

# 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	Thermo-mechanical properties of a highly filled polymeric composites for Fused Deposition Modeling. <i>Materials &amp; Design</i> , 2011, 32, 3448-3456.	5.1	393
2	Fabrication of polymeric lattice structures for optimum energy absorption using Multi Jet Fusion technology. <i>Materials and Design</i> , 2018, 155, 86-98.	3.3	229
3	Effects of part build orientations on fatigue behaviour of FDM-processed PLA material. <i>Progress in Additive Manufacturing</i> , 2016, 1, 21-28.	2.5	220
4	Two- and three-dimensional graphene-based hybrid composites for advanced energy storage and conversion devices. <i>Journal of Materials Chemistry A</i> , 2018, 6, 702-734.	5.2	126
5	Effect of Process Parameters on Dynamic Mechanical Performance of FDM PC/ABS Printed Parts Through Design of Experiment. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 2922-2935.	1.2	107
6	In-plane energy absorption evaluation of 3D printed polymeric honeycombs. <i>Virtual and Physical Prototyping</i> , 2017, 12, 117-131.	5.3	73
7	Evolving Strategies for Producing Multiscale Graphene-Enhanced Fiber-Reinforced Polymer Composites for Smart Structural Applications. <i>Advanced Science</i> , 2020, 7, 1903501.	5.6	71
8	Cellulose Nanocrystals: Production, Functionalization and Advanced Applications. <i>Reviews on Advanced Materials Science</i> , 2019, 58, 1-16.	1.4	59
9	Cell geometry effect on in-plane energy absorption of periodic honeycomb structures. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 2369-2380.	1.5	58
10	Effects of Build Orientations on Tensile Properties of PLA Material Processed by FDM. <i>Advanced Materials Research</i> , 0, 1044-1045, 31-34.	0.3	47
11	Design and Development of Scaffolds for Tissue Engineering Using Three-Dimensional Printing for Bio-Based Applications. <i>3D Printing and Additive Manufacturing</i> , 2016, 3, 119-127.	1.4	37
12	Design and evaluation of 3D printed polymeric cellular materials for dynamic energy absorption. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 2347-2361.	1.5	34
13	Microstructural study of environmentally friendly boroaluminosilicate geopolymers. <i>Journal of Cleaner Production</i> , 2018, 189, 805-812.	4.6	33
14	Permeability control in polymeric systems: a review. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	27
15	Rheological Properties of a Particulate-Filled Polymeric Composite through Fused Deposition Process. <i>Materials Science Forum</i> , 2010, 654-656, 2471-2474.	0.3	21
16	STUDY OF DYNAMIC MECHANICAL PROPERTIES OF FUSED DEPOSITION MODELLING PROCESSED ULTEM MATERIAL. <i>American Journal of Engineering and Applied Sciences</i> , 2014, 7, 307-315.	0.3	20
17	The role of ionic-liquid extracted lignin micro/nanoparticles for functionalisation of an epoxy-based composite matrix. <i>Composites Science and Technology</i> , 2019, 174, 11-19.	3.8	20
18	Simulation-based optimisation for injection configuration design of liquid composite moulding processes: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106540.	3.8	20

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19	Dynamic Mechanical Properties of Fused Deposition Modelling Processed Polyphenylsulfone Material. American Journal of Engineering and Applied Sciences, 2016, 9, 1-11.	0.3	15
20	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
21	Diffusion of low molecular weight permeants through semi-crystalline polymers: combining molecular dynamics with semi-empirical models. Polymer International, 2018, 67, 717-725.	1.6	12
22	Shape memory elastomers: A review of synthesis, design, advanced manufacturing, and emerging applications. Polymers for Advanced Technologies, 2022, 33, 1782-1808.	1.6	12
23	Esterified cellulose nanocrystals for reinforced epoxy nanocomposites. Progress in Natural Science: Materials International, 2022, 32, 328-333.	1.8	11
24	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
25	Surface quality of printed porous materials for permeability rig calibration. Materials and Manufacturing Processes, 2022, 37, 548-558.	2.7	8
26	Modeling Permeability in Multi-Phase Polymer Composites: A Critical Review of Semi-Empirical Approaches. Polymer Reviews, 2021, 61, 194-237.	5.3	6
27	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
28	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
29	Silk fibroin microfiber-reinforced polycaprolactone composites with enhanced biodegradation and biological characteristics. Journal of Biomedical Materials Research - Part A, 2022, , .	2.1	5
30	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
31	Design of a 3D-printable UHF RFID hybrid liquid antenna for biosensing applications. Materials Today: Proceedings, 2021, 46, 4619-4624.	0.9	4
32	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
33	Control of an IPMC Soft Actuator Using Adaptive Full-Order Recursive Terminal Sliding Mode. Actuators, 2021, 10, 33.	1.2	4
34	Sensor-based filament fabrication with embedded RFID microchips for 3D printing. Materials Today: Proceedings, 2021, 46, 124-130.	0.9	3
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Evaluation of Mechanical and Thermal Performance of Polyethylene Terephthalate Recycled Ribbon and Carbonâ€Reinforced Compatibilized Polypropylene. <i>Polymer Engineering and Science</i> , 2020, 60, 575-580.	1.5	2
38	Production of Cellulose Nanocrystals from Australian Wood Sources. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5642-5647.	0.9	2
39	Mechanical, viscoelastic and gas transport behaviour of rotationally molded polyethylene composites with hard- and soft-wood natural fibres. <i>Journal of Polymer Research</i> , 2022, 29, 1.	1.2	2
40	An Investigation of Mechanical Properties of Recycled EVA/Commingled Plastics. <i>Applied Mechanics and Materials</i> , 0, 467, 198-202.	0.2	1
41	Polymeric feedstock from post-consumer and post-industrial plastic wastes for automotive interior applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 455, 012048.	0.3	1
42	Failure analysis of 3-D woven and 3-D knitted structures. <i>Materials Today: Proceedings</i> , 2021, 46, 4672-4678.	0.9	1
43	On the feasibility of utilising an array of planar parallel robots to service adjoining workspaces. <i>Mechanism and Machine Theory</i> , 2018, 128, 382-394.	2.7	0