

**BCCM 5 - 5th BRAZILIAN CONFERENCE ON COMPOSITE MATERIALS**  
São Carlos School of Engineering - University of São Paulo

**2021**

Time BRT(*)	January 18			January 19		January 20		January 21		January 22			
8:30 / 8:50	INFORMATION / REGISTRATION			Opening (8:30 - 8:50) - Auditorium Keynote 1 (8:50 - 9:40) Marino Quaresimin		Keynote 3 (8:50 - 9:40) - Dirk Vandepitte Auditorium		Keynote 4 (8:50 - 9:40) - Sofia Teixeira Auditorium		Keynote 6 (8:50 - 9:40) - Reinaldo Ramos Auditorium			
09:20	Short Course 1	Short Course 2	Short Course 3	Code	Speaker	Code	Speaker	Code	Speaker	Code	Speaker		
09:40				Code	Speaker	Code	Speaker	Code	Speaker	Code	Speaker		
10:00				Code	Speaker	Code	Speaker	Code	Speaker	Code	Speaker		
10:20	Break			Break		Break		Break		Break			
11:20	Short Course 1	Short Course 2	Short Course 3	Code	Speaker	Code	Speaker	Code	Speaker	Code	Speaker		
11:40				Code	Speaker	Code	Speaker	Code	Speaker	Code	Speaker		
12:00				Code	Speaker	Code	Speaker	Code	Speaker	Code	Speaker		
12:20	Invited Presentation 1 - Maurício Donadon Auditorium			Invited Presentation 2 - Daniel Melo Auditorium		Invited Presentation 3 - Ricardo de Medeiros Auditorium		Close BCCM 5					
12:40	Break (13:00 - 14:40)			Break (13:00 - 14:30)		Break (13:00 - 14:40)		Break (13:00 - 14:40)					
13:00	Short Course 4	Short Course 5	-	Keynote 2 (14:30 - 15:20) - Jandro Abot Auditorium		PLENARY MEETING Auditorium		Invited Presentation 4 - Edson Botelho Auditorium					
14:40				Code	Speaker			Code	Speaker	Code	Speaker		
15:00				Code	Speaker			Code	Speaker	Code	Speaker		
15:20				Code	Speaker			Code	Speaker	Code	Speaker		
15:40	Break			Break		Close		Break					
16:00	Short Course 4	Short Course 5	-	Code	Speaker			Keynote 5 (17:20 - 18:10) - Amir Asadi Auditorium					
16:20				Code	Speaker								
16:40				Code	Speaker								
17:20	Close			Close				Close					
17:40													
18:00													
18:20													

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ROOM 1										
Time BRT(*)	January 19		January 20		January 21		January 22			
8:30 / 8:50	Opening (8:30 - 8:50) Keynote 1 (8:50 - 9:40) Marino Quaresimin		Keynote 3 (8:50 - 9:40) - Dirk Vandepitte		Keynote 4 (8:50 - 9:40) - Sofia Teixeira		Keynote 6 (8:50 - 9:40) - Reinaldo Ramos			
09:20	118	Bruna de Souza Constantino	27	Dimas Alan Strauss Rambo	4	Elizabeth C. L. Cardoso	347	Régis Pamponet da Fonseca		
10:00	209	Vitor de Moura Lucindo	199	Sande dos Santos Batista	321	Andrey Pereira Acosta	369	Jorge Luiz S. da Costa Neto		
10:20	-	-	60	Allan Kley	-	-	250	Maísa Maciel		
10:40	Break		Break		Break		Break			
11:20	357	Camila Vargas Cardoso	338	Mateus da Silva Batista	317	Vinícius Demétrio da Silva	333	Ivan Douglas		
11:40	45	Paulo Victor Matiello Contini	143	Sayra O. Silva	332	E. Fonseca	100	Saulo Ferreira		
12:00	-	-	59	Marina Keiko Ishihara	18	Bilal Ghafoor	113	Saulo Ferreira		
12:20	Invited Presentation 1 - Maurício Donadon		Invited Presentation 2 - Daniel Melo		Invited Presentation 3 - Ricardo de Medeiros		Close BCCM 5			
12:40										
13:00	Break (13:00 - 14:30)		Break (13:00 - 14:40)		Break (13:00 - 14:40)					
14:40	Keynote 2 (14:30 - 15:20) - Jandro Abot		Plenary Meeting		Invited Presentation 4 - Edson Botelho					
15:00										
15:20	265	Thaiane Oliveira Marcelino					182	Marcela Ap. Fernanda Ferreira		
15:40	348	Gislane N. de Andrade					367	Thiago Teixeira		
16:00	336	Lais Alves					13	Giulia Simão Barreto de Sousa		
16:20	192	Rodrigo Andraus Bispo			360	Lais Kohan				
16:40	Break		Close		Break					
17:20	46	Vitor da S. Lacerda								
17:40	56	Rafael P. Evangelista					Keynote 5 (17:20 - 18:10) - Amir Asadi			
18:00	259	André Flores								
18:20	Close				Close					

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ROOM 2										
Time BRT(*)	January 19		January 20		January 21		January 22			
8:30 / 8:50	Opening (8:30 - 8:50) Keynote 1 (8:50 - 9:40) Marino Quaresimin		Keynote 3 (8:50 - 9:40) - Dirk Vandepitte		Keynote 4 (8:50 - 9:40) - Sofia Teixeira		Keynote 6 (8:50 - 9:40) - Reinaldo Ramos			
09:20	316	Marcio Moreira Arouche	291	R. Kalyan Kumar	176	Igor Paganotto Zago	363	Enio Henrique Pires da Silva		
10:00	139	Fernando Madureira	229	Gean Henrique M. de Oliveira	181	José Jerônimo Rabelo Faria	292	José Everardo Baldo Junior		
10:20	312	Elvis C. Monteiro	19	Rita de Cássia M. Sales	-	-	131	Anderson G. da Silva Santos		
10:40	Break		Break		Break		Close BCCM 5			
11:20	135	Fernando Luis Schiavon	353	Lucas Moura Montenegro Reis	137	León, J. S.				
11:40	364	Henrique F. Medeiros de Queiroz	41	Isadora Ruas Henriques	25	Juliana Ferreira Barbieri				
12:00	262	D. E. T. Marques	342	Diogo Lieres da Silva	163	Sandro Martini				
12:20	Invited Presentation 1 - Maurício Donadon		Invited Presentation 2 - Daniel Melo		Invited Presentation 3 - Ricardo de Medeiros					
12:40										
13:00	Break (13:00 - 14:30)		Break (13:00 - 14:40)		Break (13:00 - 14:40)					
14:40	Keynote 2 (14:30 - 15:20) - Jandro Abot		Plenary Meeting		Invited Presentation 4 - Edson Botelho					
15:00										
15:20	3	Lucas Ferreira Lima dos Santos					284	Kleison Antonio Possenti		
15:40	149	Lucas Braga Lopes Gato					358	Daniel Marcus Giglioli de Oliveira		
16:00	108	Thaís da Costa Dias					55	Matheus Colovati Saccardo		
16:20	324	Adilson B. de Arruda Filho			241	Santino Loruan Silvestre de Melo				
16:40	Break		Close		Break					
17:20	258	Leonardo G. Scherer					Keynote 5 (17:20 - 18:10) - Amir Asadi			
17:40	-	-								
18:00	-	-								
18:20	Close				Close					

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ROOM 3									
Time BRT(*)	January 19		January 20		January 21		January 22		
8:30 / 8:50	Opening (8:30 - 8:50) Keynote 1 (8:50 - 9:40) Marino Quaresimin		Keynote 3 (8:50 - 9:40) - Dirk Vandepitte		Keynote 4 (8:50 - 9:40) - Sofia Teixeira		Keynote 6 (8:50 - 9:40) - Reinaldo Ramos		
09:20	239	Cristiano João Brizzi Ubessi	64	Gregório F. O. Ferreira	79	Cassio Wallner	1	Shamsher Bahadur Singh	
10:00	220	Rafael Vargas	223	Tulio Paim Horta	155	Igor Simon	121	Abel Ricardo C. Montestruque	
10:20	214	Marcelo L. Ribeiro	287	Michele Bacciocchi	282	Pedro Bühner Santana	318	Kaique Moreira M. Magalhães	
10:40	Break		Break		Break		Close BCCM 5		
11:20	293	Oscar L. Cruz-González	253	Eduardo A. Wink de Menezes	376	Nicholas Hoffmann			
11:40	80	Ernesto Iglesias-Rodríguez	361	Pedro Fellipe Martins Pires	129	Netto, J.V.B.			
12:00	197	Bruno Guilherme Christoff	323	Gefferson Cleuber Silva	94	Ricardo de Medeiros			
12:20	Invited Presentation 1 - Maurício Donadon		Invited Presentation 2 - Daniel Melo		Invited Presentation 3 - Ricardo de Medeiros				
12:40									
13:00	Break (13:00 - 14:30)		Break (13:00 - 14:40)		Break (13:00 - 14:40)				
14:40	Keynote 2 (14:30 - 15:20) - Jandro Abot		Plenary Meeting		Invited Presentation 4 - Edson Botelho				
15:00									
15:20	337	Ana Elena Pérez Soto					58	Diego Magela Lemos	
15:40	127	Murilo Sartorato					132	Leonel Echer	
16:00	78	Filipe José Viana Ribeiro					53	Ewerton Grotti	
16:20	98	Matheus Madrid Moreira			218	Lucas Ap. Fernandes da Silva			
16:40	Break		Close		Break				
17:20	169	Matheus Urzedo Quirino					Keynote 5 (17:20 - 18:10) - Amir Asadi		
17:40	251	Lívia Mendonça Nogueira							
18:00	222	Jailto Antonio Prado da Silva							
18:20	Close				Close				

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ROOM 4								
Time BRT(*)	January 19		January 20		January 21		January 22	
8:30 / 8:50	Opening (8:30 - 8:50) Keynote 1 (8:50 - 9:40) Marino Quaresimin		Keynote 3 (8:50 - 9:40) - Dirk Vandepitte		Keynote 4 (8:50 - 9:40) - Sofia Teixeira		Keynote 6 (8:50 - 9:40) - Reinaldo Ramos	
09:20	198	Henrique Coelho Fernandes	314	Paulo Pedro Kenedi	31	Elvis Carneiro Monteiro	264	Eduardo H. de N. Miranda
09:40	177	José Jerônimo Rabelo Faria	289	Samuel da Silva	313	Danieli Dallé	-	-
10:00	215	F. A. Toti	168	Lucas L. Vignoli	344	Francisco Goyo	-	-
10:20	Break		Break		Break		Close BCCM 5	
10:40	69	Gabriel Sales Candido Souza	271	Ricardo De Medeiros	330	Robson P. Almeida		
11:20	379	Maciej Klosak	263	Matheus Rodrigues Silva	326	Silvia Jaeger		
11:40	36	Amanda A. Xavier da Silva	-	-	334	Ana Paula Cercal		
12:00	Invited Presentation 1 - Maurício Donadon		Invited Presentation 2 - Daniel Melo		Invited Presentation 3 - Ricardo de Medeiros			
12:20	Break (13:00 - 14:30)		Break (13:00 - 14:40)		Break (13:00 - 14:40)			
12:40	Keynote 2 (14:30 - 15:20) - Jandro Abot		Plenary Meeting		Invited Presentation 4 - Edson Botelho			
13:00	210	Cirlene Fourquet Bandeira			339	Jonas Rech Tedesco		
14:40	175	Mariana Baldini Santos			365	Jorge de Souza e Silva Neto		
15:00	51	Larissa de Fátima C. Pereira			322	Josué Marciano de O. Cremonuzzi		
15:20	366	Gabriel Damasceno Feres			346	Juliana T. Bertuoli		
15:40	Break		Close		Break			
16:00	8	Sandra Regina Scagliusi			Keynote 5 (17:20 - 18:10) - Amir Asadi			
16:40	281	Roberta Motta Neves			Close			
17:20	377	Cristiano Devitte			Close			
17:40	Close							
18:00								
18:20								

ROOM 5								
Time BRT(*)	January 19		January 20		January 21		January 22	
8:30 / 8:50	Opening (8:30 - 8:50) Keynote 1 (8:50 - 9:40) Marino Quaresimin		Keynote 3 (8:50 - 9:40) - Dirk Vandepitte		Keynote 4 (8:50 - 9:40) - Sofia Teixeira		Keynote 6 (8:50 - 9:40) - Reinaldo Ramos	
09:20	144	Maikson Luiz Passaia Tonatto	166	Lucas L. Vignoli	178	Alexandre Jorge Duarte de Souza	246	Felipe Amorim
09:40	61	Jorge Coutinho Diniz	207	Rogério Keizo Nakano	180	Mariana Ferreira Trevisan	87	Guilherme G. Braga
10:00	362	Ana Passos	368	Heloísa Zanardi	211	Paulo Augusto Nardi	320	Fernando C. Lage
10:20	Break		Break		Break		Close BCCM 5	
10:40	373	Daniel Francisco Bristot	315	Lucas Lisboa Vignoli	267	Kelvin Masakazu Kuroki Iwasaki		
11:20	110	Douglas Gama Caetano	72	Maísa M. A. D. Maciel	91	Lincoln Araujo Teixeira		
11:40	201	Carlos David R. Melo	204	Raphael Felipe	354	Alexandre O.T. Cordeiro		
12:00	Invited Presentation 1 - Maurício Donadon		Invited Presentation 2 - Daniel Melo		Invited Presentation 3 - Ricardo de Medeiros			
12:20	Break (13:00 - 14:30)		Break (13:00 - 14:40)		Break (13:00 - 14:40)			
12:40	Keynote 2 (14:30 - 15:20) - Jandro Abot		Plenary Meeting		Invited Presentation 4 - Edson Botelho			
13:00	28	Leandro Ferreira Friedrich			111	Vilson D. Libera Junior		
14:40	96	Sandro Martini			230	Gilberto García del Pino		
15:00	331	Victor Sloboda			82	Gabriela Luiza Cota Coura		
15:20	130	Renan Pereira de Andrade			156	Matheus Samponi T Arantes		
16:00	Break		Close		Break			
16:40	77	Dante Krivtsoff De' Grandis			Keynote 5 (17:20 - 18:10) - Amir Asadi			
17:20	208	Thiago T. N. Barrioni			Close			
17:40	160	Rafael Corrêa Salomão						
18:00	Close				Close			
18:20								

CODE	TITLE	KEY WORDS	TOPIC (*)
KEYNOTE 1	AN INTEGRATED APPROACH TO DESIGN AND MONITOR COMPOSITE STRUCTURES UNDER IN-SERVICE FATIGUE LOADINGS (Marino Quaresimin)		
KEYNOTE 2	SELF-SENSING COMPOSITE MATERIALS USING CARBON NANOTUBE YARNS: A NEW PARADIGM IN INTEGRATED STRUCTURAL HEALTH MONITORING (Jandro Abot)		
KEYNOTE 3	IDENTIFICATION OF UNCERTAINTY AND QUANTIFICATION OF VARIABILITY IN LONG FIBRE REINFORCED COMPOSITE MATERIALS (Dirk Vandepitte)		
KEYNOTE 4	ON THE INFLUENCE OF THE LAMINATE PROPERTIES ON THE FAILURE OF ADHESIVELY BONDED COMPOSITE STRUCTURES (Sofia Teixeira)		
KEYNOTE 5	SCALING UP THE MANUFACTURING OF HIERARCHICAL NANO/MICRO REINFORCED POLYMER COMPOSITES (Amir Asadi)		
KEYNOTE 6	MULTISCALE MODELING APPLIED TO THE STUDY OF HETEROGENEOUS STRUCTURES (Reinaldo Ramos)		
INV. PRESENT. 1	A CLT BASED CONSTITUTIVE MODEL TO PREDICT DISTORTIONS AND RESIDUAL STRESSES IN SEMI-CRYSTALLINE THERMOPLASTIC COMPOSITES (Maurício Donadon)		
INV. PRESENT. 2	DOUBLE-DOUBLE LAMINATES: TWO SETS OF CONTINUOUS PLY ANGLE VARIABLES TO REPLACE LEGACY QUAD LAMINATES (José Daniel Melo)		
INV. PRESENT. 3	STRUCTURAL HEALTH MONITORING TECHNIQUES APPLIED TO ANALYZE COMPOSITE STRUCTURES (Ricardo de Medeiros)		
INV. PRESENT. 4	STUDIES OF MULTIFUNCTIONAL COMPOSITES BASED ON BUCKYPAPERS (Edson Botelho)		
SHORT COURSE 1	INTRODUCTION TO INFRARED THERMOGRAPHY AS NDT METHOD (Henrique Fernandes)		
SHORT COURSE 2	INTRODUCTION TO THE FINITE ELEMENT METHOD APPLIED TO LAMINATED MATERIALS USING PYTHON (Murilo Sartorato)		
SHORT COURSE 3	TURBINE BLADES - AN OVERVIEW OF MODERN DESIGNS AND MANUFACTURING PROCESSES (Tulio Martins)		
SHORT COURSE 4	MICROMECHANICS OF COMPOSITES: THEORY AND PRACTICE USING MECH-GCOMP SOFTWARE (in Portuguese) (Sandro Amico)		
SHORT COURSE 5	COMPOSITES TESTING SYSTEMS: A COMPLETE OVERVIEW (in Portuguese) (Gustavo Videira)		

1	POSTBUCKLING RESPONSE OF FUNCTIONALLY GRADED HYBRID COMPOSITE PLATES UNDER UNIAXIAL COMPRESSION	Buckling Post Buckling Functionally graded Cutouts Compression	19
3	SURFACE ANALYSIS ON FACE SHEETS OF SANDWICH STRUCTURES AFTER AGING AND COMPRESSION TESTS	Surface properties Sandwich structures Aging Contact angle measurement Mechanical properties	31
4	Study of ionizing radiation (e-beam and gamma) in PLA irradiated at 150 kGy, used as compatibilizing agent in PBAT/PLA bio-based resins, reinforced with bio-calcium carbonate	ionizing radiation eggshell PLA PBAT compatibilization	8
8	STUDY OF DYNAMIC MECHANICAL PROPERTIES OF PP/EPDM POLYMERIC MIXTURES	Elastomers, thermoplastics, polymeric blends, gamma rays, compatibilization.	8
13	Rheological Characterization of HDPE And Soapstone Composites	soapstone polyethylene rheology particulate composites mineral fillers.	4
18	SPECTROSCOPIC ANALYSIS OF CARBON FIBER MODIFIED WITH IMIDAZOLIUM IONIC LIQUIDS	Carbon Fiber Ionic Liquid	15
19	POST-MORTEM ANALYSES OF BONDED STIFFENED COMPOSITE PANELS TESTED UNDER UNIAXIAL COMPRESSION	fatigue fracture joints fractographic analyses carbon composites	10
25	The using of Digital Image Correlation in the Mechanical Characterization of Composites	Composites, Digital Image Correlation, Mechanical Test, Strain gages	15
27	MAGNETIC ORIENTATION OF SISAL FIBERS IN CEMENTITIOUS MATRIX: MECHANICAL BEHAVIOR AND IMAGE ANALYSIS	sisal fibers magnetic alignment mechanical behavior radiography	30
28	NUMERICAL MODELING OF SPALLING DAMAGE IN FRC	Spalling pressure distribution FRC finite element method	10
31	COMPOSITE NANOMEMBRANES FOR ACOUSTICS APPLICATIONS: SEARCHING FOR A NOISELESS CABIN	nanomembranes electrospinning acoustics, aerogel, cabin noise	24
36	HYBRID EFFECT ON THE BALLISTIC IMPACT RESPONSE OF S2-GLASS/ARAMID HYBRID LAMINATES	hybrid laminates aramid, S2-glass ballistic tests vacuum infusion.	8



41	EXPERIMENTAL CHARACTERIZATION AND MODELING OF POROVISCOELASTIC MATERIALS	foam, viscoelastic properties, damping, mechanical testing	33
45	SYSTEMATIC REVIEW OF GLASS MICROSPHERES (HGM) AS REINFORCEMENT IN CEMENTITIOUS MATRIX	Hollow Glass Microsphere, Cement Matrix, Light-weight materials	33
46	MECHANICAL BEHAVIOR OF JUTE AND JUTE / E-GLASS FIBER REINFORCED POLYMER COMPOSITES	Jute fibers, polymer composite, hybridization, mechanical properties.	30
51	EXOTHERM ISSUES PREDICTIONS DURING THE CURING OF A THICK EPOXY MATRIX AND EFFECTS ON ELASTIC PROPERTIES	epoxy, cure kinetics, exothermal, couplings, properties gradients	39
53	ANTI-OPTIMIZATIONBASEDUNCERTAINTY ANALYSISFOR COMPOSITE LAMINATES	anti-optimization, laminated composites, interval-based uncertainty analysis, convex hull	22
55	ELECTROMECHANICAL EVALUATION OF IONOMERIC POLYMER METAL COMPOSITES USING VIDEO ANALYSIS	IPMC, Smart Materials, Electromechanical Behavior, Displacement, Video Analysis.	35
56	EFFECTS OF WATER ABSORPTION ON THE MECHANICAL PROPERTIES OF JUTE/POLYESTER LAMINATED COMPOSITES	natural fiber reinforced composites, jute, water absorption, polyester composites	30
58	USE OF VARIABLE ANGLE TOW COMPOSITES FOR PLATES UNDER COMPRESSIVE LOAD	VAT composites, buckling of plates, Rayleigh-Ritz model.	38
59	INFLUENCE OF MORINGA OLEIFERA'S NATURAL FIBER IN CEMENT COMPOSITES	Natural fiber composites, Moringa oleifera, mortar, cement composites	30
60	EVALUATION OF THE PRESSING TEMPERATURE OF POLYURETHANE FOAM COMPOSITES AND PLANT FIBERS	Sisal fiber, Sawdust, Vegetable oil, Mechanical properties, Pressing temperature	30
61	COMPOSITE REPAIRS TO RESTORE THE STRUCTURAL INTEGRITY OF TUBES WITH EXTERNAL CORROSION	pipeline, corrosion, repair, composite, burst.	11
64	UNIFIED FORMULATION FOR COMPOSITE PLATE STRUCTURES: IMPLEMENTATION AND EVALUATION	Composite plates, Unified Finite Element Formulation, Carrera Unified Formulation (CUF).	6

69	AN EXPERIMENTAL INVESTIGATION OF LAMINATED FIBER-REINFORCED COMPOSITES UNDER SHEAR-AFTER-IMPACT CONDITIONS	fiber-reinforced composites, rail test, drop test, barely visible impact damage, shear-after-impact.	15
72	A methodology for modeling variable axial laminates: a case study of a uniformly loaded circular plate	Variable-axial; RVE; Finite element analysis.	38
77	CHARACTERIZATION AND SIMULATION OF THE DRAPING BEHAVIOUR OF THERMOPLASTIC FABRICS	composites, draping, thermoforming, finite elements, bias-extension test.	7
78	DEVELOPMENT OF SEMI-CONCURRENT MULTISCALE ROUTINE FOR HYBRID POLYMER COMPOSITES CONTAINING CARBON FIBRE AND SILICA MICROPARTICLES	Multiscale, Homogenization, Microparticles, Semi-concurrent, Hybrid Composite	1
79	COMPUTATION OF DERIVATIVES OF OBJECTIVE FUNCTION WITH RESPECT TO LAMINATE COMPLIANCE COMPONENTS	Composites, lamination parameters, optimization techniques	32
80	Finite element and domain decomposition methods in fibrous composites via asymptotic homogenization	Finite Element method, Domain Decomposition method, FreeFEM++, GMSH	1
82	A PRELIMINARY INVESTIGATION ON PAPAYA BAST FIBRE-REINFORCED EPOXY COMPOSITES	Papaya bast fibre, epoxy resin, mechanical properties	30
87	THREE-POINT BENDING AND IMPACT BEHAVIOUR OF COIR FIBRE-REINFORCED CASTOR OIL COMPOSITES	composite material, short coir fibres, castor oil resin	30
91	EFFECT OF DIFFERENT SURFACE TREATMENTS ON THE THERMAL PROPERTIES OF CURAUA FIBRE AND CURAUA/POLYESTER COMPOSITES	Curaua, Polyester, Composite, TGA, FTIR.	30
94	METHODOLOGY FOR COMPOSITE PRESSURE VESSEL OPTIMIZATION BASED ON CLT	Design optimization, Composite materials, Finite element method, Tsai-Wu criterion method.	8
96	TOWARDS A TOUGHNESS GAIN IN A HIGH-PERFORMANCE FIBER REINFORCED CONCRETE BY MAGNETIC FIBER ALIGNMENT	HPFRC, Toughness, Magnetic alignment.	9
98	A METHODOLOGY FOR EVALUATING THE MECHANICAL BEHAVIOR OF COMPOSITES BASED ON PLAIN-WEAVE FABRICS	woven composites, micromechanics, RVE, homogenization, anisotropy.	8
100	CHARACTERIZATION OF ACROCOMIA ACULEATA ENDOCARP AND ITS POTENTIAL USE AS BIO-AGGREGATE FOR CEMENT BASED MATRIX	Bio-aggregate; Lightweight concrete.	3
108	PRELIMINARY INVESTIGATIONS ON SANDWICH PANELS MADE ALUMINIUM SKINS AND CIRCULAR PVC HONEYCOMB CORE	PVC pipe honeycomb, sandwich panels, sustainability, flexural properties.	8

110	ANALYSIS OF THE FAILURE OF A CFRP MAST OF A SMALL RACING SAILBOAT	failure analysis, fracture, carbon fiber reinforced plastic, sailboat mast.	16
111	MECHANICAL BEHAVIOR OF SHORT CURAUA FIBRES AS REINFORCEMENT OF DIFFERENT POLYMERIC COMPOSITES	Curaua fibres. polymeric composites. mechanical properties.	30
113	CHARACTERIZATION OF COFFEE HUSK (COFFEA ARABICA) AND ITS USE IN LIGHTWEIGHT BIO-CONCRETE PRODUCTION	Coffee; Coffee husk; Renewable materials; Bio-concrete; Lightweight Concrete.	3
118	DEVELOPMENT AND CHARACTERIZATION OF ZRO <sub>2</sub> .24MGO CERAMICS WITH ADDITION OF TIO <sub>2</sub> FOR USE AS TBC	magnesia, solid-state sintering, thermal barrier coating, zirconia	2
121	A SEMI-ANALYTICAL MODEL FOR CRIPPLING LOAD PREDICTION IN COMPOSITE STIFFENERS	Composite, Linear buckling, Semi-analytical, Rayleigh-Ritz method	8
127	A NUMERICAL HOMOGENIZATION TECHNIQUE FOR UNIDIRECTIONAL COMPOSITES USING POLYGONAL FINITE GENERALIZED ELEMENTS	generalized finite elements, homogenization	1
129	Buckling Optimization in Variable Stiffness Composite Laminated	Composite laminates of variable stiffness, Variable Axial, Genetic Algorithm, buckling, critical load, finite element method.	38
130	APPLICATION OF INFRARED THERMOGRAPHY FOR THE INSPECTION OF PATHOLOGICAL MANIFESTATIONS IN A FAÇADE OF A BUILDING LOCATED IN SÃO PAULO	Pathological manifestations, infrared thermography, adhered façades, detachment, Technological innovation	31
131	INFLUENCE OF CONCRETE FCK ON THE MECHANICAL BEHAVIOR OF CARBON FIBER REINFORCED BEAMS	Structural reinforcement, Carbon fiber, CFRP, Strengthening of the reinforced concrete bending beams with CFRP, Composite materials in reinforced beams	17
132	A Study on the Best Conventional Shapes for Composite Repair Patches	Repair patch, damaged laminate, structural optimization, modal response, shell FE.	2
135	PREDICTION OF THE EFFECTIVE YOUNG MODULUS OF 2D PERIODIC CELLS VIA FINITE ELEMENT ANALYSIS	Al <sub>2</sub> O <sub>3</sub> /glass, micromechanics, finite element method, effective macroscopic properties	23

137	FUSED DEPOSITION MODELING FIBER CONTENT EVALUATION WITH DIGITAL IMAGE TREATMENT TECHNIQUES	Fiber content, Image treatment, SEM, Markforged	15
139	OVERVIEW OF MODE I STRAIN ENERGY RELEASE RATE CALCULATION FOR ADHESIVE JOINTS	adhesive, strain energy release rate, double cantilever beam.	21
143	Processing Characterization of Uncured Sisal/ Epoxy Prepregs	natural fibers prepregs, gel-time, water absorption, volatile, adhesion strength.	30
144	Modelling of circular honeycomb sandwich panels containing glass fibre composite skins and bottle caps core	Sandwich panels, circular honeycomb, Finite Element (FE), Three-point bending.	25
149	Mechanical properties of sandwich structures made disposed bottle caps core and glass fibre composite skins	Sandwich panels, circular honeycomb, Design of Experiments, Analysis of Variance.	25
155	COMPOSITE CONFIGURATION OPTIMIZATION BY METAHEURÄSTIC ALGORITHM	composite, optimization, finite element method	32
156	PREPARATION OF BIODEGRADABLE COMPOSITE WITH PALM HEART AGROINDUSTRY WASTE BIOMASS	Polyurethane, Green Composite, Palm fiber, Properties, Characterization	30
160	THERMAL CONDUCTION MODELLING OF COMPOSITES BY EMBEDDING TECHNIQUE	Composite modelling, FEM, Embedding technique, Thermal problem	39
163	APPLICATION OF AC IMPEDANCE SPECTROSCOPY FOR THE EVALUATION OF GRAPHENE OXIDE CEMENTITIOUS COMPOSITES	AC-impedance spectroscopy, graphene oxide, cement mortars.	31
166	MICROMECHANICAL MODEL FOR TRANSVERSAL TENSILE STRENGTH OF UNIDIRECTIONAL LAMINAE	transversal strength, micromechanics, composite, unidirectional laminae, analytical model.	23
168	MODELING OF SHAPE MEMORY ALLOY COMPOSITE	SMA, smart composite, shape memory effect	35
169	Viscoelastic and Continuum In-Plane Damage Models for Fibrous Composite Materials: A Review	Fibrous composites, computational modeling, viscoelasticity, continuum in-plane damage	10
175	MORPHOLOGICAL AND THERMAL EVALUATION OF POLY (ETHER IMIDE)/CARBON FIBER/GRAPHENE COMPOSITES	thermoplastic, graphene, PEI, TGA, SEM	2
176	CRACK PATTERN OF COMPOSITE MODEL MATERIALS SUBMITTED TO A TEMPERATURE INCREASE ASSISTED BY DIC	Model composite, Properties mismatch, temperature variation.	16

177	RECENT ADVANCES IN NDT FOR IMPACT DAMAGE DETECTION IN COMPOSITE MATERIALS	Non-Destructive Testing, Composite Materials, Impact Damage	31
178	PRODUCTION OF COMPOSITE OBTAINED WOOD SAW DUST AND NATURAL ADHESIVES FOR USING IN WOOD FRAMING HOUSE SYSTEM	wood framing, wood composites, medium density particleboard, natural adhesive	30
180	Influence of leather fiber on modulus of elasticity in bending test and of bend strength of particleboards.	Particleboard, Leather, Eucalyptus.	3
181	EXPLORING THE OPENCV LIBRARY FOR IMAGE PROCESSING IN LONG-PULSE THERMOGRAPHY	Thermography, Non-Destructive Testing, Composite Materials, Image Processing, OpenCV	31
182	COMPACTED CEMENTITIOUS COMPOSITES MADE WITH HDPE WASTE: A STATISTICAL APPROACH	high density polyethylene, quartz, cement, composite, design of experiment.	32
192	INVESTIGATION OF RHEOLOGICAL BEHAVIOR OF SELF-COMPACTING AND HIGH PERFORMANCE COMPOSITE CONCRETES	Concrete, Rheology, Silica Fume, Superplasticizer	15
197	ON THE USE OF ASYMPTOTIC HOMOGENIZATION TO PREDICT THE COUPLED COMPONENTS OF THE EFFECTIVE CONSTITUTIVE MATRIX OF LAMINATED COMPOSITES	Asymptotic Homogenization Method, Finite Element Method, Abaqus	23
198	INFRARED THERMOGRAPHY FOR IMPACT DAMAGE ANALYSES ON CURVED CFRP LAMINATES USED IN GEOSTATIONARY SATELLITES	carbon fiber-reinforced thermoplastic, impact loading, infrared thermography, curved geometry	31
199	INFLUENCE OF HORNIFICATION ON PLASTER PLATES STRENGTHENED WITH SISAL STRUCTURAL FABRICS	Fabric sisal, plaster, hornification.	30
201	THERMOMECHANICAL ANALYSIS OF FUNCTIONALLY GRADED HIGH-TEMPERATURE PRESSURIZED CYLINDERS	FGM, Pressure Vessel, Finite Element Method.	19
204	THE EFFECT OF HIGH TEMPERATURES ON STEEL FIBER REINFORCED CONCRETE	high temperatures, concrete, steel fibers, mechanical properties, DEWS.	39
207	APPLYING MULTISCALE APPROACH ON THE CFRP MATERIAL CHARACTERIZATION TO IMPROVING CRASHWORTHINESS PREDICTION OF COMPOSITE BUMPER SYSTEM CAE MODEL	Woven Composite, Material characterization, Multiscale, Carbon fiber reinforced plastic	1



208	SOFT METACOMPOSITES CHARACTERIZATION: THE KIRIGAMI GEOMETRY/STRESS FIELD CORRELATIONS	Metamaterials, Kirigami, Composites, Carbon Nanotubes	7
209	PRODUCTION AND CHARACTERIZATION OF CERAMIC MATRIX COMPOSITES (CMC) BASED ON ZIRCONIA-TITANIA REINFORCED WITH RARE EARTH OXIDE FOR TURBINE EXHAUST SYSTEM COATING	aerospace turbines, ceramic composites, coating, zirconia-titania, Y2O3.	4
210	PRODUCTION AND CHARACTERIZATION OF BENZOXAZINE RESIN COMPOSITES REINFORCED WITH 20% MACADAMIA NUTSHELL BIOMASS	benzoxazine resin, macadamia nutshell, thermal analysis, characterization of composites, reuse	30
211	PRODUCTION AND CHARACTERIZATION OF GREEN POLYMERIC COMPOSITE USING WOOD WASTE	Polyurethane, wood chips, composite, green polymeric	3
214	ANALYSIS OF DELAMINATION OF COMPOSITE LAMINATES VIA XFEM BASED ON THE LAYERWISE DISPLACEMENT THEORY AND COHESIVE ZONE METHOD	composite, laminate , XFEM, layerwise, delamination	1
215	COMPARATIVE ANALYSIS OF THE DAMAGE VOLUME AND THE RELATIONSHIP WITH THE MECHANICAL ENERGY OF THE DRILLING PROCESS UNDER DRY CONDITIONS AND WITH CRYOGENIC COOLING IN THE COMPOSITE LAMINATE PPS-C	micro-CT, damage tension, cryogenic cooling, damage fracture,	10
218	OPTIMIZATION OF THE LAMINATE STACKING SEQUENCE FOR A FLEXIBLE SUBSEA PIPELINE OF PEEK/CF COMPOSITE	finite element method, pipeline, PEEK/CF, optimization, composite materials	8
220	Defining specimen size for the wedge splitting test to analyze the fracture process zone	Wedge splitting test, Hillerborg length, fracture process zone, specimen geometry, cohesive zone model	15
222	MODELLING OF SLJ BONDED JOINTS WITH DIFFERENT ADHESION DEGREES USING COHESIVE ZONE MODEL	Bonded Joints, Single Lap Joint, Finite Element, CZM.	21
223	FREE VIBRATION OF BEAMS USING FINITE ELEMENT METHOD STRAIN GRADIENT NOTATION	Free vibration, Strain Gradient Notation, Timoshenko beam, Finite element method, Guyan's Reduction, Laminated composites.	6
229	INJECTION OVER-MOLDED POLYCARBONATE-ALUMINUM COMPOSITE STRUCTURES	injection over-molding; laser structuring; polymer-metal hybrid joints; PMH.	21
230	OPTIMIZATION OF THE TENSILE CHARACTERISTICS OF BIO-COMPOSITE CURAUA-EPOXY USING TAGUCHI METHOD	Biocomposite, Natural fibers, Mechanical properties, Taguchi	30

239	BOUNDARY ELEMENT MODELING OF INTERFACE SHEAR FOR TWILL FABRIC LAMINATED COMPOSITE UNDER CONTACT	Delamination; Frictional Contact; Anisotropic Fundamental Solutions; Boundary Element Method; Twill Fabric Composites.	1
241	THE DEVELOPMENT OF WAVELETS ANALYSIS TO GENERATE AN ACOUSTIC EMISSION PATTERN IN A NEW ROTOCASTING MANHOLE	Manhole Acoustic Emission, Wavelet Transform, Fourier Analysis, Rotocasting Polyethylene.	31
246	FIBER LENGTH EFFECT ON THE PERFORMANCE OF PIASSAVA FIBER REINFORCED COMPOSITES	composites, natural fibers, mechanical properties.	30
250	INVESTIGATION ON THE EXISTENCE OF PHYSICAL-CHEMICAL INTERACTION BETWEEN EPOXY MATRIX AND FIBRILLATED CELLULOSE IN NANO / MICROCOMPOSITES	Nano / microcomposites; cure effectiveness; cellulose, physical-chemical interaction.	29
251	THE EFFECT OF STRESS AND STRAIN CONTROL ON POLYURETHANE ELASTOMERS' BEHAVIOR	elastomers, visco-hyperelasticity, Mullins effect	13
253	NUMERICAL MODELLING OF HELICAL CABLES USING BEAM-BASED METAELEMENTS IN THE NONLINEAR DISPLACEMENT RANGE	helical cables, beam elements, geometric nonlinearities.	1
258	EFFECT OF GEOMETRY ON PHYSICAL AND MATERIAL PROPERTIES OF FILAMENT WOUND LAMINATES	composite cylinder, flat laminates, filament winding.	15
259	ACOUSTICAL PROPERTIES OF POLYESTER/JUTE/GLASS HYBRID COMPOSITES	timber, musical instruments, jute, unidirectional fabric.	30
262	FREQUENCY-DOMAIN FATIGUE ANALYSIS OF BONDED JOINT UNDER RANDOM LOADS	Fatigue, Random Loads, Bonded Joints, Adhesive Crack Growth	21
263	A NUMERICAL APPROACH TO EVALUATE THE INFLUENCE OF THE PIEZOELECTRIC LAYER POSITION ON THE EFFECTIVE PROPERTIES OF A SMART LAMINATED COMPOSITE	Smart layered composites, RVE, piezoelectric layer, FEM, shear effective coefficients.	35
264	MORPHOLOGICAL, THERMAL AND CHEMICAL CHARACTERIZATION OF COFFEE HUSKS AND ITS ASHES	Agro-industrial ash, additive, X-ray diffraction, thermoanalysis, pozzolans.	7
265	CHEMICAL CHARACTERIZATION OF PORTLAND CEMENT BASED PASTES WITH THE ADDITION OF COFFEE HUSK ASHES	Agroindustrial waste, thermogravimetry, pozzolans, supplementary materials.	7
267	BAMBOO FIBER REINFORCED EPOXY COMPOSITE USING GUADUA ANGUSTIFOLIA FIBERS EXTRACTED VIA VENEER ROTARY PEELING	Bamboo fibers, Epoxy, Thermal properties, Mechanical properties.	30

271	DAMAGE DETECTION OF COMPOSITE BEAM STRUCTURES USING VIBRATION RESPONSE AND ARTIFICIAL NEURAL NETWORKS	Artificial Neural Networks, Structural Health Monitoring, Damage detection, Composite Materials, Dislocated-Series (DS).	37
281	DYNAMIC-MECHANICAL PROPERTIES OF SILANIZED MICROCRYSTALLINE CELLULOSE/EPOXY COMPOSITES	microcrystalline cellulose, epoxy resin, composites, silane modification, dynamic-mechanical properties	13
282	A HYPER-SURFACE NORMAL PROJECTION METHOD FOR STEERED-FIBER COMPOSITE OPTIMIZATION	laminated composites, metaheuristic optimization, finite element analysis, steered-fiber composite optimization.	32
284	KRIGING SURROGATE MODEL APPLIED TO ANALYZE THE DYNAMIC RESPONSE OF COMPOSITE STRUCTURES	composite materials, kriging metamodel, EGO, Latin Hypercube, FEM, vibration analysis	31
285	Detection and propagation of structural faults of composite aircraft Joint using digital image correlation techniques	digital image, Carbon/epoxy composite; bolted joint; anisotropy	10
287	VIBRATIONS OF ORTHOTROPIC FUNCTIONALLY GRADED STRAIN GRADIENT NANO PLATES VIA HERMITIAN FINITE ELEMENT FORMULATION	Functionally graded orthotropic materials, Laminated composite plates, Halpin-Tsai approach, Natural frequencies, Finite element model.	6
289	Debonding Quantification in Large Wind Turbine Blades Based on Gaussian Process Regression	debonding quantification, wind turbine blades, Gaussian process regression	37
291	ON THE DEVELOPMENT OF MULTI-DIRECTIONAL POLYAMIDE COMPOSITE LAMINATES BY ULTRASONIC PLASTIC WELDING	ultrasonic plastic welding, polyamide, woven fibers, composite, laminate, SEM, DSC, TGA	21
292	OPEN-HOLE COMPRESSION STRENGTH OF CARBON FIBRE FABRIC REINFORCED LOW MELTING PAEK COMPOSITE	carbon fibre composites, thermoplastic composites, polyaryletherketone, open-hole compression	2
293	OVERALL VISCOELASTIC PROPERTIES OF FIBER-REINFORCED HIERARCHICAL COMPOSITES	Hierarchical composites, wavy fibers, carbon nanotube-reinforcement, polymer viscoelastic matrix, three-scale asymptotic homogenization method.	8
312	AN HYBRID FINITE ELEMENT/EXPERIMENTAL ANALYSIS OF AGED SINGLE-LAP JOINTS NANOMODIFIED BY GRAPHENE	finite element analysis, graphene, single-lap joints, UV ageing, stress analysis.	21

313	THERMAL EVALUATION OF COMPOSITE FILMS PRODUCED WITH NANOFIBRILLATED CELLULOSE/LDPE/HDPE	Thermal properties, nanofibrillated cellulose, nanocomposites films.	29
314	THERMOGRAPHIC ASSESSMENT OF THE FAILURE OF AN ORTHOTROPIC COMPOSITE PLATE	thermographic method, partial failures, composite plate	15
315	STRESS CONCENTRATION ASSESSMENT OF ORTHOTROPIC COMPOSITES	stress concentration, Stroh formalism, multiscale analysis	11
316	Mixed-mode fracture of composite-to-metal bonded joints	bonded joints; fracture mechanics; adhesion; crack propagation	21
317	FLUORINATED RUBBER WITH ARAMID PULP AND IMIDAZOLIUM SALT-TREATED ARAMID PULP	composites; fibers; ionic liquids; rubber	32
318	Buckling load analysis of composite structures with thermal variation	Thermal Variation, Critical buckling load, Mathematical analysis	39
320	ELEPHANT GRASS AND CELLULOSE RENEWABLE COMPOSITES: A STUDY OF PRETREATMENTS AND MECHANICAL PROPERTIES	Composite Materials, Elephant Grass, Cellulose, Pretreatments.	30
321	Thermal stability and UV resistance of nanocellulose/tannin hybrid films	Nanofilms, UV exposure, eco-friendly films.	12
322	THE EFFECTIVE ASPECT RATIO AS AN EFFICIENCY MEASUREMENT OF MECHANICAL REINFORCEMENT OF POLY(VINYL BUTIRAL) BY BIDIMENSIONAL NANOPARTICLES	Polymer nanocomposites, Mechanical reinforcement, Bidimensional nanomaterials, Graphene oxide, Molybdenum disulfide	29
323	COMPOSITE BEAMS UNDER LARGE AND MODERATE DEFORMATION ACCOUNTING FOR MATERIAL COUPLINGS	reinforced composite beams, nonlinear finite elements, total Lagrangian formulation.	6
324	BENDING BEHAVIOUR OF SANDWICH PANELS WITH XPS CORE AND CEMENTITIOUS COMPOSITE FACES REINFORCED WITH JUTE FABRIC	Composites, Sandwich Panel, Jute Fabric.	15
326	LOW DENSITY POLYETHYLENE NANOCOMPOSITE CONTAINING Zn/Ti LAYERED DOUBLE HYDROXIDE	Zn/Ti layered double hydroxide, low-density polyethylene, nanocomposite, UV-Vis photodegradation	29
330	THIN-FILM GRAPHENE OXIDE/POLYSULFONE COMPOSITE MEMBRANES FOR WATER DESALINATION PROCESSING	thin-film composite membrane; graphene oxide; polysulfone; desalination process.	29
331	COMPUTATIONAL MODELING OF STEEL FIBER REINFORCED CONCRETE	Concrete. Steel fiber. Modeling. Cracking.	9
332	STEPPED ISOSTRESS METHOD IN FLEXURAL MODE FOR CREEP ANALYSIS OF EPOXY WITH IMIDAZOLIUM IONIC LIQUID	epoxy, ionic liquid, creep, stepped isostress method	15

333	STUDY (ANALYSIS) OF POLY LACTIC ACID COMPOSITES WITH CELLULOSE EXTRACTED FROM THE PINEAPPLE CROWN	PLA (Poly Lactic Acid), pineapple, formulation, mechanical resistance.	9
334	Influence of a PEG-b-PPG-b-PEG copolymer addition on properties of an epoxy resin	Copolymer, Epoxy, morphology, properties	29
336	Assessment of the effect of fiber percentage in the glass fiber reinforced slag-based geopolymer	blast furnace slag, cement Portland, sodium silicate activating solution, fiber percentage, glass fiber, mechanical properties	8
337	Application of Maxwell homogenization method to composite materials	Maxwell method, homogenization	8
338	FATIGUE CHARACTERIZATION FOR SISAL FIBRE/EPOXY LAMINATE COMPOSITES	Natural fibre composite, Sisal, Fatigue, Stiffness.	30
339	EVALUATION OF A NOVEL ROUTE FOR THE INCORPORATION OF NANOFIBRILLATED CELLULOSE INTO LOW DENSITY POLYETHYLENE	nanofibrillated cellulose, nanocomposites, dynamic-mechanical properties, low density polyethylene, incorporation process	32
340	DESIGN OF INTERCONNECTED MACROPOROUS Si(B)C CERAMICS BY PDC ROUTE	porous ceramics, polymer derived ceramic, sacrificial agent.	33
342	INFLUENCE OF THE ADHESIVES APPLICATION TIME ON COMPOSITE REPAIR SYSTEMS FOR METALLIC PIPES WITH THROUGH-THICKNESS DAMAGE	Blister test, pipeline repair, adhesives, composites, failure pressure.	15
344	Vacuum assisted cellulose infusion: A technique for nano-reinforcements deposition for multiscale composites.	multi-scale composites, nano-cellulose, MFC, vacuum-assisted infusion	27
346	MECHANICAL PROPERTIES OF COMPOSITE COATINGS EPOXY/GRAPHEN NANOPATELETS ON GALVANIZED STEEL	epoxy resin, composites, graphene nanoplatelets, galvanized steel.	29
347	Evaluation of mechanical properties and capillary water absorption in mortars of amazon rainforest natural fibers cured in a pressurized autoclave with insufflated CO <sub>2</sub>	Water Absorption; Mechanical properties, Natural fibers; Cement Composites; Autoclaved cure.	30
348	LICURI FIBER ION IN PORTLAND CEMENT, AND ITS EFFECTS ON MECHANICAL PROPERTIES	Cement, licuri fiber, mechanical properties, renewable resources.	4
353	A COMPARATIVE STUDY OF 3D STITCHED COMPOSITES AND COMPOSITE LAMINATE. PART I: FLEXURAL PROPERTIES	3D stitched composites, flexural properties, delamination, polymer-matrix composites.	8



354	STUDY OF THE MORPHOLOGICAL AND MECHANICAL PROPERTIES OF PLASTICIZED PVC COMPOSITES CONTAINING BAMBOO SAWDUST FOR APPLICATION IN FOOTWEAR	Bamboo sawdust, composite, PVC, shoe soles and footwear	30
357	EVALUATION OF THERMAL PERFORMANCE IN CERAMIC COMPOSITES USING SUBSTITUTION WITH RICE HUSK ASH AND CALCINED ALUMINA	refractory ceramic composites, rice husk ash, calcined alumina, thermal shock test	4
358	Comparison of ultrasonic methods for detecting defects in unidirectional composite material	Non-destructive inspection, ultrasound, unidirectional composite, Lcr wave, phased array.	31
360	Candeia oil (Eremanthus erythropappus) influence on PVC/lignocellulosic composite mechanical and antibacterial properties	additive, essential oil, mechanical properties, incorporation, antimicrobial	4
361	Numerical calculation to cross-sectional properties and bending stress analysis of composite beams	Composite beams, Cross-sectional properties, Stress analysis, Gaussian quadrature	11
362	Adhesion performance of composite and geopolymer sandwich structures	Composite materials, Geopolymer, Epoxy adhesive, Polyurethane adhesive, Sandwich Structures.	8
363	Compression Behavior of a Bio-Based Polyurethane Foam Reinforced with Aluminum Hydroxide	Bio-based polyurethane foam, Polymer compression test, Bio-based polymer, Foam compression test.	33
364	EXPERIMENTS ON ADHESIVELY BONDED JOINTS OF HYBRID REINFORCED JUTE/GLASS FIBRE COMPOSITES	Composite materials, Natural fibres, Synthetic fibres, Bonded joints	21
365	Effect of multi-walled carbon nanotubes on the thermal and mechanical properties of epoxy resins	Nanocomposites, epoxy, thermal analysis, mechanical properties, multi-walled carbon and sonication.	24
366	STUDY OF THE INFLUENCE OF CARBON NANOTUBES BUCKYPAPER IN THE THERMAL BEHAVIOUR OF PAEK/CARBON FIBER COMPOSITE	buckypaper, composite, PAEK, carbon nanotubes, polymer	2
367	Carbon/carbon composites obtained PEEK/Carbon Fiber	carbon/carbon, PEEK, impregnation	2
368	COMPUTATION TOOL BASED ON FINITE ELEMENT SIMULATIONS FOR PREDICTION OF COMPOSITE MATERIALS EFFECTIVE ELASTIC PROPERTIES	Representative Volume Element, Effective properties, Mechanical properties, Periodic Boundary Conditions	23
369	EVALUATION OF THE WETTABILITY OF EPOXY/GRANITE COMPOSITES THROUGH CONTACT ANGLE	epoxy/granite, contact angle, wettability, FTIR	4

373	Modelling of polymer-based honeycomb sandwich panels under bending	Sandwich panels, Plywood panels, FEM, Automotive Industry, Honeycomb, Simulation.	25
376	EFFECTS OF VORTEX-COOLED COMPRESSED AIR ON SURFACE QUALITY IN END MILLING CARBON FIBER REINFORCED PLASTIC	carbon fiber reinforced plastic, milling, surface roughness, vortex-cooled compressed air.	32
377	TEMPERATURE EVALUATION IN CFRP DRILLING	CFRP, matrix degradation temperature, temperature drilling, cutting fluid.	15
379	EXPERIMENTAL ASSESSMENT OF GLASS/EPOXY HIGH VELOCITY IMPACT PERFORMANCE AT DIFFERENT TEMPERATURES	s2-glass/epoxy, gas gun, dynamic testing, ballistic properties	20