

Maik Gude

List of Publications by Year in descending order

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206
papers

2,320
citations

279778

23
h-index

345203

36
g-index

230
all docs

230
docs citations

230
times ranked

1626
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of multistable composites for application in adaptive structures. <i>Composites Science and Technology</i> , 2002, 62, 2201-2207.	7.8	136
2	Experimental investigation of the effect of defects in Automated Fibre Placement produced composite laminates. <i>Composite Structures</i> , 2018, 201, 1004-1017.	5.8	75
3	The effect of temperature on mechanical properties and failure behaviour of hybrid yarn textile-reinforced thermoplastics. <i>Materials & Design</i> , 2011, 32, 4278-4288.	5.1	59
4	A phenomenologically based damage model for textile composites with crimped reinforcement. <i>Composites Science and Technology</i> , 2010, 70, 81-87.	7.8	54
5	Piezoelectrically driven morphing structures based on bistable unsymmetric laminates. <i>Composite Structures</i> , 2011, 93, 377-382.	5.8	54
6	Hybrid 3D-textile reinforced composites with tailored property profiles for crash and impact applications. <i>Composites Science and Technology</i> , 2009, 69, 1422-1426.	7.8	53
7	A quantitative comparison of the capabilities of in situ computed tomography and conventional computed tomography for damage analysis of composites. <i>Composites Science and Technology</i> , 2015, 110, 62-68.	7.8	53
8	Analysis and optimisation of multistable composites under residual stresses. <i>Composite Structures</i> , 2002, 55, 319-327.	5.8	51
9	Actor-initiated snap-through of unsymmetric composites with multiple deformation states. <i>Journal of Materials Processing Technology</i> , 2006, 175, 225-230.	6.3	50
10	A test device for damage characterisation of composites based on in situ computed tomography. <i>Composites Science and Technology</i> , 2012, 72, 1361-1367.	7.8	46
11	Evaluation of the mechanical and morphological properties of long fibre reinforced polyurethane rigid foams. <i>Polymer Testing</i> , 2016, 49, 121-127.	4.8	44
12	Development of novel form-locked joints for textile reinforced thermoplastics and metallic components. <i>Journal of Materials Processing Technology</i> , 2015, 216, 140-145.	6.3	37
13	Damage evolution of novel 3D textile-reinforced composites under fatigue loading conditions. <i>Composites Science and Technology</i> , 2010, 70, 186-192.	7.8	34
14	Novel MRE/CFRP sandwich structures for adaptive vibration control. <i>Smart Materials and Structures</i> , 2016, 25, 035025.	3.5	34
15	Design of novel morphing structures based on bistable composites with piezoceramic actuators. <i>Mechanics of Composite Materials</i> , 2006, 42, 339-346.	1.4	33
16	A phenomenologically based damage model for 2D and 3D-textile composites with non-crimp reinforcement. <i>Materials & Design</i> , 2011, 32, 2532-2544.	5.1	32
17	Modelling of strain rate dependent deformation behaviour of polypropylene. <i>Polymer Testing</i> , 2011, 30, 183-187.	4.8	32
18	Voids and their effect on the strain rate dependent material properties and fatigue behaviour of non-crimp fabric composites materials. <i>Composites Part B: Engineering</i> , 2015, 83, 346-351.	12.0	28

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19	Modelling of the strain rate dependent deformation behaviour of rigid polyurethane foams. <i>Polymer Testing</i> , 2016, 54, 145-149.	4.8	28
20	Determination of strain rate dependent through-thickness tensile properties of textile reinforced thermoplastic composites using L-shaped beam specimens. <i>Composites Science and Technology</i> , 2011, 71, 1110-1116.	7.8	25
21	Fatigue failure criteria and degradation rules for composites under multiaxial loadings. <i>Mechanics of Composite Materials</i> , 2006, 42, 443-450.	1.4	24
22	Strain rate dependent low velocity impact response of layerwise 3D-reinforced composite structures. <i>International Journal of Impact Engineering</i> , 2011, 38, 358-368.	5.0	23
23	Evaluation of Damage to Carbon-fibre Composites Induced by Self-pierce Riveting. <i>Procedia CIRP</i> , 2014, 18, 186-191.	1.9	23
24	Probabilistic failure simulation of glass fibre reinforced weft-knitted thermoplastics. <i>Composites Science and Technology</i> , 2014, 90, 25-31.	7.8	23
25	Modified V-notched rail shear test fixture for shear characterisation of textile-reinforced composite materials. <i>Polymer Testing</i> , 2015, 43, 147-153.	4.8	23
26	Numerical modelling and simulation of fatigue damage in carbon fibre reinforced plastics at different stress ratios. <i>Thin-Walled Structures</i> , 2019, 139, 219-231.	5.3	22
27	Monitoring of multiaxial fatigue damage evolution in impacted composite tubes using non-destructive evaluation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 537-546.	7.6	21
28	Multi-scale modelling approach to homogenise the mechanical properties of polymeric closed-cell bead foams. <i>International Journal of Engineering Science</i> , 2019, 145, 103168.	5.0	21
29	Joining of Thermoplastic Composites with Metals Using Resistance Element Welding. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7251.	2.5	21
30	Development of novel piezoceramic modules for adaptive thermoplastic composite structures capable for series production. <i>Sensors and Actuators A: Physical</i> , 2009, 156, 22-27.	4.1	20
31	Numerical fatigue analysis of CFRP components. <i>Composite Structures</i> , 2017, 168, 392-401.	5.8	20
32	Experimental comparison of a macroscopic draping simulation for dry non-crimp fabric preforming on a complex geometry by means of optical measurement. <i>Journal of Composite Materials</i> , 2017, 51, 2363-2375.	2.4	19
33	Influence of Reversed Fatigue Loading on Damage Evolution of Cross-Ply Carbon Fibre Composites. <i>Materials</i> , 2019, 12, 1153.	2.9	19
34	Measuring and understanding cure-dependent viscoelastic properties of epoxy resin: A review. <i>Polymer Testing</i> , 2022, 114, 107701.	4.8	19
35	Design and testing of novel piezoceramic modules for adaptive thermoplastic composite structures. <i>Smart Materials and Structures</i> , 2009, 18, 045012.	3.5	18
36	Novel Hybrid Yarn Textile Thermoplastic Composites for Functional Integrating Multi-Material Lightweight Design. <i>Advanced Engineering Materials</i> , 2016, 18, 361-368.	3.5	18

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37	The analysis of flow behavior of Ti-6Al-2Sn-4Zr-6Mo alloy based on the processing maps. International Journal of Material Forming, 2021, 14, 523-532.	2.0	18
38	Embedding versus adhesive bonding of adapted piezoceramic modules for function-integrative thermoplastic composite structures. Composites Science and Technology, 2011, 71, 1132-1137.	7.8	17
39	Influence of processing parameters on the properties of carbon fibres – an overview. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 1044-1057.	0.9	17
40	Clinching of Thermoplastic Composites and Metals – A Comparison of Three Novel Joining Technologies. Materials, 2021, 14, 2286.	2.9	17
41	Development of a rivet geometry for solid self-piercing riveting of thermally loaded CFRP-metal joints in automotive construction. Composite Structures, 2022, 291, 115583.	5.8	17
42	Influence of interface waviness on delamination characteristics and correlation of through-thickness tensile failure with mode I energy release rates in carbon fibre textile composites. Materials & Design, 2013, 50, 839-845.	5.1	16
43	Experimental and Numerical Study on the Axial Crushing Behavior of Textile-Reinforced Thermoplastic Composite Tubes. Advanced Engineering Materials, 2016, 18, 437-443.	3.5	16
44	A method to control delaminations in composites for adjusted energy dissipation characteristics. Materials and Design, 2017, 123, 103-111.	7.0	16
45	Experimental and Numerical Determination of the Local Fiber Volume Content of Unidirectional Non-Crimp Fabrics with Forming Effects. Journal of Composites Science, 2019, 3, 19.	3.0	16
46	Biomimetic fibre-reinforced composites inspired by branched plant stems. , 2010, , .		16
47	Manufacture and multiaxial test of composite tube specimens with braided glass fiber reinforcement. Journal of Materials Processing Technology, 2005, 162-163, 65-70.	6.3	15
48	Multi-sensor system for in situ shape monitoring and damage identification of high-speed composite rotors. Mechanical Systems and Signal Processing, 2016, 76-77, 187-200.	8.0	15
49	Damage mechanisms of tailored few-layer graphene modified CFRP cross-ply laminates. Composites Part A: Applied Science and Manufacturing, 2019, 117, 332-344.	7.6	15
50	Advancing Towards Polyurethane-Based Magnetorheological Composites. Advanced Engineering Materials, 2014, 16, 1270-1275.	3.5	14
51	Forming of carbon fiber reinforced thermoplastic composite tubes – Experimental and numerical approaches. CIRP Journal of Manufacturing Science and Technology, 2017, 18, 60-64.	4.5	14
52	Simulation-aided development of a robust thermoclinching joining process for hybrid structures with textile reinforced thermoplastic composites and metallic components. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 1027-1038.	0.9	14
53	Evaluation and Modeling of the Fatigue Damage Behavior of Polymer Composites at Reversed Cyclic Loading. Materials, 2019, 12, 1727.	2.9	14
54	Rate dependent non-linear mechanical behaviour of continuous fibre-reinforced thermoplastic composites – Experimental characterisation and viscoelastic-plastic damage modelling. Materials and Design, 2020, 193, 108827.	7.0	14

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55	Adjustment of Residual Stresses in Unsymmetric Fiber-Reinforced Composites Using Genetic Algorithms. <i>Mechanics of Composite Materials</i> , 2001, 37, 71-78.	1.4	13
56	Manufacture studies and impact behaviour of light metal matrix composites reinforced by steel wires. <i>Archives of Civil and Mechanical Engineering</i> , 2012, 12, 265-272.	3.8	13
57	Design and automated manufacturing of profiled composite driveshafts. <i>Science and Engineering of Composite Materials</i> , 2015, 22, 187-197.	1.4	13
58	Guided bending experiment for the characterisation of CFRP in VHCF-loading. <i>Polymer Testing</i> , 2016, 54, 12-18.	4.8	13
59	Biomimetic optimisation of branched fibre-reinforced composites in engineering by detailed analyses of biological concept generators. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 055005.	2.9	13
60	Experimental characterisation of fatigue damage in single Z-pins. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 91, 461-471.	7.6	13
61	Influence of Gradual Damage on the Structural Dynamic Behaviour of Composite Rotors: Simulation Assessment. <i>Materials</i> , 2018, 11, 2453.	2.9	13
62	Functional Properties of Poly(Trimethylene Terephthalate)-Block-Poly(Caprolactone) Based Nanocomposites Containing Graphene Oxide (GO) and Reduced Graphene Oxide (rGO). <i>Nanomaterials</i> , 2019, 9, 1459.	4.1	13
63	Characterization and modeling cure- and pressure-dependent thermo-mechanical and shrinkage behavior of fast curing epoxy resins. <i>Polymer Testing</i> , 2022, 108, 107498.	4.8	13
64	Novel poling method for piezoelectric PZT composites and transfer to series production. <i>Sensors and Actuators A: Physical</i> , 2018, 270, 231-239.	4.1	12
65	Influence of Gradual Damage on the Structural Dynamic Behaviour of Composite Rotors: Experimental Investigations. <i>Materials</i> , 2018, 11, 2421.	2.9	12
66	Influence of component design on features and properties in thermoplastic overmoulded composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 132, 105823.	7.6	12
67	Metal-Ceramic Layered Materials and Composites Manufactured Using Powder Techniques. <i>Advanced Engineering Materials</i> , 2014, 16, 1293-1302.	3.5	11
68	Experimental and numerical studies on the braiding of carbon fibres over structured end-fittings for the design and manufacture of high performance hybrid shafts. <i>Production Engineering</i> , 2018, 12, 215-228.	2.3	11
69	Phenomena of forming and failure in joining hybrid structures – Experimental and numerical studies of clinching thermoplastic composites and metal. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	11
70	Experimental study of Z-pin fatigue; understanding of mode I and II coupon behaviour. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 127, 105615.	7.6	11
71	In Situ Computed Tomography Analysis of a Single-Lap Shear Test with Clinch Points. <i>Materials</i> , 2021, 14, 1859.	2.9	11
72	Cellular Fiber-Reinforced Polyurethane Composites with Sensory Properties. <i>Advanced Engineering Materials</i> , 2014, 16, 272-275.	3.5	10

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73	Studies on the polarisation behaviour of novel piezoelectric sensor modules. Sensors and Actuators A: Physical, 2014, 218, 162-166.	4.1	10
74	Model assessment of a composite mock-up bladed rotor based on its vibration response and radial expansion. Composite Structures, 2015, 124, 394-401.	5.8	10
75	Overmoulding of consolidated fibre-reinforced thermoplastics - increasing the bonding strength by physical surface pre-treatments. Procedia CIRP, 2019, 85, 212-217.	1.9	10
76	Process-integrated embedding of metal inserts in continuous fibre reinforced thermoplastics. Procedia CIRP, 2019, 85, 84-89.	1.9	10
77	Experimental and Numerical Impact Analysis of Automotive Bumper Brackets Made of 2D Triaxially Braided CFRP Composites. Materials, 2020, 13, 3554.	2.9	10
78	Additive Manufacturing-Based In Situ Consolidation of Continuous Carbon Fibre-Reinforced Polycarbonate. Materials, 2021, 14, 2450.	2.9	10
79	A Mixed Numerical-Experimental Method to Characterize Metal-Polymer Interfaces for Crash Applications. Metals, 2021, 11, 818.	2.3	10
80	Compaction behaviour of continuous fibre-reinforced thermoplastic composites under rapid processing conditions. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106549.	7.6	10
81	Sensitivity analysis for the process integrated online polarization of piezoceramic modules in thermoplastic composites. Smart Materials and Structures, 2010, 19, 105022.	3.5	9
82	Multi-scale structuring for thermoplastic-metal contour joints of hollow profiles. Production Engineering, 2018, 12, 229-238.	2.3	9
83	Evaluation of the pore morphology formation of the Freeze Foaming process by in situ computed tomography. Journal of the European Ceramic Society, 2018, 38, 3369-3378.	5.7	9
84	The Impact of Draping Effects on the Stiffness and Failure Behavior of Unidirectional Non-Crimp Fabric Fiber Reinforced Composites. Materials, 2020, 13, 2959.	2.9	9
85	Structural Damage Identification of Composite Rotors Based on Fully Connected Neural Networks and Convolutional Neural Networks. Sensors, 2021, 21, 2005.	3.8	9
86	Top-hat crashboxes of thermoplastic fibre-metal-laminates processed in one-step thermoforming: Experimental and numerical study. Composites Part B: Engineering, 2021, 226, 109367.	12.0	9
87	Neutral lightweight engineering: a holistic approach towards sustainability driven engineering. Discover Sustainability, 2022, 3, .	2.8	9
88	Simulation of a Novel Joining Process for Fiber-Reinforced Thermoplastic Composites and Metallic Components. Mechanics of Composite Materials, 2017, 52, 733-740.	1.4	8
89	Anisotropic characterization of magnetorheological materials. Journal of Magnetism and Magnetic Materials, 2017, 431, 107-109.	2.3	8
90	Calculation method for the determination of stress concentrations in fibre-reinforced multilayered composites due to metallic interference-fit bolt. Journal of Composite Materials, 2018, 52, 2415-2429.	2.4	8

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91	Trigger geometry influencing the failure modes in steel/polymer/steel sandwich crashboxes: Experimental and numerical evaluation. <i>Composite Structures</i> , 2021, 262, 113619.	5.8	8
92	Accessing pore microstructureâ€™property relationships for Additively manufactured materials. <i>GAMM Mitteilungen</i> , 2021, 44, e202100012.	5.5	8
93	The strain-rate-dependent material and failure behaviour of 2D and 3D non-crimp glass-fibre-reinforced composites. <i>Mechanics of Composite Materials</i> , 2009, 45, 467-476.	1.4	7
94	A composite-appropriate integration method of thick functional components in fibre-reinforced plastics. <i>Smart Materials and Structures</i> , 2016, 25, 035026.	3.5	7
95	Studies on the Characterization of Novel Piezoelectric Sensor Elements, Integrated in Glass Fibre-reinforced Polyurethane Composites. <i>Procedia Engineering</i> , 2016, 168, 868-871.	1.2	7
96	Clinching in in-situ CTâ€™A numerical study on suitable tool materials. <i>Journal of Advanced Joining Processes</i> , 2020, 2, 100034.	2.7	7
97	Effect of environmentally-friendly flame retardants on fire resistance and mechanical properties of rigid polyurethane foams. <i>Polimery</i> , 2016, 61, 113-116.	0.7	7
98	From natural branchings to technical joints: branched plant stems as inspiration for biomimetic fibre-reinforced composites. <i>International Journal of Design and Nature and Ecodynamics</i> , 2013, 8, 144-153.	0.5	7
99	Design of multi-scale-structured Al-CF/PA6 contour joints. <i>International Journal of Automotive Composites</i> , 2016, 2, 299.	0.1	6
100	Experimentalâ€™numerical test strategy for evaluation of curing simulation of complexâ€™shaped composite structures. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 1072-1086.	0.9	6
101	Automated Preforming of Braided Hoses Made of Thermoplast-glass Fiber Hybrid Yarns. <i>Procedia CIRP</i> , 2017, 66, 57-61.	1.9	6
102	Influence of Laser Surface Treatment for Process-Integrated Joining of Textile Reinforced Thermoplastic Composites to Metal Sheets. <i>Key Engineering Materials</i> , 0, 742, 366-373.	0.4	6
103	Thermally and electrically conducting polycarbonate/elastomer blends combined with multiwalled carbon nanotubes. <i>Journal of Thermoplastic Composite Materials</i> , 2019, , 089270571986827.	4.2	6
104	A Method for Characterization of Geometric Deviations in Clinch Points with Computed Tomography and Transient Dynamic Analysis. <i>Key Engineering Materials</i> , 0, 883, 89-96.	0.4	6
105	Manufacture of natural fiber-reinforced polyurethane composites using the long fiber injection process. <i>Polimery</i> , 2013, 58, 473-475.	0.7	6
106	Hybride semiâ€™parametrische Modellierung der thermooxidativen Stabilisierung von PANâ€™Precursorfasern. <i>Chemie-Ingenieur-Technik</i> , 2022, 94, 889-896.	0.8	6
107	Experimental and Numerical Analysis of SMC Compression Molding in Confined Regionsâ€™A Comparison of Simulation Approaches. <i>Journal of Composites Science</i> , 2022, 6, 68.	3.0	6
108	Embedded sensing and actuating in CFRP composite structuresâ€™concept and technology demonstration for tailored embeddable sensor-actuator layers (TEmSAL). <i>Smart Materials and Structures</i> , 2022, 31, 095007.	3.5	6

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109	Production process adapted design of thermoplastic-compatible piezoceramic modules. Composites Part A: Applied Science and Manufacturing, 2014, 59, 70-77.	7.6	5
110	Integral blow moulding for cycle time reduction of CFR-TP aluminium contour joint processing. AIP Conference Proceedings, 2018, . .	0.4	5
111	Analysis of the micro-cracking behaviour of carbon fibre reinforced flywheel rotors considering residual stresses. Composite Structures, 2018, 204, 587-593.	5.8	5
112	A Sequence-Based Damage Identification Method for Composite Rotors by Applying the Kullback-Leibler Divergence, a Two-Sample Kolmogorov-Smirnov Test and a Statistical Hidden Markov Model. Entropy, 2019, 21, 690.	2.2	5
113	Methods for determination of low-cycle properties from monotonic tensile tests of 1.2344 steel applied for hot forging dies. International Journal of Advanced Manufacturing Technology, 2019, 102, 3357-3367.	3.0	5
114	Aspects of reproducibility and stability for partial cure of epoxy matrix resin. Journal of Applied Polymer Science, 2020, 137, 48342.	2.6	5
115	Forming Analysis of Internal Plies of Multi-Layer Unidirectional Textile Preforms using Projectional Radiography. Procedia Manufacturing, 2020, 47, 17-23.	1.9	5
116	Investigation of the Deformation Behaviour and Resulting Ply Thicknesses of Multilayered Fibre-Metal Laminates. Journal of Composites Science, 2021, 5, 176.	3.0	5
117	Influence of Adhesion Properties on the Crash Behavior of Steel/Polymer/Steel Sandwich Crashboxes: An Experimental Study. Metals, 2021, 11, 1400.	2.3	5
118	Fatigue Testing of Carbon Fibre-reinforced Polymers under VHCF Loading [*] . Materialpruefung/Materials Testing, 2012, 54, 756-761.	2.2	5
119	Delamination Behaviour of Embedded Polymeric Sensor and Actuator Carrier Layers in Epoxy Based CFRP Laminates—A Study of Energy Release Rates. Polymers, 2021, 13, 3926.	4.5	5
120	Numerical Investigation of the Orientability of Single Reinforcement Fibers in Polymer Matrices. Polymers, 2022, 14, 534.	4.5	5
121	Characterisation of CF/AL-MMC Manufactured by Means of Gas Pressure Infiltration. Materials Science Forum, 0, 690, 116-120.	0.3	4
122	Process-Integrated Manufacturing and Embedding of Novel Piezoelectric Sensor Modules into Glass Fibre-Reinforced Polyurethane Composite Structures. Materials Science Forum, 0, 825-826, 563-570.	0.3	4
123	Textile-Reinforced Thermoplastics for Compliant Mechanisms—Application and Material Phenomena. Advanced Engineering Materials, 2016, 18, 427-436.	3.5	4
124	Intrinsic manufacture of hollow thermoplastic composite/metal structures. AIP Conference Proceedings, 2016, . .	0.4	4
125	Influence of voids and impact damage on the fatigue behaviour of large scale composites. Materialwissenschaft Und Werkstofftechnik, 2016, 47, 1058-1071.	0.9	4
126	Through-thickness compression testing of fabric reinforced composite materials: Adapted design of novel compression stamps. Polymer Testing, 2016, 56, 269-276.	4.8	4

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127	Phase-field modelling of fracture in heterogeneous materials. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800082.	0.2	4
128	Deriving Principles of the Freeze-Foaming Process by Nondestructive CT Macrostructure Analyses on Hydroxyapatite Foams. Ceramics, 2018, 1, 65-82.	2.6	4
129	Modal Identification of Output-Only Systems of Composite Discs Using Zernike Modes and MAC. Sensors, 2019, 19, 660.	3.8	4
130	Design and Testing of a Co-Rotating Vibration Excitation System. Sensors, 2019, 19, 92.	3.8	4
131	Determining the Damage and Failure Behaviour of Textile Reinforced Composites under Combined In-Plane and Out-of-Plane Loading. Materials, 2020, 13, 4772.	2.9	4
132	Thermomechanical Characterization of a Fast Curing Epoxy Resin for Simulation of Surface Waviness. Procedia Manufacturing, 2020, 47, 129-133.	1.9	4
133	Adhesion Studies during Generative Hybridization of Textile-Reinforced Thermoplastic Composites via Additive Manufacturing. Materials, 2021, 14, 3888.	2.9	4
134	Soft robotic structures by smart encapsulation of electronic devices. Procedia Manufacturing, 2020, 52, 277-282.	1.9	4
135	Effect of HNT on the Microstructure, Thermal and Mechanical Properties of Al/FACS-HNT Composites Produced by GPI. Journal of Materials Engineering and Performance, 2016, 25, 3194-3203.	2.5	3
136	Development and validation of a novel rheological test device and measurement system for determining the influence of humidity on viscosity. Polymer Testing, 2017, 62, 263-267.	4.8	3
137	Investigation of foam structure formation in the Freeze Foaming process based on in-situ computed tomography. Results in Physics, 2018, 11, 584-590.	4.1	3
138	Glass Fiber-Reinforced Polyurethane Composite Structures with Integrated Piezoelectric Sensor Elements and Corresponding Electronics. Advanced Engineering Materials, 2018, 20, 1800447.	3.5	3
139	Process chain based data capture for a flexible and reliable life cycle inventory of a glass fiber-reinforced thermoplastic lightweight structure. Procedia CIRP, 2019, 85, 32-36.	1.9	3
140	Lightweight Materials in Tomorrow's Automotive Industry. Lightweight Design Worldwide, 2019, 12, 20-23.	0.1	3
141	Characterization and Numerical Modelling of Through-Thickness Metallic-Pin-Reinforced Fibre/Thermoplastic Composites under Bending Loading. Journal of Composites Science, 2020, 4, 188.	3.0	3
142	Adhesives for increasing the bonding strength of in situ manufactured metal-composite joints. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 3256-3269.	1.9	3
143	Multiscale Modeling of SiCf/SiC Nuclear Fuel Cladding Based on FE-Simulation of Braiding Process. Frontiers in Materials, 2021, 7, .	2.4	3
144	Thermo-mechanical modeling of the temperature dependent forming behavior of thermoplastic prepregs. Engineering Reports, 2022, 4, e12373.	1.7	3

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145	Effect of saw-tooth ply drops on the mechanical performance of tapered composite laminates. Composite Structures, 2021, 272, 114197.	5.8	3
146	Impregnation studies and mechanical characterization of cellular, natural, fiber-reinforced, composite structures. Polimery, 2016, 61, 125-132.	0.7	3
147	Tailoring of Hierarchical Porous Freeze Foam Structures. Materials, 2022, 15, 836.	2.9	3
148	Computed tomography investigation of the material structure in clinch joints in aluminium fibre-reinforced thermoplastic sheets. Production Engineering, 0, , 1.	2.3	3
149	Development and implementation of an automatic integration system for fibre optic sensors in the braiding process with the objective of online-monitoring of composite structures. Proceedings of SPIE, 2014, , .	0.8	2
150	On the quantification of errors of a pre-processing effort reducing contact meshing approach. , 2015, , .		2
151	Investigation of the Foam Development Stages by Non-Destructive Testing Technology Using the Freeze Foaming Process. Materials, 2018, 11, 2478.	2.9	2
152	Experimental investigation of the curing behaviour of fibre composite structures with snap-cure polymer systems. International Journal of Structural Integrity, 2018, 9, 768-778.	3.3	2
153	Experimental Investigation of the Frequency-Dependent Performance of Thermoplastic-Compatible Piezoceramic Modules (TPM). Advanced Engineering Materials, 2018, 20, 1800568.	3.5	2
154	Experimental analysis of process induced draping effects in textile preforms. AIP Conference Proceedings, 2019, , .	0.4	2
155	Influence of Ice Accumulation on the Structural Dynamic Behaviour of Composite Rotors. Applied Sciences (Switzerland), 2020, 10, 5063.	2.5	2
156	Experimental and Numerical Studies on the Deformation of a Flexible Wire in an Injection Moulding Process. Procedia Manufacturing, 2020, 47, 940-947.	1.9	2
157	Co-curing of thermoset composites on metal structures with reduced cycle times for high-volume car applications. Materials Today: Proceedings, 2021, 34, 280-287.	1.8	2
158	Hybride Hohlstrukturen für Wellen und Streben. , 2021, , 205-264.		2
159	Spatially Resolved Experimental Modal Analysis on High-Speed Composite Rotors Using a Non-Contact, Non-Rotating Sensor. Sensors, 2021, 21, 4705.	3.8	2
160	Effect of Strain on Heating Characteristics of Silicone/CNT Composites. Materials, 2021, 14, 4528.	2.9	2
161	Design and testing of polar-orthotropic multi-layered composites under rotational load. Materials and Design, 2021, 207, 109853.	7.0	2
162	Multiscale characterization and testing of function-integrative fiber-reinforced composites. , 2016, , 155-176.		2

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163	Diffraction-grating-based insitu displacement, tilt, and strain measurements on high-speed composite rotors. <i>Applied Optics</i> , 2019, 58, 8021.	1.8	2
164	Experimental investigation of high strain-rate, large-scale crack bridging behaviour of z-pin reinforced tapered laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 155, 106825.	7.6	2
165	Experimental Analysis of Matrix Cracking in Glass Fiber Reinforced Composite Off-Axis Plies under Static and Fatigue Loading. <i>Polymers</i> , 2022, 14, 2160.	4.5	2
166	Investigation of Targeted Process Control for Adjusting the Macrostructure of Freeze Foams Using In Situ Computed Tomography. <i>Ceramics</i> , 2022, 5, 269-280.	2.6	2
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