

# 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	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
2	Functionally graded and multi-morphology sheet TPMS lattices: Design, manufacturing, and mechanical properties. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103520.	1.5	213
3	Microarchitected Stretching-Dominated Mechanical Metamaterials with Minimal Surface Topologies. Advanced Engineering Materials, 2018, 20, 1800029.	1.6	138
4	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
5	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
6	Mechanical Properties of a New Type of Architected Interpenetrating Phase Composite Materials. Advanced Materials Technologies, 2017, 2, 1600235.	3.0	108
7	Quasi-static and dynamic compressive behaviour of sheet TPMS cellular structures. Composite Structures, 2021, 266, 113801.	3.1	104
8	The effect of architecture on the mechanical properties of cellular structures based on the IWP minimal surface. Journal of Materials Research, 2018, 33, 343-359.	1.2	94
9	3D printed spacers for organic fouling mitigation in membrane distillation. Journal of Membrane Science, 2019, 581, 331-343.	4.1	73
10	Forced Convection Computational Fluid Dynamics Analysis of Architected and Three-Dimensional Printable Heat Sinks Based on Triply Periodic Minimal Surfaces. Journal of Thermal Science and Engineering Applications, 2021, 13, .	0.8	69
11	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
12	3D printed spacers based on TPMS architectures for scaling control in membrane distillation. Journal of Membrane Science, 2019, 581, 38-49.	4.1	62
13	Mechanical behavior of polymeric selective laser sintered ligament and sheet based lattices of triply periodic minimal surface architectures. Materials and Design, 2020, 196, 109100.	3.3	61
14	Development of novel hybrid TPMS cellular lattices and their mechanical characterisation. Journal of Materials Research and Technology, 2021, 15, 1318-1329.	2.6	59
15	On Mechanical Properties of Cellular Steel Solids With Shell-Like Periodic Architectures Fabricated by Selective Laser Sintering. Journal of Engineering Materials and Technology, Transactions of the ASME, 2019, 141, .	0.8	56
16	Mechanical Response of 3D Printed Bending-Dominated Ligament-Based Triply Periodic Cellular Polymeric Solids. Journal of Materials Engineering and Performance, 2019, 28, 2316-2326.	1.2	55
17	Microstructural characterization and thermomechanical behavior of additively manufactured AlSi10Mg sheet cellular materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 791, 139714.	2.6	47
18	Antiscalcing 3D printed feed spacers via facile nanoparticle coating for membrane distillation. Water Research, 2021, 189, 116649.	5.3	25

#	ARTICLE	IF	CITATIONS
19	On Stiffness, Strength, Anisotropy, and Buckling of 3D Strut-Based Lattices with Cubic Crystal Structures. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	21
20	Impacts of feed spacer design on UF membrane cleaning efficiency. <i>Journal of Membrane Science</i> , 2020, 616, 118571.	4.1	14
21	Three-Dimensional Virtual and Printed Prototypes in Complex Congenital and Pediatric Cardiac Surgery—A Multidisciplinary Team-Learning Experience. <i>Biomolecules</i> , 2021, 11, 1703.	1.8	9
22	Effect of Camera-like Aperture in Quest for Maintaining Quasi-Constant Radiation Inside a Solar Reactor. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011, 133, .	1.7	7
23	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
24	Nanoindentation measurements of Teflon AF nanosheets. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	4
25	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
26	Biomimetic Materials for Engineering Applications. , 2022, , 25-34.		2
27	Effect of Camera-Like Aperture in Quest for Maintaining Quasi-Constant Radiation Inside a Solar Reactor. , 2010, , .		0