Amir Ameli

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electrical properties and electromagnetic interference shielding effectiveness of polypropylene/carbon fiber composite foams. Carbon, 2013, 60, 379-391.	10.3	484
2	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
3	3D printed highly elastic strain sensors of multiwalled carbon nanotube/thermoplastic polyurethane nanocomposites. Materials and Design, 2017, 131, 394-401.	7.0	352
4	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
5	Fracture resistance measurement of fused deposition modeling 3D printed polymers. Polymer Testing, 2017, 60, 94-101.	4.8	188
6	Functional Polymers and Nanocomposites for 3D Printing of Smart Structures and Devices. ACS Applied Materials & Interfaces, 2018, 10, 17489-17507.	8.0	171
7	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
8	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
9	Attack Detection and Identification for Automatic Generation Control Systems. IEEE Transactions on Power Systems, 2018, 33, 4760-4774.	6.5	131
10	Interlayer adhesion and fracture resistance of polymers printed through melt extrusion additive manufacturing process. Materials and Design, 2018, 156, 351-361.	7.0	131
11	Bidirectional and Stretchable Piezoresistive Sensors Enabled by Multimaterial 3D Printing of Carbon Nanotube/Thermoplastic Polyurethane Nanocomposites. Polymers, 2019, 11, 11.	4.5	118
12	Through-plane electrical conductivity of injection-molded polypropylene/carbon-fiber composite foams. Composites Science and Technology, 2013, 76, 37-44.	7.8	104
13	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
14	Open-cell cavity-integrated injection-molded acoustic polypropylene foams. Materials & Design, 2014, 53, 20-28.	5.1	84
15	Process-microstructure-electrical conductivity relationships in injection-molded polypropylene/carbon nanotube nanocomposite foams. Composites Part A: Applied Science and Manufacturing, 2017, 96, 28-36.	7.6	80
16	Attack Detection for Load Frequency Control Systems Using Stochastic Unknown Input Estimators. IEEE Transactions on Information Forensics and Security, 2018, 13, 2575-2590.	6.9	63
17	Hygrothermal Properties of Highly Toughened Epoxy Adhesives. Journal of Adhesion, 2010, 86, 698-725.	3.0	60
18	Characterization of hard-segment crystalline phase of thermoplastic polyurethane in the presence of butane and glycerol monosterate and its impact on mechanical property and microcellular morphology. Polymer, 2017, 112, 208-218.	3.8	59

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19	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
20	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
21	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
22	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
23	Fracture R-curve characterization of toughened epoxy adhesives. Engineering Fracture Mechanics, 2010, 77, 521-534.	4.3	50
24	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
25	Highly stretchable conductive thermoplastic vulcanizate/carbon nanotube nanocomposites with segregated structure, low percolation threshold and improved cyclic electromechanical performance. Journal of Materials Chemistry C, 2018, 6, 350-359.	5.5	48
26	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
27	Hybrid conductive filler/polycarbonate composites with enhanced electrical and thermal conductivities for bipolar plate applications. Polymer Composites, 2019, 40, 3189-3198.	4.6	43
28	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
29	Theoretical modeling and experimental verification of percolation threshold with MWCNTs' rotation and translation around a growing bubble in conductive polymer composite foams. Composites Science and Technology, 2020, 199, 108345.	7.8	38
30	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
31	Development of a Cyber-Resilient Line Current Differential Relay. IEEE Transactions on Industrial Informatics, 2019, 15, 305-318.	11.3	35
32	Effects of hygrothermal aging on the fatigue behavior of two toughened epoxy adhesives. Engineering Fracture Mechanics, 2012, 79, 61-77.	4.3	34
33	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
34	Prediction of environmental degradation of closed adhesive joints using data from open-faced specimens. Composite Structures, 2012, 94, 779-786.	5.8	30
35	The interfacial tension of molten polylactide in supercritical carbon dioxide. Journal of Chemical Thermodynamics, 2014, 75, 69-76.	2.0	27
36	Modelling of Rod-Like Fillers' Rotation and Translation near Two Growing Cells in Conductive Polymer Composite Foam Processing. Polymers, 2018, 10, 261.	4.5	26

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37	Mechanical, electrical, and piezoresistivity behaviors of additively manufactured acrylonitrile butadiene styrene/carbon nanotube nanocomposites. Smart Materials and Structures, 2019, 28, 084004.	3.5	26
38	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
39	Strong ultralight foams based on nanocrystalline cellulose for high-performance insulation. Carbohydrate Polymers, 2019, 218, 103-111.	10.2	25
40	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
41	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
42	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
43	In Situ Foam 3D Printing of Microcellular Structures Using Material Extrusion Additive Manufacturing. ACS Applied Materials & Interfaces, 2022, 14, 22454-22465.	8.0	21
44	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
45	Mechanical properties and foaming behavior of polypropylene/elastomer/recycled carbon fiber composites. Polymer Composites, 2021, 42, 3482-3492.	4.6	20
46	Profit-Based DG Planning Considering Environmental and Operational Issues: A Multiobjective Approach. IEEE Systems Journal, 2017, 11, 1959-1970.	4.6	17
47	Highly-Loaded Thermoplastic Polyurethane/Lead Zirconate Titanate Composite Foams with Low Permittivity Fabricated using Expandable Microspheres. Polymers, 2019, 11, 280.	4.5	16
48	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
49	Polyvinyl Alcohol/Calcium Carbonate Nanocomposites as Efficient and Cost-Effective Cationic Dye Adsorbents. Polymers, 2020, 12, 2179.	4.5	13
50	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
51	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
52	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
53	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
54	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

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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.	4.3	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, , .	0.4	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.	3.5	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.	2.6	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.	2.4	6
63	Comparison of melting and crystallization behaviors of polylactide under high-pressure CO2, N2, and He. AIP Conference Proceedings, 2014, , .	0.4	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.	2.6	4
68	DESIGN OF PWMSC CONTROLLER USING AUGMENTED LAGRANGIAN PARTICLE SWARM OPTIMIZATION ALGORITHM. Journal of Circuits, Systems and Computers, 2014, 23, 1450110.	1.5	2
69	Expanded polylactide bead foaming - A new technology. AIP Conference Proceedings, 2015, , .	0.4	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, , .	0.4	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.	3.6	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