

Daisy Nestler

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ceramic Fibers Based on SiC and SiCN Systems: Current Research, Development, and Commercial Status. <i>Advanced Engineering Materials</i> , 2014, 16, 621-636.	3.5	118
2	Particle-Reinforced Aluminum Matrix Composites (AMCs) – Selected Results of an Integrated Technology, User, and Market Analysis and Forecast. <i>Metals</i> , 2018, 8, 143.	2.3	37
3	Quasi-static and fatigue bending behavior of a continuous fiber-reinforced thermoplastic/metal laminate. <i>Composites Part B: Engineering</i> , 2019, 174, 107043.	12.0	27
4	Continuous Film Stacking and Thermoforming Process for Hybrid CFRP/aluminum Laminates. <i>Procedia CIRP</i> , 2017, 66, 107-112.	1.9	25
5	Innovative hybrid laminates of aluminium alloy foils and fibre-reinforced thermoplastic layers. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 1121-1131.	0.9	17
6	Thermoplastische Hybridlaminat mit variabler Metallkomponente. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014, 45, 531-536.	0.9	14
7	Development of wound SiCBN _x /SiN _x /SiC with near stoichiometric SiC matrix via LSI process. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1571-1580.	5.7	14
8	Effect of SiC-reinforcement and Equal-Channel Angular Pressing on Microstructure and Mechanical Properties of AA2017. <i>Advanced Engineering Materials</i> , 2012, 14, 388-393.	3.5	12
9	Development and Characterisation of Phenolic Resin Moulding Materials for the Production of New Short Fibre-Reinforced C/C-SiC Composites. <i>Materials Science Forum</i> , 2015, 825-826, 215-223.	0.3	10
10	Modification of the Thermoset Injection Moulding Process for Shaping to Increase the Fibre Length in C/C-SiC Ceramics Produced by the LSI Process. <i>Key Engineering Materials</i> , 2019, 809, 153-160.	0.4	9
11	New large-scale production method for C/C-SiC ceramics: Investigating the influence of chopped and nonwoven CF. <i>Ceramics International</i> , 2019, 45, 9596-9603.	4.8	9
12	Amino Group Bearing Organic-Inorganic Hybrid Materials for Joining Aluminum Alloys and Thermoplastic Fibre-Reinforced Parts. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601115.	3.7	8
13	New Sandwich Structures Consisting of Aluminium Foam and Thermoplastic Hybrid Laminate Top Layers. <i>Materials Science Forum</i> , 0, 825-826, 797-805.	0.3	7
14	Numerical Studies of the Viscosity of Reacting Polyurethane Foam with Experimental Validation. <i>Polymers</i> , 2020, 12, 105.	4.5	7
15	Investigation of the specific adhesion between polyurethane foams and thermoplastics to suited material selection in lightweight structures. <i>Journal of Elastomers and Plastics</i> , 2018, 50, 720-736.	1.5	6
16	Influence of Initial Fibre Length and Content Used in the Injection Moulding of CFRP on the Properties of C/C and C/C-SiC Composites. <i>Key Engineering Materials</i> , 0, 809, 171-179.	0.4	6
17	Evaluation of the moulding process for production of short-fibre-reinforced C/C-SiC composites. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1057-1066.	5.7	6
18	Integration of Humidity Sensors into Fibre-reinforced Thermoplastic Composites. <i>Procedia Technology</i> , 2016, 26, 207-213.	1.1	5

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19	Development of Nonwoven Preforms Made of Pure Recycled Carbon Fibres (rCF) for Applications of Composite Materials. Key Engineering Materials, 0, 742, 555-561.	0.4	5
20	Influence of Copper Interlayers on the Magnetic Pulse Welding Process between Aluminum and Steel. Metals, 2021, 11, 868.	2.3	5
21	Influence of process control agent (PCA) and atmosphere during high-energy ball milling for the production of particle-reinforced aluminium matrix composites. Materialwissenschaft Und Werkstofftechnik, 2011, 42, 580-584.	0.9	4
22	Galvanisch vernickelte Kohlenstofffasergewebe zur Herstellung f4gefÄhiger CFK mit Permeationsbarriere. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 546-551.	0.9	4
23	Development and Characterisation of Phenolic Resin Based Liquid Silicon Infiltrated SiC/SiC Composites with SiN_x Fibre Coating. Materials Science Forum, 2015, 825-826, 224-231.	0.3	4
24	Development of a SiN_x-Based Barrier Coating for SiC Fibres. Materials Science Forum, 2015, 825-826, 256-263.	0.3	4
25	Highly-Sensitive Humidity Sensors for Condition Monitoring of Hybrid Laminates. Materials Science Forum, 0, 825-826, 579-585.	0.3	4
26	Material Selection and Process Configuration for Free-Form, Voluminous and Textile-Based Multi-Material-Design by the Example of a Bucket Seat. Key Engineering Materials, 0, 742, 302-309.	0.4	4
27	Influence of Boron on the Creep Behavior and the Microstructure of Particle Reinforced Aluminum Matrix Composites. Metals, 2018, 8, 110.	2.3	4
28	Lightweight Potential of 3D Endless Fiber Reinforcement of Polyurethane Foam Cores with Spacer Fabrics in Hybrid Sandwich Structures with Fiber Reinforced Thermoplastic Facings. Key Engineering Materials, 0, 809, 277-284.	0.4	4
29	Influence of talc in polypropylene foam cores of sandwich structures with skins made of thermoplastic prepregs. IOP Conference Series: Materials Science and Engineering, 0, 480, 012012.	0.6	4
30	Investigation of Different Phenolic Resins and their Behavior during Pyrolysis to Form SiC/C-Composites. Materials Science Forum, 2015, 825-826, 240-248.	0.3	3
31	CATPUAL - An Innovative and High-Performance Hybrid Laminate with Carbon Fibre-Reinforced Thermoplastic Polyurethane. Key Engineering Materials, 0, 742, 294-301.	0.4	3
32	Annealing effects of high sensitive thin strain gauges consisting of nickel carbon nanocomposites. Journal of Reinforced Plastics and Composites, 2018, 37, 1378-1384.	3.1	3
33	Continuous, Free-Formable Sandwich Design with 3D Fiber Reinforced Core for Increased Lightweight Level of Applications in Large-Scale Production. Advanced Engineering Materials, 2019, 21, 1800477.	3.5	3
34	Textile-based surface design of thermoplastic composites for microstructural adhesion to polyurethane foams for lightweight structures. Composite Interfaces, 2019, 26, 339-356.	2.3	3
35	Herstellung einer partikelverstärkten AlCuMgMn-Legierung durch mechanisches Legieren. Materialwissenschaft Und Werkstofftechnik, 2012, 43, 567-571.	0.9	2
36	Reinforcement of Conducting Silver-based Materials. Medziagotyra, 2014, 20, .	0.2	2

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37	Preparation of Ni-C ₂ N ₂ Thin Films for Strain Sensor Applications in New Hybrid Laminates with Thermoplastic Matrix. Materials Science Forum, 2015, 825-826, 548-555.	0.3	2
38	Fundamental Studies and Development on an Innovative Ceramic/Polymer Material Compound. Materials Science Forum, 0, 825-826, 305-313.	0.3	2
39	Surface and Fracture Surface Analysis of Thermally Bonded Metal/FRP Joints. Materials Science Forum, 2015, 825-826, 328-335.	0.3	2
40	Properties of C/Câ€SiC composites produced via transfer moulding and inner siliconization. International Journal of Applied Ceramic Technology, 2020, 17, 2137-2146.	2.1	2
41	Thermoplastic foam injection moulding of sandwich structures with short fibre-reinforced skin layers. Journal of Sandwich Structures and Materials, 2021, 23, 301-321.	3.5	2
42	Numerical simulation with experimental validation of the structural reaction injection moulding of 3D continuous fibre reinforced polyurethane foam. Engineering Research Express, 2021, 3, 025027.	1.6	2
43	Einfluss einer PVD-Al-Zwischenschicht auf die Eigenschaften eines thermisch gespritzten WÄrmedÄmmschichtsystems nach Temperaturwechselbelastung. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 445-455.	0.9	1
44	Specific Mechanical Properties of New Hybrid Laminates with Thermoplastic Matrix and a Variable Metal Component. Materials Science Forum, 0, 825-826, 344-352.	0.3	1
45	New approach to design of ceramic/polymer material compounds. IOP Conference Series: Materials Science and Engineering, 2016, 118, 012015.	0.6	1
46	The Development of Lead-Free Sliding Contacts Based on Bronze-Graphite Composites through Powder Injection Moulding. Key Engineering Materials, 0, 742, 205-212.	0.4	1
47	Influence of Sputtering Temperature and Layer Thickness on the Electrical Performance of Thin Film Strain Sensors Consisting of Nickel-Carbon Composite. Key Engineering Materials, 0, 809, 413-418.	0.4	1
48	Evaluation of the Technical-Economic Potential of Thermosetting Injection Moulding for Shaping of C/C-SiC-Ceramics. Procedia CIRP, 2019, 85, 66-71.	1.9	1
49	Thermoset IMÄ€based C/Câ€SiC: Influence of flow direction and weld lines on microstructure and mechanical properties. International Journal of Applied Ceramic Technology, 2021, 18, 280-288.	2.1	1
50	Influence of the cooling behaviour on mechanical properties of carbon fibre-reinforced thermoplastic/metal laminates. Technologies for Lightweight Structures, 2018, 1, .	0.2	1
51	Material-integrated composite humidity sensors for condition monitoring of fiber-reinforced plastics. Technologies for Lightweight Structures, 2018, 1, .	0.2	1
52	Quasi-Static and Fatigue Properties of Thermoset Sandwiches with 3D Continuous Fibre Reinforced Polyurethane Foam Core. Materials, 2022, 15, 764.	2.9	1
53	Entwicklung eines stoffschlÄ¼ssigen FÄ¼r Glaskohlenstoff und einem C/C-SiCN-Verbundwerkstoff fÄ¼r ein innovatives Hochtemperatur-Messsystem. Materialwissenschaft Und Werkstofftechnik, 2014, 45, 522-530.	0.9	0
54	Method to Quantify the Surface Roughness of Circular Reinforcing Fibres. Materials Science Forum, 0, 825-826, 922-927.	0.3	0

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55	Continuous splitting of carbon fibre rovings. Journal of Industrial Textiles, 2016, 45, 930-943.	2.4	0
56	Torque-Fiber-Winding (TFW)-Procedure: Manufacturing of Textile-Based Unidirectional Prepreg for Raw Material and Material Development of Carbon Fibre Reinforced Thermoplastics. Key Engineering Materials, 0, 742, 498-505.	0.4	0
57	Strategy and numerical modelling of a vehicle seat with a lightweight sandwich design for large-scale production. Technologies for Lightweight Structures, 2018, 1, .	0.2	0