

Amir Ameli

List of Publications by Year in descending order

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80
papers

4,189
citations

136740

32
h-index

114278

63
g-index

80
all docs

80
docs citations

80
times ranked

4025
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical properties and electromagnetic interference shielding effectiveness of polypropylene/carbon fiber composite foams. <i>Carbon</i> , 2013, 60, 379-391.	5.4	484
2	Polypropylene/carbon nanotube nano/microcellular structures with high dielectric permittivity, low dielectric loss, and low percolation threshold. <i>Carbon</i> , 2014, 71, 206-217.	5.4	361
3	3D printed highly elastic strain sensors of multiwalled carbon nanotube/thermoplastic polyurethane nanocomposites. <i>Materials and Design</i> , 2017, 131, 394-401.	3.3	352
4	A Multiobjective Particle Swarm Optimization for Sizing and Placement of DGs from DG Owner's and Distribution Company's Viewpoints. <i>IEEE Transactions on Power Delivery</i> , 2014, 29, 1831-1840.	2.9	229
5	Fracture resistance measurement of fused deposition modeling 3D printed polymers. <i>Polymer Testing</i> , 2017, 60, 94-101.	2.3	188
6	Functional Polymers and Nanocomposites for 3D Printing of Smart Structures and Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17489-17507.	4.0	171
7	Development of high void fraction polylactide composite foams using injection molding: Crystallization and foaming behaviors. <i>Chemical Engineering Journal</i> , 2015, 262, 78-87.	6.6	156
8	Development of high void fraction polylactide composite foams using injection molding: Mechanical and thermal insulation properties. <i>Composites Science and Technology</i> , 2014, 90, 88-95.	3.8	155
9	Attack Detection and Identification for Automatic Generation Control Systems. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 4760-4774.	4.6	131
10	Interlayer adhesion and fracture resistance of polymers printed through melt extrusion additive manufacturing process. <i>Materials and Design</i> , 2018, 156, 351-361.	3.3	131
11	Bidirectional and Stretchable Piezoresistive Sensors Enabled by Multimaterial 3D Printing of Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. <i>Polymers</i> , 2019, 11, 11.	2.0	118
12	Through-plane electrical conductivity of injection-molded polypropylene/carbon-fiber composite foams. <i>Composites Science and Technology</i> , 2013, 76, 37-44.	3.8	104
13	Effects of synthesis catalyst and temperature on broadband dielectric properties of nitrogen-doped carbon nanotube/polyvinylidene fluoride nanocomposites. <i>Carbon</i> , 2016, 106, 260-278.	5.4	99
14	Open-cell cavity-integrated injection-molded acoustic polypropylene foams. <i>Materials & Design</i> , 2014, 53, 20-28.	5.1	84
15	Process-microstructure-electrical conductivity relationships in injection-molded polypropylene/carbon nanotube nanocomposite foams. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 96, 28-36.	3.8	80
16	Attack Detection for Load Frequency Control Systems Using Stochastic Unknown Input Estimators. <i>IEEE Transactions on Information Forensics and Security</i> , 2018, 13, 2575-2590.	4.5	63
17	Hygrothermal Properties of Highly Toughened Epoxy Adhesives. <i>Journal of Adhesion</i> , 2010, 86, 698-725.	1.8	60
18	Characterization of hard-segment crystalline phase of thermoplastic polyurethane in the presence of butane and glycerol monostearate and its impact on mechanical property and microcellular morphology. <i>Polymer</i> , 2017, 112, 208-218.	1.8	59

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19	Evaluation and modeling of electrical conductivity in conductive polymer nanocomposite foams with multiwalled carbon nanotube networks. <i>Chemical Engineering Journal</i> , 2021, 411, 128382.	6.6	59
20	3D printed conductive thermoplastic polyurethane/carbon nanotube composites for capacitive and piezoresistive sensing in soft pneumatic actuators. <i>Additive Manufacturing</i> , 2020, 34, 101281.	1.7	54
21	A parametric study on residual stresses and forging load in cold radial forging process. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 33, 7-17.	1.5	51
22	Experimental observation and modeling of fiber rotation and translation during foam injection molding of polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 88, 67-74.	3.8	51
23	Fracture R-curve characterization of toughened epoxy adhesives. <i>Engineering Fracture Mechanics</i> , 2010, 77, 521-534.	2.0	50
24	A dynamic method for feeder reconfiguration and capacitor switching in smart distribution systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 85, 200-211.	3.3	48
25	Highly stretchable conductive thermoplastic vulcanizate/carbon nanotube nanocomposites with segregated structure, low percolation threshold and improved cyclic electromechanical performance. <i>Journal of Materials Chemistry C</i> , 2018, 6, 350-359.	2.7	48
26	Employing Nitrogen Doping as Innovative Technique to Improve Broadband Dielectric Properties of Carbon Nanotube/Polymer Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 555-565.	1.7	44
27	Hybrid conductive filler/polycarbonate composites with enhanced electrical and thermal conductivities for bipolar plate applications. <i>Polymer Composites</i> , 2019, 40, 3189-3198.	2.3	43
28	Hygrothermal degradation of two rubber-toughened epoxy adhesives: Application of open-faced fracture tests. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 9-19.	1.4	38
29	Theoretical modeling and experimental verification of percolation threshold with MWCNTs's rotation and translation around a growing bubble in conductive polymer composite foams. <i>Composites Science and Technology</i> , 2020, 199, 108345.	3.8	38
30	Fracture R-curve of a toughened epoxy adhesive as a function of irreversible degradation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5105-5114.	2.6	35
31	Development of a Cyber-Resilient Line Current Differential Relay. <i>IEEE Transactions on Industrial Informatics</i> , 2019, 15, 305-318.	7.2	35
32	Effects of hygrothermal aging on the fatigue behavior of two toughened epoxy adhesives. <i>Engineering Fracture Mechanics</i> , 2012, 79, 61-77.	2.0	34
33	Percolation mechanism and effective conductivity of mechanically deformed 3-dimensional composite networks: Computational modeling and experimental verification. <i>Composites Part B: Engineering</i> , 2021, 207, 108552.	5.9	32
34	Prediction of environmental degradation of closed adhesive joints using data from open-faced specimens. <i>Composite Structures</i> , 2012, 94, 779-786.	3.1	30
35	The interfacial tension of molten polylactide in supercritical carbon dioxide. <i>Journal of Chemical Thermodynamics</i> , 2014, 75, 69-76.	1.0	27
36	Modelling of Rod-Like Fillers's Rotation and Translation near Two Growing Cells in Conductive Polymer Composite Foam Processing. <i>Polymers</i> , 2018, 10, 261.	2.0	26

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37	Mechanical, electrical, and piezoresistivity behaviors of additively manufactured acrylonitrile butadiene styrene/carbon nanotube nanocomposites. <i>Smart Materials and Structures</i> , 2019, 28, 084004.	1.8	26
38	Predicting environmental degradation of adhesive joints using a cohesive zone finite element model based on accelerated fracture tests. <i>International Journal of Adhesion and Adhesives</i> , 2017, 76, 54-60.	1.4	25
39	Strong ultralight foams based on nanocrystalline cellulose for high-performance insulation. <i>Carbohydrate Polymers</i> , 2019, 218, 103-111.	5.1	25
40	Effect of substrate modulus on the fatigue behavior of adhesively bonded joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 534, 594-602.	2.6	24
41	Adherend thickness influence on fatigue behavior and fatigue failure prediction of adhesively bonded joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 48, 181-191.	3.8	22
42	Distributed generation planning based on the distribution company's and the DG owner's profit maximization. <i>International Transactions on Electrical Energy Systems</i> , 2015, 25, 216-232.	1.2	22
43	In Situ Foam 3D Printing of Microcellular Structures Using Material Extrusion Additive Manufacturing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 22454-22465.	4.0	21
44	Crack growth rate and crack path in adhesively bonded joints: Comparison of creep, fatigue and fracture. <i>International Journal of Adhesion and Adhesives</i> , 2013, 46, 74-84.	1.4	20
45	Mechanical properties and foaming behavior of polypropylene/elastomer/recycled carbon fiber composites. <i>Polymer Composites</i> , 2021, 42, 3482-3492.	2.3	20
46	Profit-Based DG Planning Considering Environmental and Operational Issues: A Multiobjective Approach. <i>IEEE Systems Journal</i> , 2017, 11, 1959-1970.	2.9	17
47	Highly-Loaded Thermoplastic Polyurethane/Lead Zirconate Titanate Composite Foams with Low Permittivity Fabricated using Expandable Microspheres. <i>Polymers</i> , 2019, 11, 280.	2.0	16
48	Evolution of crack path and fracture surface with degradation in rubber-toughened epoxy adhesive joints: Application to open-faced specimens. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 530-540.	1.4	15
49	Polyvinyl Alcohol/Calcium Carbonate Nanocomposites as Efficient and Cost-Effective Cationic Dye Adsorbents. <i>Polymers</i> , 2020, 12, 2179.	2.0	13
50	Deep Eutectic Solvent-Extracted Lignin as an Efficient Additive for Entirely Biobased Polylactic Acid Composites. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5861-5871.	2.0	13
51	Thermoplastic Polyurethane/Lead Zirconate Titanate/Carbon Nanotube Composites with Very High Dielectric Permittivity and Low Dielectric Loss. <i>Journal of Composites Science</i> , 2020, 4, 137.	1.4	12
52	Analysis and design of adhesively bonded joints for fatigue and fracture loading: a fracture-mechanics approach. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 1681-1711.	1.4	11
53	Accurate Fault Diagnosis in Transformers Using an Auxiliary Current-Compensation-Based Framework for Differential Relays. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-14.	2.4	11
54	Finite-Element Modeling and Optimization of 3D-Printed Auxetic Reentrant Structures with Stiffness Gradient under Low-Velocity Impact. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	1.6	11

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55	Crack path selection in the fracture of fresh and degraded epoxy adhesive joints. Engineering Fracture Mechanics, 2011, 78, 1986-2003.	2.0	9
56	The impact of nozzle and bed temperatures on the fracture resistance of FDM printed materials. Proceedings of SPIE, 2017, , .	0.8	9
57	Effects of uniaxial and biaxial orientation on fiber percolation in conductive polymer composites. AIP Conference Proceedings, 2015, , .	0.3	8
58	3D printing of highly elastic strain sensors using polyurethane/multiwall carbon nanotube composites. Proceedings of SPIE, 2017, , .	0.8	8
59	Extruded polycarbonate/Di-Allyl phthalate composites with ternary conductive filler system for bipolar plates of polymer electrolyte membrane fuel cells. Smart Materials and Structures, 2019, 28, 064004.	1.8	8
60	Characterization and prediction of fracture properties in hygrothermally degraded adhesive joints: an open-faced approach. Journal of Adhesion Science and Technology, 2013, 27, 1080-1103.	1.4	7
61	Multi-objective DG planning considering operational and economic viewpoints. , 2013, , .		6
62	Reinforcing potential of recycled carbon fibers in compatibilized polypropylene composites. Journal of Polymer Research, 2021, 28, 1.	1.2	6
63	Comparison of melting and crystallization behaviors of polylactide under high-pressure CO ₂ , N ₂ , and He. AIP Conference Proceedings, 2014, , .	0.3	5
64	Mechanical Behavior of 3D Printed Multiwalled Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. , 2017, , .		5
65	3D-Printed Conductive Nanocomposites for Liquid Sensing Applications. , 2017, , .		5
66	Electrical conductivity and piezoresistive response of 3D printed thermoplastic polyurethane/multiwalled carbon nanotube composites. , 2018, , .		5
67	Nonlinear time response optimization using imperialist competitive algorithm for tuning robust power system stabilizers. IETE Journal of Research, 2013, 59, 631.	1.8	4
68	DESIGN OF PWMSC CONTROLLER USING AUGMENTED LAGRANGIAN PARTICLE SWARM OPTIMIZATION ALGORITHM. Journal of Circuits, Systems and Computers, 2014, 23, 1450110.	1.0	2
69	Expanded polylactide bead foaming - A new technology. AIP Conference Proceedings, 2015, , .	0.3	2
70	Melt Processed Conductive Polycarbonate Composites With Ternary Fillers Towards Bipolar Plate Applications. , 2018, , .		2
71	Foam injection molding of polypropylene/stainless steel fiber composites for efficient EMI shielding. AIP Conference Proceedings, 2016, , .	0.3	2
72	Solvent sensitivity of smart 3D-printed nanocomposite liquid sensor. , 2018, , .		2

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73	The Shuffled frog leaping algorithm for designing damping controller of UPFC. , 2012, , .		1
74	Preparation of Highly Loaded Piezo-Composite Foams With High Expansion and Low Permittivity. , 2017, , .		1
75	Macromol. Mater. Eng. 5/2016. Macromolecular Materials and Engineering, 2016, 301, 640-640.	1.7	0
76	Fault-Observability Enhancement in Distribution Networks Using Power Quality Monitors. , 2018, , .		0
77	Electrical Properties of Additively Manufactured Acrylonitrile Butadiene Styrene/Carbon Nanotube Nanocomposite. , 2018, , .		0
78	Tensile Properties of 3D-Printed Polycarbonate/Carbon Nanotube Nanocomposites. , 2018, , .		0
79	Foam Injection Molding of Conductive-Filler/Polymer Composites. , 2019, , 115-148.		0
80	The Effect of Foaming on the Properties of Carbon Nanotubes/Polymer Composites. , 2019, , 235-254.		0