

Reza Rowshan

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

1,894
citations

394286

19
h-index

580701

25
g-index

29
all docs

29
docs citations

29
times ranked

1177
citing authors

#	ARTICLE	IF	CITATIONS
1	Bending behavior of triply periodic minimal surface foam-filled tubes. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 3061-3074.	1.5	5
2	Biomimetic Materials for Engineering Applications. , 2022, , 25-34.		2
3	On Stiffness, Strength, Anisotropy, and Buckling of 3D Printed Lattices with Cubic Crystal Structures. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	21
4	Antiscaling 3D printed feed spacers via facile nanoparticle coating for membrane distillation. <i>Water Research</i> , 2021, 189, 116649.	5.3	25
5	Quasi-static and dynamic compressive behaviour of sheet TPMS cellular structures. <i>Composite Structures</i> , 2021, 266, 113801.	3.1	104
6	Development of novel hybrid TPMS cellular lattices and their mechanical characterisation. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1318-1329.	2.6	59
7	Forced Convection Computational Fluid Dynamics Analysis of Architected and Three-Dimensional Printable Heat Sinks Based on Triply Periodic Minimal Surfaces. <i>Journal of Thermal Science and Engineering Applications</i> , 2021, 13, .	0.8	69
8	Three-Dimensional Virtual and Printed Prototypes in Complex Congenital and Pediatric Cardiac Surgeryâ€”A Multidisciplinary Team-Learning Experience. <i>Biomolecules</i> , 2021, 11, 1703.	1.8	9
9	Functionally graded and multi-morphology sheet TPMS lattices: Design, manufacturing, and mechanical properties. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103520.	1.5	213
10	Mechanical behavior of polymeric selective laser sintered ligament and sheet based lattices of triply periodic minimal surface architectures. <i>Materials and Design</i> , 2020, 196, 109100.	3.3	61
11	Impacts of feed spacer design on UF membrane cleaning efficiency. <i>Journal of Membrane Science</i> , 2020, 616, 118571.	4.1	14
12	Microstructural characterization and thermomechanical behavior of additively manufactured AlSi10Mg sheet cellular materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 791, 139714.	2.6	47
13	Microstructural Characterization and Thermomechanical Behavior of Additively Manufactured AlSi10Mg Material and Architected Cellular Structures. <i>Minerals, Metals and Materials Series</i> , 2020, , 165-173.	0.3	2
14	3D printed spacers for organic fouling mitigation in membrane distillation. <i>Journal of Membrane Science</i> , 2019, 581, 331-343.	4.1	73
15	Mechanical Response of 3D Printed Bending-Dominated Ligament-Based Triply Periodic Cellular Polymeric Solids. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 2316-2326.	1.2	55
16	3D printed spacers based on TPMS architectures for scaling control in membrane distillation. <i>Journal of Membrane Science</i> , 2019, 581, 38-49.	4.1	62
17	On Mechanical Properties of Cellular Steel Solids With Shell-Like Periodic Architectures Fabricated by Selective Laser Sintering. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2019, 141, .	0.8	56
18	The effect of architecture on the mechanical properties of cellular structures based on the IWP minimal surface. <i>Journal of Materials Research</i> , 2018, 33, 343-359.	1.2	94

#	ARTICLE	IF	CITATIONS
19	Topology-mechanical property relationship of 3D printed strut, skeletal, and sheet based periodic metallic cellular materials. Additive Manufacturing, 2018, 19, 167-183.	1.7	345
20	3D printed feed spacers based on triply periodic minimal surfaces for flux enhancement and biofouling mitigation in RO and UF. Desalination, 2018, 425, 12-21.	4.0	122
21	Mass transfer analysis of ultrafiltration using spacers based on triply periodic minimal surfaces: Effects of spacer design, directionality and voidage. Journal of Membrane Science, 2018, 561, 89-98.	4.1	64
22	3D printed triply periodic minimal surfaces as spacers for enhanced heat and mass transfer in membrane distillation. Desalination, 2018, 443, 256-271.	4.0	135
23	Microarchitected Stretching-Dominated Mechanical Metamaterials with Minimal Surface Topologies. Advanced Engineering Materials, 2018, 20, 1800029.	1.6	138
24	Mechanical Properties of a New Type of Architected Interpenetrating Phase Composite Materials. Advanced Materials Technologies, 2017, 2, 1600235.	3.0	108
25	Nanoindentation measurements of Teflon AF nanosheets. Journal of Applied Polymer Science, 2015, 132, .	1.3	4
26	Effect of Cameralike Aperture in Quest for Maintaining Quasi-Constant Radiation Inside a Solar Reactor. Journal of Mechanical Design, Transactions of the ASME, 2011, 133, .	1.7	7
27	Effect of Camera-Like Aperture in Quest for Maintaining Quasi-Constant Radiation Inside a Solar Reactor. , 2010, , .		0