

# Mohsen Taheri Andani

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

2,235  
citations

394421

19  
h-index

794594

19  
g-index

24  
all docs

24  
docs citations

24  
times ranked

1691  
citing authors

#	ARTICLE	IF	CITATIONS
1	A quantitative study of stress fields ahead of a slip band blocked by a grain boundary in unalloyed magnesium. <i>Scientific Reports</i> , 2020, 10, 3084.	3.3	20
2	Damage modeling of metallic alloys made by additive manufacturing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 656-664.	5.6	23
3	Modeling the cyclic shape memory and superelasticity of selective laser melting fabricated NiTi. <i>International Journal of Mechanical Sciences</i> , 2018, 138-139, 54-61.	6.7	28
4	A study on the effect of energy input on spatter particles creation during selective laser melting process. <i>Additive Manufacturing</i> , 2018, 20, 33-43.	3.0	68
5	Shape memory response of porous NiTi shape memory alloys fabricated by selective laser melting. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 40.	3.6	76
6	Micromechanics modeling of metallic alloys 3D printed by selective laser melting. <i>Materials and Design</i> , 2018, 137, 204-213.	7.0	44
7	Mechanical and shape memory properties of porous Ni 50.1 Ti 49.9 alloys manufactured by selective laser melting. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 68, 224-231.	3.1	126
8	Texture, aging, and superelasticity of selective laser melting fabricated Ni-rich NiTi alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 686, 1-10.	5.6	139
9	Multi-scale shape memory effect recovery in NiTi alloys additive manufactured by selective laser melting and laser directed energy deposition. <i>Journal of Materials Processing Technology</i> , 2017, 250, 55-64.	6.3	99
10	Improving surface finish and wear resistance of additive manufactured nickel-titanium by ultrasonic nano-crystal surface modification. <i>Journal of Materials Processing Technology</i> , 2017, 249, 433-440.	6.3	121
11	Spatter formation in selective laser melting process using multi-laser technology. <i>Materials and Design</i> , 2017, 131, 460-469.	7.0	134
12	Independent tuning of stiffness and toughness of additively manufactured titanium-polymer composites: Simulation, fabrication, and experimental studies. <i>Journal of Materials Processing Technology</i> , 2016, 238, 22-29.	6.3	33
13	The influence of heat treatment on the thermomechanical response of Ni-rich NiTi alloys manufactured by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2016, 677, 204-210.	5.5	198
14	Achieving biocompatible stiffness in NiTi through additive manufacturing. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 2661-2671.	2.5	58
15	Fabrication of NiTi through additive manufacturing: A review. <i>Progress in Materials Science</i> , 2016, 83, 630-663.	32.8	555
16	Metals for bone implants: safety, design, and efficacy. <i>Biomanufacturing Reviews</i> , 2016, 1, 1.	4.8	112
17	Process development and characterization of additively manufactured nickel-titanium shape memory parts. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 2653-2660.	2.5	74
18	Thermomechanical characterization of Ni-rich NiTi fabricated by selective laser melting. <i>Smart Materials and Structures</i> , 2016, 25, 035005.	3.5	66

#	ARTICLE	IF	CITATIONS
19	A Modified Microplane Model Using Transformation Surfaces to Consider Loading History on Phase Transition in Shape Memory Alloys. , 2014, , .		4
20	Modeling and Validation of Additively Manufactured Porous Nitinol Implants. , 2014, , .		4
21	Additive Manufacturing of Nitinol Shape Memory Alloys to Overcome Challenges in Conventional Nitinol Fabrication. , 2014, , .		23
22	Metals for bone implants. Part 1. Powder metallurgy and implant rendering. Acta Biomaterialia, 2014, 10, 4058-4070.	8.3	215
23	An Investigation of Effective Process Parameters on Phase Transformation Temperature of Nitinol Manufactured by Selective Laser Melting. , 2014, , .		15
24	A three-dimensional geometrical model for the microstructure of additively manufactured metals. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072210939.	1.1	0