Mostafa Nikzad

List of Publications by Year
in descending order

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43 papers	1,730 citations	516561 16 h-index	302012 39 g-index
43 all docs	43 docs citations	43 times ranked	2053 citing authors

#	Article	IF	Citations
1	Surface quality of printed porous materials for permeability rig calibration. Materials and Manufacturing Processes, 2022, 37, 548-558.	2.7	8
2	Mechanical, viscoelastic and gas transport behaviour of rotationally molded polyethylene composites with hard- and soft-wood natural fibres. Journal of Polymer Research, 2022, 29, 1.	1.2	2
3	Scalable Production and Thermoelectrical Modeling of Infusible Functional Graphene/Epoxy Nanomaterials for Engineering Applications. Industrial & Engineering Chemistry Research, 2022, 61, 5141-5157.	1.8	3
4	Shape memory elastomers: A review of synthesis, design, advanced manufacturing, and emerging applications. Polymers for Advanced Technologies, 2022, 33, 1782-1808.	1.6	12
5	Silk fibroin microfiberâ€reinforced polycaprolactone composites with enhanced biodegradation and biological characteristics. Journal of Biomedical Materials Research - Part A, 2022, , .	2.1	5
6	Esterified cellulose nanocrystals for reinforced epoxy nanocomposites. Progress in Natural Science: Materials International, 2022, 32, 328-333.	1.8	11
7	Modeling Permeability in Multi-Phase Polymer Composites: A Critical Review of Semi-Empirical Approaches. Polymer Reviews, 2021, 61, 194-237.	5.3	6
8	Sensor-based filament fabrication with embedded RFID microchips for 3D printing. Materials Today: Proceedings, 2021, 46, 124-130.	0.9	3
9	Design of a 3D-printable UHF RFID hybrid liquid antenna for biosensing applications. Materials Today: Proceedings, 2021, 46, 4619-4624.	0.9	4
10	Mechanical response of a compressed novel 3D tetrachiral structure processed by MJF 3D printing process. Materials Today: Proceedings, 2021, 46, 4776-4781.	0.9	4
11	A simulation-based approach for assessment of injection moulded part quality made of recycled olefins. Materials Today: Proceedings, 2021, 46, 311-319.	0.9	3
12	Control of an IPMC Soft Actuator Using Adaptive Full-Order Recursive Terminal Sliding Mode. Actuators, 2021, 10, 33.	1.2	4
13	On the Use of Molecular Dynamics Simulations for Elucidating Fine Structural, Physico-Chemical and Thermomechanical Properties of Lignocellulosic Systems: Historical and Future Perspectives. Journal of Composites Science, 2021, 5, 55.	1.4	5
14	A comparative study of force fields for predicting shape memory properties of liquid crystalline elastomers using molecular dynamic simulations. Journal of Applied Physics, 2021, 129, .	1.1	14
15	Simulation-based optimisation for injection configuration design of liquid composite moulding processes: A review. Composites Part A: Applied Science and Manufacturing, 2021, 149, 106540.	3.8	20
16	Failure analysis of 3-D woven and 3-D knitted structures. Materials Today: Proceedings, 2021, 46, 4672-4678.	0.9	1
17	Evaluation of Mechanical and Thermal Performance of Polyethylene Terephthalate Recycled Ribbon and Carbonâ€Reinforced Compatibilized Polypropylene. Polymer Engineering and Science, 2020, 60, 575-580.	1.5	2
18	Additively manufactured three dimensional reference porous media for the calibration of permeability measurement set-ups. Composites Part A: Applied Science and Manufacturing, 2020, 139, 106119.	3.8	8

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19	Production of Cellulose Nanocrystals from Australian Wood Sources. Journal of Nanoscience and Nanotechnology, 2020, 20, 5642-5647.	0.9	2
20	Using viscoelastic modeling and molecular dynamics based simulations to characterize polymer natural fiber composites. Journal of Applied Polymer Science, 2020, 137, 49220.	1.3	4
21	Evolving Strategies for Producing Multiscale Grapheneâ€Enhanced Fiberâ€Reinforced Polymer Composites for Smart Structural Applications. Advanced Science, 2020, 7, 1903501.	5.6	71
22	Predicting trends in structural and physical properties of a model polymer with embedded natural fibers: Viability of molecular dynamics studies for a bottom up design. Journal of Applied Polymer Science, 2019, 136, 48189.	1.3	5
23	Cellulose Nanocrystals: Production, Functionalization and Advanced Applications. Reviews on Advanced Materials Science, 2019, 58, 1-16.	1.4	59
24	Design and evaluation of 3D printed polymeric cellular materials for dynamic energy absorption. International Journal of Advanced Manufacturing Technology, 2019, 103, 2347-2361.	1.5	34
25	The role of ionic-liquid extracted lignin micro/nanoparticles for functionalisation of an epoxy-based composite matrix. Composites Science and Technology, 2019, 174, 11-19.	3.8	20
26	Diffusion of lowâ€molecularâ€weight permeants through semiâ€crystalline polymers: combining molecular dynamics with semiâ€empirical models. Polymer International, 2018, 67, 717-725.	1.6	12
27	Microstructural study of environmentally friendly boroaluminosilicate geopolymers. Journal of Cleaner Production, 2018, 189, 805-812.	4.6	33
28	Two- and three-dimensional graphene-based hybrid composites for advanced energy storage and conversion devices. Journal of Materials Chemistry A, 2018, 6, 702-734.	5.2	126
29	Cell geometry effect on in-plane energy absorption of periodic honeycomb structures. International Journal of Advanced Manufacturing Technology, 2018, 94, 2369-2380.	1.5	58
30	Polymeric feedstock from post-consumer and post-industrial plastic wastes for automotive interior applications. IOP Conference Series: Materials Science and Engineering, 2018, 455, 012048.	0.3	1
31	Permeability control in polymeric systems: a review. Journal of Polymer Research, 2018, 25, 1.	1.2	27
32	Fabrication of polymeric lattice structures for optimum energy absorption using Multi Jet Fusion technology. Materials and Design, 2018, 155, 86-98.	3.3	229
33	On the feasibility of utilising an array of planar parallel robots to service adjoining workspaces. Mechanism and Machine Theory, 2018, 128, 382-394.	2.7	0
34	In-plane energy absorption evaluation of 3D printed polymeric honeycombs. Virtual and Physical Prototyping, 2017, 12, 117-131.	5.3	73
35	Dynamic Mechanical Properties of Fused Deposition Modelling Processed Polyphenylsulfone Material. American Journal of Engineering and Applied Sciences, 2016, 9, 1-11.	0.3	15
36	Effect of Process Parameters on Dynamic Mechanical Performance of FDM PC/ABS Printed Parts Through Design of Experiment. Journal of Materials Engineering and Performance, 2016, 25, 2922-2935.	1.2	107

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37	Design and Development of Scaffolds for Tissue Engineering Using Three-Dimensional Printing for Bio-Based Applications. 3D Printing and Additive Manufacturing, 2016, 3, 119-127.	1.4	37
38	Effects of part build orientations on fatigue behaviour of FDM-processed PLA material. Progress in Additive Manufacturing, 2016, 1, 21-28.	2.5	220
39	STUDY OF DYNAMIC MECHANICAL PROPERTIES OF FUSED DEPOSITION MODELLING PROCESSED ULTEM MATERIAL. American Journal of Engineering and Applied Sciences, 2014, 7, 307-315.	0.3	20
40	Thermo-mechanical properties of a highly filled polymeric composites for Fused Deposition Modeling. Materials & Design, 2011, 32, 3448-3456.	5.1	393
41	Rheological Properties of a Particulate-Filled Polymeric Composite through Fused Deposition Process. Materials Science Forum, 2010, 654-656, 2471-2474.	0.3	21
42	An Investigation of Mechanical Properties of Recycled EVA/Commingled Plastics. Applied Mechanics and Materials, 0, 467, 198-202.	0.2	1
43	Effects of Build Orientations on Tensile Properties of PLA Material Processed by FDM. Advanced Materials Research, 0, 1044-1045, 31-34.	0.3	47