

# N Shamsaei

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

4,180  
citations

201674

27  
h-index

197818

49  
g-index

50  
all docs

50  
docs citations

50  
times ranked

3110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Additively manufactured Haynes 282: effect of unimodal vs. bimodal $\beta$ -microstructure on mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142234.	5.6	21
2	Microstructure and Deformation Behavior of Additively Manufactured 17-4 Stainless Steel: Laser Powder Bed Fusion vs. Laser Powder Directed Energy Deposition. <i>Jom</i> , 2022, 74, 1136-1148.	1.9	8
3	Bending properties of additively manufactured commercially pure titanium (CPTi) limited contact dynamic compression plate (LC-DCP) constructs: Effect of surface treatment. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105042.	3.1	4
4	Correlation between tensile properties, microstructure, and processing routes of an Al-Cu-Mg-Ag-TiB <sub>2</sub> (A205) alloy: Additive manufacturing and casting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 841, 142989.	5.6	48
5	Synergistic effect of microstructure and defects on the initiation of fatigue cracks in additively manufactured Inconel 718. <i>International Journal of Fatigue</i> , 2022, 162, 107002.	5.7	18
6	Fatigue failure mechanisms for AlSi10Mg manufactured by L-PBF under axial and torsional loads: The role of defects and residual stresses. <i>International Journal of Fatigue</i> , 2022, 162, 106903.	5.7	29
7	A comparative investigation on the microstructure and mechanical properties of additively manufactured aluminum alloys. <i>International Journal of Fatigue</i> , 2021, 146, 106165.	5.7	67
8	Spatial inhomogeneity of build defects across the build plate in laser powder bed fusion. <i>Additive Manufacturing</i> , 2021, 47, 102333.	3.0	8
9	Fatigue of additive manufactured Ti-6Al-4V, Part II: The relationship between microstructure, material cyclic properties, and component performance. <i>International Journal of Fatigue</i> , 2020, 132, 105363.	5.7	152
10	Additive manufacturing of fatigue resistant austenitic stainless steels by understanding process-structure-property relationships. <i>Materials Research Letters</i> , 2020, 8, 8-15.	8.7	46
11	Fatigue of additive manufactured Ti-6Al-4V, Part I: The effects of powder feedstock, manufacturing, and post-process conditions on the resulting microstructure and defects. <i>International Journal of Fatigue</i> , 2020, 132, 105358.	5.7	132
12	Effects of Postprocess Thermal Treatments on Static and Cyclic Deformation Behavior of Additively Manufactured Austenitic Stainless Steel. <i>Jom</i> , 2020, 72, 1355-1365.	1.9	6
13	Effect of alloying elements on the $\beta$ -antiphase boundary energy in Ni-base superalloys. <i>Intermetallics</i> , 2020, 117, 106670.	3.9	49
14	Multiaxial high-cycle fatigue life prediction under random spectrum loadings. <i>International Journal of Fatigue</i> , 2020, 134, 105462.	5.7	32
15	Fatigue behavior and modeling for additive manufactured 304L stainless steel: The effect of surface roughness. <i>International Journal of Fatigue</i> , 2020, 141, 105856.	5.7	70
16	Fatigue behavior of additively manufactured 17-4 PH stainless steel: The effects of part location and powder re-use. <i>Additive Manufacturing</i> , 2020, 36, 101398.	3.0	24
17	Dexamethasone eluting 3D printed metal devices for bone injuries. <i>Therapeutic Delivery</i> , 2020, 11, 373-386.	2.2	10
18	Effect of heat treatments on pore morphology and microstructure of laser additive manufactured parts. <i>Material Design and Processing Communications</i> , 2019, 1, e29.	0.9	12

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19	Tribological behavior of 17â€‘4â€‘PH stainless steel fabricated by traditional manufacturing and laser-based additive manufacturing methods. <i>Wear</i> , 2019, 440-441, 203100.	3.1	23
20	Fatigue life estimation of additive manufactured parts in the asâ€‘built surface condition. <i>Material Design and Processing Communications</i> , 2019, 1, e36.	0.9	26
21	Towards predicting differences in fatigue performance of laser powder bed fused Ti-6Al-4V coupons from the same build. <i>International Journal of Fatigue</i> , 2019, 126, 284-296.	5.7	38
22	Fatigue behavior of additive manufactured 316L stainless steel parts: Effects of layer orientation and surface roughness. <i>Additive Manufacturing</i> , 2019, 28, 23-38.	3.0	92
23	Fatigue behaviour of additive manufactured materials: An overview of some recent experimental studies on $\text{Ti-6Al-4V}$ considering various processing and loading direction effects. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 991-1009.	3.4	130
24	Powder Recycling Effects on the Tensile and Fatigue Behavior of Additively Manufactured Ti-6Al-4V Parts. <i>Jom</i> , 2019, 71, 963-973.	1.9	89
25	Investigation of the mechanisms by which hot isostatic pressing improves the fatigue performance of powder bed fused Ti-6Al-4V. <i>International Journal of Fatigue</i> , 2019, 120, 342-352.	5.7	68
26	Tribocorrosion behavior of additive manufactured Ti-6Al-4V biomedical alloy. <i>Tribology International</i> , 2018, 119, 381-388.	5.9	66
27	Depth-sensing time-dependent response of additively manufactured Ti-6Al-4V alloy. <i>Additive Manufacturing</i> , 2018, 24, 37-46.	3.0	17
28	Load sequence effects and variable amplitude fatigue of superelastic NiTi. <i>International Journal of Mechanical Sciences</i> , 2018, 148, 307-315.	6.7	18
29	A numerical and experimental investigation of convective heat transfer during laser-powder bed fusion. <i>Additive Manufacturing</i> , 2018, 22, 729-745.	3.0	26
30	Overview on Microstructure- and Defect-Sensitive Fatigue Modeling of Additively Manufactured Materials. <i>Jom</i> , 2018, 70, 1853-1862.	1.9	48
31	Effects of building orientation and heat treatment on fatigue behavior of selective laser melted 17-4 PH stainless steel. <i>International Journal of Fatigue</i> , 2017, 94, 218-235.	5.7	413
32	Cyclic strain rate effect on martensitic transformation and fatigue behaviour of an austenitic stainless steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 2080-2091.	3.4	35
33	Fatigue Behavior and Modeling of Additively Manufactured Ti-6Al-4V Including Interlayer Time Interval Effects. <i>Jom</i> , 2017, 69, 2698-2705.	1.9	25
34	Energy harvesting via thermo-piezoelectric transduction within a heated capillary. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	13
35	Fatigue Modeling for Superelastic NiTi Considering Cyclic Deformation and Load Ratio Effects. <i>Shape Memory and Superelasticity</i> , 2017, 3, 250-263.	2.2	15
36	Strain-based fatigue data for $\text{Ti-6Al-4V}$ ELI under fully-reversed and mean strain loads. <i>Data in Brief</i> , 2016, 7, 12-15.	1.0	18

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37	Data demonstrating the effects of build orientation and heat treatment on fatigue behavior of selective laser melted 17â€“4 PH stainless steel. Data in Brief, 2016, 7, 89-92.	1.0	16
38	Transferability of the twoâ€“parameter fracture criterion for 2219 aluminium alloy cracked configurations. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 335-345.	3.4	6
39	Data related to cyclic deformation and fatigue behavior of direct laser deposited Tiâ€“6Alâ€“4V with and without heat treatment. Data in Brief, 2016, 6, 970-973.	1.0	3
40	Fatigue life predictions for irradiated stainless steels considering void swellings effects. Engineering Failure Analysis, 2016, 59, 79-98.	4.0	3
41	Cyclic deformation and fatigue behavior of polyether ether ketone (PEEK). International Journal of Fatigue, 2016, 82, 411-427.	5.7	52
42	Multiaxial fatigue modeling for Nitinol shape memory alloys under in-phase loading. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 55, 236-249.	3.1	30
43	Mean Strain Effects on the Fatigue Behavior of Superelastic Nitinol Alloys: An Experimental Investigation. Procedia Engineering, 2015, 133, 646-654.	1.2	30
44	Fatigue of Nitinol: The state-of-the-art and ongoing challenges. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 50, 228-254.	3.1	155
45	An overview of Direct Laser Deposition for additive manufacturing; Part II: Mechanical behavior, process parameter optimization and control. Additive Manufacturing, 2015, 8, 12-35.	3.0	695
46	Effects of process time interval and heat treatment on the mechanical and microstructural properties of direct laser deposited 316L stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 644, 171-183.	5.6	466
47	An overview of Direct Laser Deposition for additive manufacturing; Part I: Transport phenomena, modeling and diagnostics. Additive Manufacturing, 2015, 8, 36-62.	3.0	694
48	Multiaxial life predictions in absence of any fatigue properties. International Journal of Fatigue, 2014, 67, 62-72.	5.7	33
49	Effect of hardness on multiaxial fatigue behaviour and some simple approximations for steels. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 631-646.	3.4	101