

Michal Petru

List of Publications by Year in descending order

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181
papers

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citations

159358

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185
docs citations

185
times ranked

1957
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro- and Nanocellulose in Polymer Composite Materials: A Review. <i>Polymers</i> , 2021, 13, 231.	2.0	192
2	Accelerating Fe(II)/Fe(III) cycle via Fe(III) substitution for enhancing Fenton-like performance of Fe-MOFs. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119859.	10.8	138
3	Sound Absorption Properties of Natural Fibers: A Review. <i>Sustainability</i> , 2020, 12, 8477.	1.6	101
4	Influence of Nanoparticles on Thermal and Electrical Conductivity of Composites. <i>Polymers</i> , 2020, 12, 742.	2.0	89
5	Natural Fiber Reinforced Composite Material for Product Design: A Short Review. <i>Polymers</i> , 2021, 13, 1917.	2.0	88
6	Acoustic, Mechanical and Thermal Properties of Green Composites Reinforced with Natural Fibers Waste. <i>Polymers</i> , 2020, 12, 654.	2.0	84
7	Synthesis and applications of ZnO nanostructures (ZONs): a review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 99-141.	6.8	80
8	Effect of Nanofillers on Tribological Properties of Polymer Nanocomposites: A Review on Recent Development. <i>Polymers</i> , 2021, 13, 2867.	2.0	77
9	Delamination and Manufacturing Defects in Natural Fiber-Reinforced Hybrid Composite: A Review. <i>Polymers</i> , 2021, 13, 1323.	2.0	67
10	Finite element method model of the mechanical behaviour of <i>Jatropha curcas</i> L. seed under compression loading. <i>Biosystems Engineering</i> , 2012, 111, 412-421.	1.9	65
11	Vehicle-Assisted Techniques for Health Monitoring of Bridges. <i>Sensors</i> , 2020, 20, 3460.	2.1	64
12	One-Pot Sonochemical Synthesis of ZnO Nanoparticles for Photocatalytic Applications, Modelling and Optimization. <i>Materials</i> , 2020, 13, 14.	1.3	59
13	Flammability, Tensile, and Morphological Properties of Oil Palm Empty Fruit Bunches Fiber/Pet Yarn-Reinforced Epoxy Fire Retardant Hybrid Polymer Composites. <i>Polymers</i> , 2021, 13, 1282.	2.0	57
14	Fourth generation biofuel from genetically modified algal biomass: Challenges and future directions. <i>Chemosphere</i> , 2021, 285, 131535.	4.2	57
15	An Energy-Based Concept for Yielding of Multidirectional FRP Composite Structures Using a Mesoscale Lamina Damage Model. <i>Polymers</i> , 2020, 12, 157.	2.0	48
16	Geopolymers and Fiber-Reinforced Concrete Composites in Civil Engineering. <i>Polymers</i> , 2021, 13, 2099.	2.0	47
17	Health Monitoring of Civil Infrastructures by Subspace System Identification Method: An Overview. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2786.	1.3	46
18	Photocatalytic Behaviour of Zinc Oxide Nanostructures on Surface Activation of Polymeric Fibres. <i>Polymers</i> , 2021, 13, 1227.	2.0	43

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19	Structural design of efficient fog collectors: A review. <i>Environmental Technology and Innovation</i> , 2020, 20, 101169.	3.0	42
20	Bio-Composites Reinforced with Natural Fibers: Comparative Analysis of Thermal, Static and Dynamic-Mechanical Properties. <i>Fibers and Polymers</i> , 2020, 21, 619-627.	1.1	42
21	Kenaf Fiber/Pet Yarn Reinforced Epoxy Hybrid Polymer Composites: Morphological, Tensile, and Flammability Properties. <i>Polymers</i> , 2021, 13, 1532.	2.0	42
22	Improving "Lipid Productivity"™ in Microalgae by Bilateral Enhancement of Biomass and Lipid Contents: A Review. <i>Sustainability</i> , 2020, 12, 9083.	1.6	41
23	Development and Characterization of Physical Modified Pearl Millet Starch-Based Films. <i>Foods</i> , 2021, 10, 1609.	1.9	41
24	Effect of Chemically Treated Kenaf Fibre on Mechanical and Thermal Properties of PLA Composites Prepared through Fused Deposition Modeling (FDM). <i>Polymers</i> , 2021, 13, 3299.	2.0	41
25	Calculation of the robot trajectory for the optimum directional orientation of fibre placement in the manufacture of composite profile frames. <i>Robotics and Computer-Integrated Manufacturing</i> , 2015, 35, 42-54.	6.1	38
26	The effect of surface treatment on the creep behavior of flax fiber reinforced composites under hygrothermal aging conditions. <i>Construction and Building Materials</i> , 2019, 208, 220-227.	3.2	38
27	A Review on Vehicle Classification and Potential Use of Smart Vehicle-Assisted Techniques. <i>Sensors</i> , 2020, 20, 3274.	2.1	38
28	Excellent UV-Light Triggered Photocatalytic Performance of ZnO.SiO ₂ Nanocomposite for Water Pollutant Compound Methyl Orange Dye. <i>Nanomaterials</i> , 2021, 11, 2548.	1.9	38
29	Functional Properties of Sonochemically Synthesized Zinc Oxide Nanoparticles and Cotton Composites. <i>Nanomaterials</i> , 2020, 10, 1661.	1.9	36
30	Development and Characterization of Fenugreek Protein-Based Edible Film. <i>Foods</i> , 2021, 10, 1976.	1.9	33
31	Mechanical, morphological, and fracture-deformation behavior of MWCNTs-reinforced (Al-Cu-Mg-T351) alloy cast nanocomposites fabricated by optimized mechanical milling and powder metallurgy techniques. <i>Nanotechnology Reviews</i> , 2021, 11, 65-85.	2.6	31
32	Using Finite Element Approach for Crashworthiness Assessment of a Polymeric Auxetic Structure Subjected to the Axial Loading. <i>Polymers</i> , 2020, 12, 1312.	2.0	30
33	Nano-Level Damage Characterization of Graphene/Polymer Cohesive Interface under Tensile Separation. <i>Polymers</i> , 2019, 11, 1435.	2.0	28
34	Application of the Subspace-Based Methods in Health Monitoring of Civil Structures: A Systematic Review and Meta-Analysis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3607.	1.3	28
35	An Optimum Fatigue Design of Polymer Composite Compressed Natural Gas Tank Using Hybrid Finite Element-Response Surface Methods. <i>Polymers</i> , 2021, 13, 483.	2.0	28
36	Performance improvement of a new proposed Savonius hydrokinetic turbine: a numerical investigation. <i>Energy Reports</i> , 2020, 6, 3051-3066.	2.5	27

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37	Effect of Sonication and Nano TiO ₂ on Thermophysiological Comfort Properties of Woven Fabrics. ACS Omega, 2020, 5, 11481-11490.	1.6	26
38	Effect of Alumina Additives on Mechanical and Fresh Properties of Self-Compacting Concrete: A Review. Processes, 2021, 9, 554.	1.3	26
39	Classification of Textile Polymer Composites: Recent Trends and Challenges. Polymers, 2021, 13, 2592.	2.0	26
40	Representative Cell Analysis for Damage-Based Failure Model of Polymer Hexagonal Honeycomb Structure under the Out-of-Plane Loadings. Polymers, 2021, 13, 52.	2.0	26
41	Thermophysiological comfort of zinc oxide nanoparticles coated woven fabrics. Scientific Reports, 2020, 10, 21080.	1.6	23
42	Moisture Absorption Effects on Mode II Delamination of Carbon/Epoxy Composites. Polymers, 2020, 12, 2162.	2.0	21
43	Freeze-thaw resistance of epoxy/concrete interface evaluated by a novel wedge splitting test. Construction and Building Materials, 2019, 210, 434-441.	3.2	20
44	Fabrication of High-Quality Polymer Composite Frame by a New Method of Fiber Winding Process. Polymers, 2020, 12, 1037.	2.0	20
45	Mode I fracture evaluation of CFRP-to-concrete interfaces subject to aggressive environments agents: Freeze-thaw cycles, acid and alkaline solution. Composites Part B: Engineering, 2019, 168, 581-588.	5.9	19
46	Thermophysiological comfort of sonochemically synthesized nano TiO ₂ coated woven fabrics. Scientific Reports, 2020, 10, 17204.	1.6	19
47	Factors Affecting Acoustic Properties of Natural-Fiber-Based Materials and Composites: A Review. Textiles, 2021, 1, 55-85.	1.8	19
48	Effect of Hygrothermal Aging and Surface Treatment on the Dynamic Mechanical Behavior of Flax Fiber Reinforced Composites. Materials, 2019, 12, 2376.	1.3	18
49	A Comparative Study of the Data-Driven Stochastic Subspace Methods for Health Monitoring of Structures: A Bridge Case Study. Applied Sciences (Switzerland), 2020, 10, 3132.	1.3	18
50	Mathematical models describing the relaxation behaviour of Jatropha curcas L. bulk seeds under axial compression. Biosystems Engineering, 2015, 131, 77-83.	1.9	17
51	Analytical Approach to Study Sensing Properties of Graphene Based Gas Sensor. Sensors, 2020, 20, 1506.	2.1	17
52	Role B4C Addition on Microstructure, Mechanical, and Wear Characteristics of Al-20%Mg2Si Hybrid Metal Matrix Composite. Applied Sciences (Switzerland), 2021, 11, 3047.	1.3	17
53	Modeling the dynamics behavior of flax fiber reinforced composite after water aging using a modified Huet-Sayegh viscoelastic model with fractional derivatives. Construction and Building Materials, 2021, 290, 122879.	3.2	17
54	Separation of ctDNA by superparamagnetic bead particles in microfluidic platform for early cancer detection. Journal of Advanced Research, 2021, 33, 109-116.	4.4	17

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55	Experimental and Numerical Analysis of Fatigue Life of Aluminum Al 2024-T351 at Elevated Temperature. <i>Metals</i> , 2020, 10, 1581.	1.0	16
56	Linear-Nonlinear Stiffness Responses of Carbon Fiber-Reinforced Polymer Composite Materials and Structures: A Numerical Study. <i>Polymers</i> , 2021, 13, 344.	2.0	16
57	Neural network-crow search model for the prediction of functional properties of nano TiO ₂ coated cotton composites. <i>Scientific Reports</i> , 2021, 11, 13649.	1.6	16
58	Finite Element Analysis of the Ballistic Impact on Auxetic Sandwich Composite Human Body Armor. <i>Materials</i> , 2022, 15, 2064.	1.3	16
59	Finite element method model of the mechanical behaviour of <i>Jatropha curcas</i> L. bulk seeds under compression loading: Study and 2D modelling of the damage to seeds. <i>Biosystems Engineering</i> , 2014, 127, 50-66.	1.9	15
60	Isolation and Characterization of a Novel Bacterium from the Marine Environment for Trichloroacetic Acid Bioremediation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4593.	1.3	15
61	Estimation of Critical Dimensions for the Crack and Pitting Corrosion Defects in the Oil Storage Tank Using Finite Element Method and Taguchi Approach. <i>Metals</i> , 2020, 10, 1372.	1.0	14
62	Prediction of Methylene Blue Removal by Nano TiO ₂ Using Deep Neural Network. <i>Polymers</i> , 2021, 13, 3104.	2.0	14
63	Effect of Electrospun Nanofiber Deposition on Thermo-physiology of Functional Clothing. <i>Fibers and Polymers</i> , 2019, 20, 991-1002.	1.1	13
64	Thermal Performance of Alginate Concrete Reinforced with Basalt Fiber. <i>Crystals</i> , 2020, 10, 779.	1.0	13
65	Enhanced Mechanical Properties of Eucalyptus-Basalt-Based Hybrid-Reinforced Cement Composites. <i>Polymers</i> , 2020, 12, 2837.	2.0	13
66	Lignocellulosic Natural Fiber Reinforced Bisphenol F Epoxy Based Bio-composites: Characterization of Mechanical Electrical Performance. <i>Journal of Natural Fibers</i> , 2020, , 1-16.	1.7	13
67	On the Performance of Small-Scale Horizontal Axis Tidal Current Turbines. Part 1: One Single Turbine. <i>Sustainability</i> , 2020, 12, 5985.	1.6	13
68	Woven Textiles Coated with Zinc Oxide Nanoparticles and Their Thermophysiological Comfort Properties. <i>Journal of Natural Fibers</i> , 2022, 19, 4718-4730.	1.7	13
69	Effect of nanoadditives on the novel leather fiber/recycled poly(ethylene-vinyl-acetate) polymer composites for multifunctional applications: Fabrication, characterizations, and multiobjective optimization using central composite design. <i>Nanotechnology Reviews</i> , 2022, 11, 2366-2432.	2.6	13
70	Comfort evaluation of ZnO coated fabrics by artificial neural network assisted with golden eagle optimizer model. <i>Scientific Reports</i> , 2022, 12, 6350.	1.6	12
71	Numerical and Experimental Research of Design Optimization of Baths for the Production of Nanofibers by the Electrospinning. <i>Applied Mechanics and Materials</i> , 0, 486, 157-162.	0.2	11
72	Theoretical and Experimental Studies on Thermal Properties of Polyester Nonwoven Fibrous Material. <i>Materials</i> , 2020, 13, 2882.	1.3	11

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73	Electromagnetic Interference Shielding of Metal Coated Ultrathin Nonwoven Fabrics and Their Factorial Design. <i>Polymers</i> , 2021, 13, 484.	2.0	11
74	Thermal Delamination Modelling and Evaluation of Aluminium-Glass Fibre-Reinforced Polymer Hybrid. <i>Polymers</i> , 2021, 13, 492.	2.0	11
75	A comparison of fabric structures for carbon fiber reinforced composite: Laminated and orthogonal woven structures. <i>Polymer Composites</i> , 2021, 42, 5300-5309.	2.3	11
76	Parallel Hybrid Electric Vehicle Modelling and Model Predictive Control. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10668.	1.3	11
77	High Performance Flexible Strain Sensors Based On Silver Nanowires/thermoplastic Polyurethane Composites for Wearable Devices. <i>Applied Composite Materials</i> , 2022, 29, 1621-1636.	1.3	11
78	An experimental evaluation of convective heat transfer in multi-layered fibrous materials composed by different middle layer structures. <i>Journal of Industrial Textiles</i> , 2021, 51, 362-379.	1.1	10
79	Numerical investigation for the fatigue performance of reinforced concrete beams strengthened with external prestressed HFRP sheet. <i>Construction and Building Materials</i> , 2020, 237, 117601.	3.2	10
80	Prediction of functional properties of nano TiO_2 coated cotton composites by artificial neural network. <i>Scientific Reports</i> , 2021, 11, 12235.	1.6	10
81	Determination of the permeability coefficient and airflow resistivity of nonwoven materials. <i>Textile Reseach Journal</i> , 2022, 92, 126-142.	1.1	10
82	Characterization on Polyester Fibrous Panels and Their Homogeneity Assessment. <i>Polymers</i> , 2020, 12, 2098.	2.0	9
83	Porous Film Coating Enabled by Polyvinyl Pyrrolidone (PVP) for Enhanced Air Permeability of Fabrics: The Effect of PVP Molecule Weight and Dosage. <i>Polymers</i> , 2020, 12, 2961.	2.0	9
84	Analytical Prediction of Highly Sensitive CNT-FET-Based Sensor Performance for Detection of Gas Molecules. <i>IEEE Access</i> , 2020, 8, 12655-12661.	2.6	9
85	Ultra-Fast Growth of ZnO Nanorods on Cotton Fabrics and Their Self-Cleaning and Physiological Comfort Properties. <i>Coatings</i> , 2021, 11, 1309.	1.2	9
86	Simple determination of key structural parameters for fibrous materials enabled by Ergun-Type and Kozeny-type equations. <i>Polymer Testing</i> , 2022, 108, 107514.	2.3	9
87	3D Woven Textile Structural Polymer Composites: Effect of Resin Processing Parameters on Mechanical Performance. <i>Polymers</i> , 2022, 14, 1134.	2.0	9
88	Testing fireproof materials in a combustion chamber. <i>EPJ Web of Conferences</i> , 2017, 143, 02058.	0.1	8
89	Temperature Impact on Engineered Cementitious Composite Containing Basalt Fibers. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6848.	1.3	8
90	Construction of Novel Electro-Fenton Systems by Magnetically Decorating Zero-Valent Iron onto $\text{RuO}_2\text{-IrO}_2/\text{Ti}$ Electrode for Highly Efficient Pharmaceutical Wastewater Treatment. <i>Water (Switzerland)</i> , 2022, 14, 1044.	1.2	8

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91	Analysis and Measurement of the Charge Intensity of the Selected Electrospinning Electrodes. Applied Mechanics and Materials, 0, 486, 217-222.	0.2	7
92	Cooperation of Virtual Reality and Real Objects with HoloLens. Advances in Intelligent Systems and Computing, 2020, , 94-106.	0.5	7
93	Failure of Glass Fibre-Reinforced Polypropylene Metal Laminate Subjected to Close-Range Explosion. Polymers, 2020, 12, 2139.	2.0	7
94	Influence of inlay yarn type and stacking sequence on mechanical performance of knitted uni-directional thermoplastic composite prepregs. Journal of Industrial Textiles, 2022, 51, 4973S-5008S.	1.1	7
95	Effect of Stitch Characteristics on Flammability and Thermo-Physiological Comfort Properties of Knitted Fabrics. Fibers and Polymers, 2020, 21, 2652-2663.	1.1	7
96	Use of an Artificial Neural Network for Tensile Strength Prediction of Nano Titanium Dioxide Coated Cotton. Polymers, 2022, 14, 937.	2.0	7
97	Surface wettability of vertical harps for fog collection. Surfaces and Interfaces, 2022, 30, 101842.	1.5	7
98	Relaxation behaviour of Jatropha curcas L. bulk seeds under compression loading. Biosystems Engineering, 2014, 125, 17-23.	1.9	6
99	Investigation of the brittle fracture of the locomotive draw hook. Engineering Failure Analysis, 2019, 105, 305-312.	1.8	6
100	Mechanical Characterization of Heterogeneous Polycrystalline Rocks Using Nanoindentation Method in Combination with Generalized Means Method. Journal of Mechanics, 2020, 36, 813-823.	0.7	6
101	Graphene Nanoparticle-Based, Nitrate Ion Sensor Characteristics. Nanomaterials, 2021, 11, 150.	1.9	6
102	Dynamic response of aluminium sheet 2024-T3 subjected to close-range shock wave: experimental and numerical studies. Journal of Materials Research and Technology, 2021, 10, 349-362.	2.6	6
103	Fabrication of High-Quality Straight-Line Polymer Composite Frame with Different Radius Parts Using Fiber Winding Process. Polymers, 2021, 13, 497.	2.0	6
104	Prediction of internal geometry and tensile behavior of 3D woven solid structures by mathematical coding. Journal of Industrial Textiles, 2022, 51, 7034S-7055S.	1.1	6
105	Displacement Rate Effects on the Mode II Shear Delamination Behavior of Carbon Fiber/Epoxy Composites. Polymers, 2021, 13, 1881.	2.0	6
106	Numerical Modelling for Optimization of Fibres Winding Process of Manufacturing Technology for the Non-Circular Aerospace Frames. Manufacturing Technology, 2018, 18, 90-98.	0.2	6
107	Numerical Model Description of Fibres Winding Process for New Technology of Winding Fibres on the Frames. Manufacturing Technology, 2016, 16, 778-785.	0.2	6
108	FEM Study of the Strain Kinematics in the 3D Nanofibrous Structure Prepared by the Electrospinning Process. Applied Mathematics, 2013, 04, 80-90.	0.1	6

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109	Experimental and Numerical Analysis of Crack Propagation in Light Composite Materials under Dynamic Fracturing. Communications - Scientific Letters of the University of Zilina, 2014, 16, 82-89.	0.3	6
110	Experimental Analysis and Numerical Modelling of Interphase Interfaces of New Environmental Low-Energy Composites. Applied Mechanics and Materials, 0, 732, 95-98.	0.2	5
111	Improving Electromagnetic Shielding Ability of Plaster-Based Composites by Addition of Carbon Fibers. Advances in Materials Science and Engineering, 2018, 2018, 1-14.	1.0	5
112	Compression resilience and impact resistance of fiber-reinforced sandwich composites. Polymers for Advanced Technologies, 2019, 30, 3073-3082.	1.6	5
113	Parametric Study of Flexural Strengthening of Concrete Beams with Prestressed Hybrid Reinforced Polymer. Materials, 2019, 12, 3790.	1.3	5
114	Experimental study on fracture properties of CFRP-to-concrete interface subject to salt water. Composite Structures, 2021, 258, 113179.	3.1	5
115	An Extended Thickness-Dependent Moisture Absorption Model for Unidirectional Carbon/Epoxy Composites. Polymers, 2021, 13, 440.	2.0	5
116	INCREASE OF THE EFFICIENCY OF THE PRODUCTION LINES FOR THE SPINNING OF INORGANIC NANOFIBERS BY THE ELECTROSTATIC FIELD INTENSITY OPTIMIZATION. MM Science Journal, 2012, 2012, 382-385.	0.2	5
117	Displacement rate effects on mixed-mode I/II delamination of laminated carbon/epoxy composites. Polymer Testing, 2022, 108, 107512.	2.3	5
118	Complex Approach to Conceptual Design of Machine Mechanically Extracting Oil from <i>Jatropha curcas</i> L. Seeds for Biomass-Based Fuel Production. BioMed Research International, 2016, 2016, 1-12.	0.9	4
119	FEM Analysis of Mechanical and Structural Properties of Long Fiber-Reinforced Composites. , 0, , .		4
120	Investigation on the Curvature Correction Factor of Extension Spring. Materials, 2020, 13, 4199.	1.3	4
121	Optimum Design of Sunken Reinforced Enclosures under Buckling Condition. Applied Sciences (Switzerland), 2020, 10, 8449.	1.3	4
122	Numerical Prediction of Residual Stresses Distribution in Thin-Walled Press-Braked Stainless Steel Sections. Materials, 2020, 13, 5378.	1.3	4
123	An Analytical Conductance Model for Gas Detection Based on a Zigzag Carbon Nanotube Sensor. Sensors, 2020, 20, 357.	2.1	4
124	Axial and Radial Compression Behavior of Composite Rocket Launcher Developed by Robotized Filament Winding: Simulation and Experimental Validation. Polymers, 2021, 13, 517.	2.0	4
125	Experimental Study on the Effect of Basalt Fiber and Sodium Alginate in Polymer Concrete Exposed to Elevated Temperature. Processes, 2021, 9, 510.	1.3	4
126	Irregular Winding of Pre-preg Fibres Aimed at the Local Improvement of Flexural Properties. Tekstilec, 2017, 60, 310-316.	0.3	4

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127	Automatic Clutch Engagement Control for Parallel Hybrid Electric Vehicle. <i>Energies</i> , 2021, 14, 7256.	1.6	4
128	Mathematical Modelling of Fibre Winding Process for Composite Frames. <i>Communications - Scientific Letters of the University of Zilina</i> , 2016, 18, 103-111.	0.3	4
129	Testing of Tensile Properties of Carbon Prepreg Composite Rods with Adding of a Non-Composite Part. <i>Defect and Diffusion Forum</i> , 2016, 368, 130-133.	0.4	3
130	Numerical simulation of flood barriers. <i>EPJ Web of Conferences</i> , 2017, 143, 02115.	0.1	3
131	The Effect of Lateral Load Type on Shear Lag of Concrete Tubular Structures with Different Plan Geometries. <i>Crystals</i> , 2020, 10, 897.	1.0	3
132	Application of Acoustical Method to Characterize Nonwoven Material. <i>Fibers and Polymers</i> , 2021, 22, 831-840.	1.1	3
133	Investment opportunities for family businesses in the field of use of biogas plants. <i>E A M: Ekonomie A Management</i> , 2016, 19, 19-32.	0.4	3
134	Feasible Trajectories Generation for Autonomous Driving Vehicles. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11143.	1.3	3
135	Mechanical properties of carbon fiber composites for applications in space. , 2015, , .		2
136	Analysis of the Tailgate Frame Composite Tube Mechanical Properties. <i>Applied Mechanics and Materials</i> , 0, 732, 235-238.	0.2	2
137	Numerical model describing optimization of fibres winding process on open and closed frame. <i>Journal of Physics: Conference Series</i> , 2016, 738, 012094.	0.3	2
138	Possibilities of the Additional Damping of Unidirectional Fiber Composites by Implementation of Viscoelastic Neoprene and Rubber Layers. <i>Shock and Vibration</i> , 2017, 2017, 1-15.	0.3	2
139	Improvement of the Acoustic Attenuation of Plaster Composites by the Addition of Short-Fibre Reinforcement. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-15.	1.0	2
140	Selected Application of Linear Composites Containing Side Emitting Optical Fibres. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 553, 012002.	0.3	2
141	Carbon-Based Band Gap Engineering in the h-BN Analytical Modeling. <i>Materials</i> , 2020, 13, 1026.	1.3	2
142	Combined Use of Modal Analysis and Machine Learning for Materials Classification. <i>Materials</i> , 2021, 14, 4270.	1.3	2
143	Monolayer Twisted Graphene-Based Schottky Transistor. <i>Materials</i> , 2021, 14, 4109.	1.3	2
144	Natural Cellulosic Fiber Reinforced Bio-Epoxy Based Composites and Their Mechanical Properties. <i>Lecture Notes in Computer Science</i> , 2021, , 80-96.	1.0	2

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145	Increasing of Precision Technology of Glass Sorting Based on Very Fast Reconfigurable Image Processing. Manufacturing Technology, 2019, 19, 431-438.	0.2	2
146	Acoustical Evaluation and Comparative Study of Maple Leaves and Coir and Polyester Fibers. Journal of Natural Fibers, 2022, 19, 10813-10818.	1.7	2
147	Hybrid Prepreg Tapes for Composite Manufacturing: A Case Study. Materials, 2022, 15, 619.	1.3	2
148	The effects of surface treatment on creep and dynamic mechanical behavior of flax fiber reinforced composites under hygrothermal aging conditions. , 2022, , 203-242.		2
149	Analysis of Changes in the Surface Quality of a UD Prepregs Composite due to Mechanical Loading. Materials Science Forum, 0, 818, 109-112.	0.3	1
150	Experimental and Numerical Analysis of Vibration of the Test Stand. Applied Mechanics and Materials, 0, 732, 261-266.	0.2	1
151	FEM Modelling and Experimental Analysis of Mechanical Properties of Artificial Blood Vessel. Applied Mechanics and Materials, 0, 732, 165-168.	0.2	1
152	Optimization of the heat output of wall convectors with using an unconventional slumped glass cover. EPJ Web of Conferences, 2016, 114, 02061.	0.1	1
153	Crash Test of Carbon Composite. Applied Mechanics and Materials, 0, 821, 385-391.	0.2	1
154	Composite Production and Industrial Robot Trajectory Calculation. Mechanisms and Machine Science, 2017, , 271-276.	0.3	1
155	Application of Mechanics to Plant Seeds as a Granular or Particulate Material. , 0, , .		1
156	Tensile Properties of Glass Roving and Hybrid Tapes. IOP Conference Series: Materials Science and Engineering, 2019, 553, 012055.	0.3	1
157	Experimental and Modelling Studies on Thermal Insulation and Sound Absorption Properties of Cross-Laid Nonwoven Fabrics. Autex Research Journal, 2021, .	0.6	1
158	Innovative IoT Sensing and Communication Unit in Agriculture. European Journal of Electrical Engineering, 2019, 21, 273-278.	1.1	1
159	Thorax measurement and analysis using electrical impedance tomography. Vibroengineering PROCEDIA, 2019, 26, 68-73.	0.3	1
160	Sound Absorption Properties and Accuracy of Prediction Models on Natural Fiber Based Nonwoven Materials. Journal of Natural Fibers, 2022, 19, 10588-10600.	1.7	1
161	Reduce of Head Injuries During Whiplash Using TRIZ Methodology. Lecture Notes in Mechanical Engineering, 2014, , 471-476.	0.3	0
162	X-Ray Microtomograph Detection of Internal Defects for a UD Prepreg Composite. Materials Science Forum, 0, 818, 295-298.	0.3	0

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163	Study and verification of the superposition method used for determining the pressure losses of the heat exchangers. EPJ Web of Conferences, 2015, 92, 02064.	0.1	0
164	Numerical Modelling and Experimental Measurement of Lifting Platform Construction for Car Relocation. Applied Mechanics and Materials, 0, 732, 219-222.	0.2	0
165	Experimental Analysis and Optimization of Vibrations of a Clamping Device by Using Hyperelastic Elements. Applied Mechanics and Materials, 2016, 827, 99-104.	0.2	0
166	Development of fire shutters based on numerical optimizations. EPJ Web of Conferences, 2018, 180, 02076.	0.1	0
167	A Novel Method for Non-Invasive Imaging for Medicine and Material Testing. Materials Science Forum, 0, 952, 285-294.	0.3	0
168	Carbon Nanoparticle-Based Electro-Thermal Building Block. Applied Sciences (Switzerland), 2020, 10, 5117.	1.3	0
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