

ZoltÄ;n Major

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,260
citations

840728

11
h-index

642715

23
g-index

33
all docs

33
docs citations

33
times ranked

2306
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental feasibility and environmental impacts of compression molded discontinuous carbon fiber composites with opportunities for circular economy. <i>Composites Part B: Engineering</i> , 2022, 234, 109638.	12.0	12
2	Development and investigation of the applicability of computed tomography data-based modelling technique for polymeric high-density foams. <i>Frontiers in Forests and Global Change</i> , 2022, 41, 80-99.	1.1	0
3	Controllable construction of ZnFe ₂ O ₄ -based micro-nano heterostructure for the rapid detection and degradation of VOCs. <i>Journal of Hazardous Materials</i> , 2022, 435, 129005.	12.4	27
4	Quantitative investigation of local strain and defect formation in short glass fibre reinforced polymers using X-ray computed tomography. <i>Nondestructive Testing and Evaluation</i> , 2022, 37, 582-600.	2.1	3
5	Mechanical Consequences of Dynamically Loaded NiTi Wires under Typical Actuator Conditions in Rehabilitation and Neuroscience. <i>Journal of Functional Biomaterials</i> , 2021, 12, 4.	4.4	3
6	Ionic liquid([C ₁₂ mim][PF ₆])-assisted synthesis of TiO ₂ /Ti ₂ O (PO ₄) ₂ nanosheets and the chemoresistive gas sensing of trimethylamine. <i>Mikrochimica Acta</i> , 2021, 188, 74.	5.0	13
7	Dynamic failure and crash simulation of carbon fiber sheet moulding compound (CF-SMC). <i>Automotive and Engine Technology</i> , 2021, 6, 63-77.	1.1	3
8	Design of an Inkjet-Printed Rotary Bellows Actuator and Simulation of its Time-Dependent Deformation Behavior. <i>Frontiers in Robotics and AI</i> , 2021, 8, 663158.	3.2	4
9	Fast detection of NO ₂ by porous SnO ₂ nanoast sensor at low temperature. <i>Journal of Hazardous Materials</i> , 2021, 419, 126414.	12.4	100
10	Overview and comparison of modelling methods for foams. <i>Journal of Cellular Plastics</i> , 2021, 57, 951-1001.	2.4	16
11	Hyperelastic Material Parameter Determination and Numerical Study of TPU and PDMS Dampers. <i>Materials</i> , 2021, 14, 7639.	2.9	11
12	Novel Two-Dimensional WO ₃ /Bi ₂ WO ₉ Nanocomposites for Rapid H ₂ S Detection at Low Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54946-54954.	8.0	34
13	Embedded NiTi Wires for Improved Dynamic Thermomechanical Performance of Silicone Elastomers. <i>Materials</i> , 2020, 13, 5076.	2.9	5
14	Photothermal Porosity Estimation in CFRP by the Time-of-Flight of Virtual Waves. <i>Journal of Nondestructive Evaluation</i> , 2020, 39, 1.	2.4	6
15	Adherence Kinetics of a PDMS Gripper with Inherent Surface Tackiness. <i>Polymers</i> , 2020, 12, 2440.	4.5	9
16	Co ₃ O ₄ Hollow Nanosphere-Decorated Graphene Sheets for H ₂ S Sensing near Room Temperature. <i>ACS Applied Nano Materials</i> , 2019, 2, 5409-5419.	5.0	35
17	PolyJet-Printed Bellows Actuators: Design, Structural Optimization, and Experimental Investigation. <i>Frontiers in Robotics and AI</i> , 2019, 6, 34.	3.2	29
18	Design and shape optimization of PolyJet bellows actuators. , 2018, , .		18

#	ARTICLE	IF	CITATIONS
19	Reliability and survival analysis of the fatigue behavior of short-fiber-reinforced polymer components. , 2017, , .		0
20	Mouthsticks - A Participatory Approach. Studies in Health Technology and Informatics, 2017, 242, 413-420.	0.3	0
21	Process Development for the Design and Manufacturing of Personalizable Mouth Sticks. Studies in Health Technology and Informatics, 2017, 242, 437-444.	0.3	0
22	Strength of single-lap-joint assemblies of continuous unidirectional carbon fibre-reinforced thermoplastic matrix tapes under tensile loading. Journal of Composite Materials, 2015, 49, 1977-1987.	2.4	12
23	Non-stoichiometric curing effect on fracture toughness of nanosilica particulate-reinforced epoxy composites. Journal of Materials Science, 2014, 49, 7454-7461.	3.7	7
24	Mechanical properties of nano-silica particulate-reinforced epoxy composites considered in terms of crosslinking effect in matrix resins. Journal of Materials Science, 2013, 48, 5148-5156.	3.7	25
25	Ultrathin, highly flexible and stretchable PLEDs. Nature Photonics, 2013, 7, 811-816.	31.4	832
26	Uniaxial nonlinear viscoelastic viscoplastic modeling of polypropylene. Mechanics of Time-Dependent Materials, 2012, 16, 275-286.	4.4	13
27	Nanoindentation of polymers. Meccanica, 2012, 47, 707-718.	2.0	25
28	A combined experimental and simulation approach for modelling the mechanical behaviour of heterogeneous materials using rapid prototyped microcells. Virtual and Physical Prototyping, 2011, 6, 111-120.	10.4	9
29	Application of computed tomography dataâ€‘based modelling technique for polymeric low density foams, Part A: Model development. Journal of Cellular Plastics, 0, , 0021955X2110281.	2.4	4
30	Development and investigation of the applicability of microstructural models for polymeric low density foams directly obtained from computed tomography data. Frontiers in Forests and Global Change, 0, , 026248932110416.	1.1	2
31	Application of computed tomography dataâ€‘based modelling technique for polymeric low density foams, Part B: Characterization of the mechanical behaviour. Journal of Cellular Plastics, 0, , 0021955X2210960.	2.4	3