

Amir Ameli

List of Publications by Year in descending order

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80
papers

4,189
citations

136950

32
h-index

114465

63
g-index

80
all docs

80
docs citations

80
times ranked

4025
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Foam 3D Printing of Microcellular Structures Using Material Extrusion Additive Manufacturing. ACS Applied Materials & Interfaces, 2022, 14, 22454-22465.	8.0	21
2	Deep Eutectic Solvent-Extracted Lignin as an Efficient Additive for Entirely Biobased Polylactic Acid Composites. ACS Applied Polymer Materials, 2022, 4, 5861-5871.	4.4	13
3	Percolation mechanism and effective conductivity of mechanically deformed 3-dimensional composite networks: Computational modeling and experimental verification. Composites Part B: Engineering, 2021, 207, 108552.	12.0	32
4	Accurate Fault Diagnosis in Transformers Using an Auxiliary Current-Compensation-Based Framework for Differential Relays. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	11
5	Reinforcing potential of recycled carbon fibers in compatibilized polypropylene composites. Journal of Polymer Research, 2021, 28, 1.	2.4	6
6	Mechanical properties and foaming behavior of polypropylene/elastomer/recycled carbon fiber composites. Polymer Composites, 2021, 42, 3482-3492.	4.6	20
7	Evaluation and modeling of electrical conductivity in conductive polymer nanocomposite foams with multiwalled carbon nanotube networks. Chemical Engineering Journal, 2021, 411, 128382.	12.7	59
8	Finite-Element Modeling and Optimization of 3D-Printed Auxetic Reentrant Structures with Stiffness Gradient under Low-Velocity Impact. Journal of Engineering Mechanics - ASCE, 2021, 147, .	2.9	11
9	Polyvinyl Alcohol/Calcium Carbonate Nanocomposites as Efficient and Cost-Effective Cationic Dye Adsorbents. Polymers, 2020, 12, 2179.	4.5	13
10	Thermoplastic Polyurethane/Lead Zirconate Titanate/Carbon Nanotube Composites with Very High Dielectric Permittivity and Low Dielectric Loss. Journal of Composites Science, 2020, 4, 137.	3.0	12
11	3D printed conductive thermoplastic polyurethane/carbon nanotube composites for capacitive and piezoresistive sensing in soft pneumatic actuators. Additive Manufacturing, 2020, 34, 101281.	3.0	54
12	Theoretical modeling and experimental verification of percolation threshold with MWCNTsâ€™ rotation and translation around a growing bubble in conductive polymer composite foams. Composites Science and Technology, 2020, 199, 108345.	7.8	38
13	Development of a Cyber-Resilient Line Current Differential Relay. IEEE Transactions on Industrial Informatics, 2019, 15, 305-318.	11.3	35
14	Foam Injection Molding of Conductive-Filler/Polymer Composites. , 2019, , 115-148.		0
15	Mechanical, electrical, and piezoresistivity behaviors of additively manufactured acrylonitrile butadiene styrene/carbon nanotube nanocomposites. Smart Materials and Structures, 2019, 28, 084004.	3.5	26
16	The Effect of Foaming on the Properties of Carbon Nanotubes/Polymer Composites. , 2019, , 235-254.		0
17	Strong ultralight foams based on nanocrystalline cellulose for high-performance insulation. Carbohydrate Polymers, 2019, 218, 103-111.	10.2	25
18	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.	3.5	8

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19	Highly-Loaded Thermoplastic Polyurethane/Lead Zirconate Titanate Composite Foams with Low Permittivity Fabricated using Expandable Microspheres. <i>Polymers</i> , 2019, 11, 280.	4.5	16
20	Hybrid conductive filler/polycarbonate composites with enhanced electrical and thermal conductivities for bipolar plate applications. <i>Polymer Composites</i> , 2019, 40, 3189-3198.	4.6	43
21	Bidirectional and Stretchable Piezoresistive Sensors Enabled by Multimaterial 3D Printing of Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. <i>Polymers</i> , 2019, 11, 11.	4.5	118
22	Attack Detection and Identification for Automatic Generation Control Systems. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 4760-4774.	6.5	131
23	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.	6.9	63
24	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.	5.5	48
25	Fault-Observability Enhancement in Distribution Networks Using Power Quality Monitors. , 2018, , .		0
26	Electrical Properties of Additively Manufactured Acrylonitrile Butadiene Styrene/Carbon Nanotube Nanocomposite. , 2018, , .		0
27	Melt Processed Conductive Polycarbonate Composites With Ternary Fillers Towards Bipolar Plate Applications. , 2018, , .		2
28	Tensile Properties of 3D-Printed Polycarbonate/Carbon Nanotube Nanocomposites. , 2018, , .		0
29	Interlayer adhesion and fracture resistance of polymers printed through melt extrusion additive manufacturing process. <i>Materials and Design</i> , 2018, 156, 351-361.	7.0	131
30	Modelling of Rod-Like Fillersâ€™ Rotation and Translation near Two Growing Cells in Conductive Polymer Composite Foam Processing. <i>Polymers</i> , 2018, 10, 261.	4.5	26
31	Functional Polymers and Nanocomposites for 3D Printing of Smart Structures and Devices. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17489-17507.	8.0	171
32	Solvent sensitivity of smart 3D-printed nanocomposite liquid sensor. , 2018, , .		2
33	Electrical conductivity and piezoresistive response of 3D printed thermoplastic polyurethane/multiwalled carbon nanotube composites. , 2018, , .		5
34	Profit-Based DG Planning Considering Environmental and Operational Issues: A Multiobjective Approach. <i>IEEE Systems Journal</i> , 2017, 11, 1959-1970.	4.6	17
35	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.	7.6	80
36	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.	3.8	59

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37	Predicting environmental degradation of adhesive joints using a cohesive zone finite element model based on accelerated fracture tests. International Journal of Adhesion and Adhesives, 2017, 76, 54-60.	2.9	25
38	The impact of nozzle and bed temperatures on the fracture resistance of FDM printed materials. Proceedings of SPIE, 2017, , .	0.8	9
39	3D printing of highly elastic strain sensors using polyurethane/multiwall carbon nanotube composites. Proceedings of SPIE, 2017, , .	0.8	8
40	3D printed highly elastic strain sensors of multiwalled carbon nanotube/thermoplastic polyurethane nanocomposites. Materials and Design, 2017, 131, 394-401.	7.0	352
41	Fracture resistance measurement of fused deposition modeling 3D printed polymers. Polymer Testing, 2017, 60, 94-101.	4.8	188
42	Mechanical Behavior of 3D Printed Multiwalled Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. , 2017, , .		5
43	Preparation of Highly Loaded Piezo-Composite Foams With High Expansion and Low Permittivity. , 2017, , .		1
44	3D-Printed Conductive Nanocomposites for Liquid Sensing Applications. , 2017, , .		5
45	A dynamic method for feeder reconfiguration and capacitor switching in smart distribution systems. International Journal of Electrical Power and Energy Systems, 2017, 85, 200-211.	5.5	48
46	Macromol. Mater. Eng. 5/2016. Macromolecular Materials and Engineering, 2016, 301, 640-640.	3.6	0
47	Employing Nitrogen Doping as Innovative Technique to Improve Broadband Dielectric Properties of Carbon Nanotube/Polymer Nanocomposites. Macromolecular Materials and Engineering, 2016, 301, 555-565.	3.6	44
48	Experimental observation and modeling of fiber rotation and translation during foam injection molding of polymer composites. Composites Part A: Applied Science and Manufacturing, 2016, 88, 67-74.	7.6	51
49	Effects of synthesis catalyst and temperature on broadband dielectric properties of nitrogen-doped carbon nanotube/polyvinylidene fluoride nanocomposites. Carbon, 2016, 106, 260-278.	10.3	99
50	Foam injection molding of polypropylene/stainless steel fiber composites for efficient EMI shielding. AIP Conference Proceedings, 2016, , .	0.4	2
51	Expanded polylactide bead foaming - A new technology. AIP Conference Proceedings, 2015, , .	0.4	2
52	Effects of uniaxial and biaxial orientation on fiber percolation in conductive polymer composites. AIP Conference Proceedings, 2015, , .	0.4	8
53	Distributed generation planning based on the distribution company's and the DG owner's profit maximization. International Transactions on Electrical Energy Systems, 2015, 25, 216-232.	1.9	22
54	Development of high void fraction polylactide composite foams using injection molding: Crystallization and foaming behaviors. Chemical Engineering Journal, 2015, 262, 78-87.	12.7	156

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55	DESIGN OF PWMSC CONTROLLER USING AUGMENTED LAGRANGIAN PARTICLE SWARM OPTIMIZATION ALGORITHM. Journal of Circuits, Systems and Computers, 2014, 23, 1450110.	1.5	2
56	The interfacial tension of molten polylactide in supercritical carbon dioxide. Journal of Chemical Thermodynamics, 2014, 75, 69-76.	2.0	27
57	A Multiobjective Particle Swarm Optimization for Sizing and Placement of DGs from DG Owner's and Distribution Company's Viewpoints. IEEE Transactions on Power Delivery, 2014, 29, 1831-1840.	4.3	229
58	Development of high void fraction polylactide composite foams using injection molding: Mechanical and thermal insulation properties. Composites Science and Technology, 2014, 90, 88-95.	7.8	155
59	Polypropylene/carbon nanotube nano/microcellular structures with high dielectric permittivity, low dielectric loss, and low percolation threshold. Carbon, 2014, 71, 206-217.	10.3	361
60	Open-cell cavity-integrated injection-molded acoustic polypropylene foams. Materials & Design, 2014, 53, 20-28.	5.1	84
61	Comparison of melting and crystallization behaviors of polylactide under high-pressure CO ₂ , N ₂ , and He. AIP Conference Proceedings, 2014, , .	0.4	5
62	Crack growth rate and crack path in adhesively bonded joints: Comparison of creep, fatigue and fracture. International Journal of Adhesion and Adhesives, 2013, 46, 74-84.	2.9	20
63	Analysis and design of adhesively bonded joints for fatigue and fracture loading: a fracture-mechanics approach. Journal of Adhesion Science and Technology, 2013, 27, 1681-1711.	2.6	11
64	Nonlinear time response optimization using imperialist competitive algorithm for tuning robust power system stabilizers. IETE Journal of Research, 2013, 59, 631.	2.6	4
65	Multi-objective DG planning considering operational and economic viewpoints. , 2013, , .		6
66	Adherend thickness influence on fatigue behavior and fatigue failure prediction of adhesively bonded joints. Composites Part A: Applied Science and Manufacturing, 2013, 48, 181-191.	7.6	22
67	Electrical properties and electromagnetic interference shielding effectiveness of polypropylene/carbon fiber composite foams. Carbon, 2013, 60, 379-391.	10.3	484
68	Through-plane electrical conductivity of injection-molded polypropylene/carbon-fiber composite foams. Composites Science and Technology, 2013, 76, 37-44.	7.8	104
69	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.	2.6	7
70	The Shuffled frog leaping algorithm for designing damping controller of UPFC. , 2012, , .		1
71	Prediction of environmental degradation of closed adhesive joints using data from open-faced specimens. Composite Structures, 2012, 94, 779-786.	5.8	30
72	Effects of hygrothermal aging on the fatigue behavior of two toughened epoxy adhesives. Engineering Fracture Mechanics, 2012, 79, 61-77.	4.3	34

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73	Effect of substrate modulus on the fatigue behavior of adhesively bonded joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 594-602.	5.6	24
74	Crack path selection in the fracture of fresh and degraded epoxy adhesive joints. Engineering Fracture Mechanics, 2011, 78, 1986-2003.	4.3	9
75	Hygrothermal degradation of two rubber-toughened epoxy adhesives: Application of open-faced fracture tests. International Journal of Adhesion and Adhesives, 2011, 31, 9-19.	2.9	38
76	Evolution of crack path and fracture surface with degradation in rubber-toughened epoxy adhesive joints: Application to open-faced specimens. International Journal of Adhesion and Adhesives, 2011, 31, 530-540.	2.9	15
77	Fracture R-curve of a toughened epoxy adhesive as a function of irreversible degradation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 5105-5114.	5.6	35
78	Fracture R-curve characterization of toughened epoxy adhesives. Engineering Fracture Mechanics, 2010, 77, 521-534.	4.3	50
79	Hygrothermal Properties of Highly Toughened Epoxy Adhesives. Journal of Adhesion, 2010, 86, 698-725.	3.0	60
80	A parametric study on residual stresses and forging load in cold radial forging process. International Journal of Advanced Manufacturing Technology, 2007, 33, 7-17.	3.0	51