZZANINE	Modeling And Numerical Simulation Of The Rotomolding Process For Pressurized Hydrogen Storage Tank Liners	BARAKAT	Gianni	France
Special Sessions	Composites for Hydrogen Storage	P186	MEZZANINE	Investigation into testing approaches for material characterisation of filament-wound components for hydrogen storage	FORBES-THOMAS	Jordan	United Kingdom
Special Sessions	Composites for Hydrogen Storage	P187	MEZZANINE	DEVELOPMENT OF MODIFIED POLYAMIDE FOR THE IMPROVEMENT OF BARRIER PROPERTIES AGAINST HYDROGEN IN THE AUTOMOTIVE SECTOR	GUILLERMO	Ulldemolins	Spain

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Special Sessions	Composites for Hydrogen Storage	P188	MEZZANINE	Sensitivity Analysis of Material and Manufacturing Uncertainties of Filament-Wound Composite Pressure Vessels	JACOBSEN	Linus	Germany
Special Sessions	Composites for Hydrogen Storage	P189	MEZZANINE	Cork-based Composite Materials Suitable to Protect Type I Hydrogen Tanks	SILVA	Afonso	Portugal
Special Sessions	Composites for Hydrogen Storage	P190	MEZZANINE	Thermal fatigue effects on the hydrogen permeation characterisation of thin-ply carbon fibre composites for liquid hydrogen tanks	SONG	Junyao	United Kingdom
Special Sessions	Computed tomography	P191	MEZZANINE	Leveraging Computed Tomography & information technology to enable wider adoption of CFRP Composites through efficient production and safe application	BOSE	Sudip	France
Special Sessions	Computed tomography	P192	MEZZANINE	Quantifying Intra-tow Fiber Volume Fraction in GFRP: A comparison of 3D non-destructive X-ray computed tomography and destructive optical microscopy	JESPER JOHN LISEGAARD	Jesper	Danemark
Special Sessions	Delamination prediction and mitigation in laminated structures	P193	MEZZANINE	Analysis of Delamination Propagation in Quasi-isotropic Laminated Composites for different loadings	BEGIN	Valentin	France
Special Sessions	Exploring the frontiers: from novel observations to paradigm shifting applications of composites	P194	MEZZANINE	Composite Pressure Vessels are batteries for the future Energy. The path we need to follow to reduce carbon footprint.	VIEIRA	Pedro	France
Special Sessions	Image-based analysis of composites: first steps towards benchmarking	P195	MEZZANINE	Quantitative micro-structural characterisation of hybrid polymer composites with convolutional neural networks	JI DONG	Ji	United Kingdom
Special Sessions	Image-based analysis of composites: first steps towards benchmarking	P196	MEZZANINE	Carbon fiber PAEK prepreg micrograph analysis using Weka deep learning methodology.	LE REUN	Adrien	France
Special Sessions	Integrated testing and modelling of composite structures – towards virtual testing and certification by analysis	P197	MEZZANINE	A novel method for forming realistic pre-preg wrinkles in an AFP representative setup and their characterisation	ARABUL	Ege	United Kingdom
Special Sessions	Integrated testing and modelling of composite structures – towards virtual testing and certification by analysis	P198	MEZZANINE	Optimising Test Sequences for Robust Material Identification in Composite Laminates	GUERDER	Marie	France
Special Sessions	Manufacturing defects in composite materials and structures	P199	MEZZANINE	Numerical and Experimental analysis of the effect of Wrinkles on the residual strength of curved laminates	CASTANIÉ	Bruno	France
Special Sessions	Manufacturing defects in composite materials and structures	P200	MEZZANINE	A Study on the Mechanical Properties Change of Composite Blade for Wind Turbine according to Damage	SUNG JIN	Ahn	Republic of Korea
Special Sessions	Manufacturing defects in composite materials and structures	P201	MEZZANINE	IMPACT OF STRAND LENGTH AND THICKNESS ON MOLD EDGE AND WELD LINES IN COMPRESSION MOLDING OF CFRT-P-SMC	ZHAO	Zihao	Japan
Special Sessions	Modelling material flow and other mechanisms in composites manufacture	P202	MEZZANINE	A spacing criterion for perforated release films in vacuum-assisted resin infusion processes	LABORDERIE	Lucie	Danemark
Special Sessions	Multifunctional Composites for Energy Applications	P203	MEZZANINE	Thermoplastic Structural Electrolytes	CHIMONIDES	Elia	United Kingdom
Special Sessions	Online process monitoring and controlling through digital twin approaches	P204	MEZZANINE	Digital shadow dedicated to resin infusion filling process of composite parts	LE BOT	Philippe	France

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Special Sessions	Permeability of fibrous reinforcements for resin flow	P205	MEZZANINE	Numerical permeability prediction of a fibrous reinforcement based on real images and comparison with experimental values.	BOUBAKER	Mouadh	France
Special Sessions	Reuse, Remanufacturing and Recycling: Boosting the Circularity of Fiber-Reinforced Composite Materials	P206	MEZZANINE	Interlaminar properties of hybrid stacking recycled carbon fiber-reinforced composites	SÁNTHA	Peter	Hungary
Special Sessions	Reuse, Remanufacturing and Recycling: Boosting the Circularity of Fiber-Reinforced Composite Materials	P207	MEZZANINE	Inducing Damage by Laser Shock Plasma: Application for Dismantling Laminated Composites for Reuse	SMA	Ines	France
Special Sessions	Reuse, Remanufacturing and Recycling: Boosting the Circularity of Fiber-Reinforced Composite Materials	P208	MEZZANINE	Research on Mechanical Properties and Internal Structures of Discontinuous Recycled CF/PA6 Composites with Various Molding Conditions	WANG	Qiujun	Japan
Special Sessions	Short Fibre Reinforced Polymers	P209	MEZZANINE	Investigation of Short Fiber Reinforced Polymers fatigue behaviour using specimens of highly coherent fibres orientation	CANEGRATI	Andrea	France
Special Sessions	Short Fibre Reinforced Polymers	P210	MEZZANINE	Investigation of the influence of processing parameters on the morphology of short fiber reinforced thermoplastics by means of ultrafast scanning calorimetry	KAYLANI	Dario	Austria
Special Sessions	Short Fibre Reinforced Polymers	P211	MEZZANINE	Development of sintered all-UHMWPE composites for joint implant sockets	NEMES-KÁROLY	István	Hungary
Special Sessions	Testing at Cryogenic Temperatures	P212	MEZZANINE	Cooling behavior of fiber reinforced composite samples in a newly designed cryostat for the evaluation of temperature-dependent material properties	GABELE	Leonard	Germany
Special Sessions	Testing at Cryogenic Temperatures	P213	MEZZANINE	Investigation Of The Mechanical Properties Of Carbon And Glass Fibres Exposed To Cryogenic Temperatures And Cryogenic Cycling	KELLY	Lewis	United Kingdom
Special Sessions	Transition toward high performance plant fibre composite: sourcing, process, applications and bottlenecks	P214	MEZZANINE	Structural actuation of 4D printed hygromorph biocomposites	LEDRU	Jean-Baptiste	France
Special Sessions	Understanding and improving longitudinal compressive strength	P215	MEZZANINE	FAILURE MECHANISMS IN 3D PRINTED COMPOSITES UNDER AXIAL COMPRESSION IMAGED IN REALTIME BY COMPUTED TOMOGRAPHY	KOHLI	Anirudh	United Kingdom
Special Sessions	Vitrimer matrix composites	P216	MEZZANINE	Enhancing vitrimer composite reparability via hybrid carbon/flax reinforcement	BOURDON	Killian	Luxemburg
Special Sessions	Vitrimer matrix composites	P217	MEZZANINE	Vitrimer matrix composites for space application	DE CALBIAC	Joséphine	France
Special Sessions	Vitrimer matrix composites	P218	MEZZANINE	REPAIRABILITY OF FIBER-REINFORCED POLYMER COMPOSITE USING BIO-BASED VITRIMERS	RAVINDRAN	Bharath	Austria
Special Sessions	Vitrimer matrix composites	P219	MEZZANINE	Kinetic analysis of self-healing in vitrimers based on the recovery of mode I fracture toughness	SALEH	A. M.	Spain