Hooyar Attar

List of Publications by Citations

31 papers	3,638 citations	27 h-index	32 g-index
32 ext. papers	4,277 ext. citations	5 avg, IF	5.89 L-index

#	Paper	IF	Citations
31	Manufacture by selective laser melting and mechanical behavior of commercially pure titanium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2014**, 593, 170-177	5.3	448
30	Selective Laser Melting of Titanium Alloys and Titanium Matrix Composites for Biomedical Applications: A Review . *Advanced Engineering Materials*, **2016**, 18, 463-475	3.5	415
29	Selective laser melting of in situ titanium□titanium boride composites: Processing, microstructure and mechanical properties. *Acta Materialia*, **2014**, 76, 13-22	8.4	375
28	Mechanical behavior of porous commercially pure Ti and Ti□TiB composite materials manufactured by selective laser melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 625, 350-356	5.3	185
27	Nanoindentation and wear properties of Ti and Ti-TiB composite materials produced by selective laser melting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 688, 20-26	5.3	184
26	Recent developments and opportunities in additive manufacturing of titanium-based matrix composites: A review. *International Journal of Machine Tools and Manufacture*, **2018**, 133, 85-102	9.4	179
25	Comparison of wear properties of commercially pure titanium prepared by selective laser melting and casting processes. *Materials Letters*, **2015**, 142, 38-41	3.3	177
24	Effect of Powder Particle Shape on the Properties of In Situ Ti□TiB Composite Materials Produced by Selective Laser Melting. *Journal of Materials Science and Technology*, **2015**, 31, 1001-1005	9.1	156
23	Additive manufacturing of Cu□10Sn bronze. *Materials Letters*, **2015**, 156, 202-204	3.3	150
22	Comparative study of commercially pure titanium produced by laser engineered net shaping, selective laser melting and casting processes. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 705, 385-393	5.3	135
21	Corrosion Behaviour of Selective Laser Melted Ti-TiB Biocomposite in Simulated Body Fluid. *Electrochimica Acta*, **2017**, 232, 89-97	6.7	129
20	Evaluation of mechanical and wear properties of TixNb7Fe alloys designed for biomedical applications. *Materials and Design*, **2016**, 111, 592-599	8.1	129
19	Production of high strength Al85Nd8Ni5Co2 alloy by selective laser melting. *Additive Manufacturing*, **2015**, 6, 1-5	6.1	101
18	Comparative study of microstructures and mechanical properties of in situ Ti□TiB composites produced by selective laser melting, powder metallurgy, and casting technologies. *Journal of Materials Research*, **2014**, 29, 1941-1950	2.5	96
17	Mechanical properties and biocompatibility of porous titanium scaffolds for bone tissue engineering. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 75, 169-174	4.1	89
16	Processing of Al□12Si□NM composites by selective laser melting and evaluation of compressive and wear properties. *Journal of Materials Research*, **2016**, 31, 55-65	2.5	84
15	Composition optimization of low modulus and high-strength TiNb-based alloys for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 65, 866-871	4.1	77

14	Additive manufacturing of low-cost porous titanium-based composites for biomedical applications: Advantages, challenges and opinion for future development. *Journal of Alloys and Compounds*, **2020**, 827, 154263	5.7	69
13	Review on manufacture by selective laser melting and properties of titanium based materials for biomedical applications. *Materials Technology*, **2016**, 31, 66-76	2.1	63
12	Evaluation of the mechanical and wear properties of titanium produced by three different additive manufacturing methods for biomedical application. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 760, 339-345	5.3	59
11	Investigation of the structure and mechanical properties of additively manufactured Ti-6Al-4V biomedical scaffolds designed with a Schwartz primitive unit-cell. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 745, 195-202	5.3	56
10	High strength beta titanium alloys: New design approach. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 628, 297-302	5.3	53
9	Evaluation of the mechanical compatibility of additively manufactured porous Ti-25Ta alloy for load-bearing implant applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 97, 149-158	4.1	48
8	Microstructure, phase composition and mechanical properties of new, low cost Ti-Mn-Nb alloys for biomedical applications. *Journal of Alloys and Compounds*, **2019**, 787, 570-577	5.7	37
7	Metallurgical features of direct laser-deposited Ti6Al4V with trace boron. *Journal of Manufacturing Processes*, **2018**, 35, 651-656	5	30
6	Finite element analysis of porous commercially pure titanium for biomedical implant application. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2018**, 725, 43-50	5.3	28
5	Phase formation, microstructure and deformation behavior of heavily alloyed TiNb- and TiV-based titanium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 733, 80-86	5.3	28
4	Influence of surface crystallinity on the surface roughness of different ceramic glazes. *Materials Characterization*, **2016**, 118, 570-574	3.9	22
3	Microstructural evolution and mechanical properties of bulk and porous low-cost Ti□Mo□Fe alloys produced by powder metallurgy. *Journal of Alloys and Compounds*, **2021**, 853, 156768	5.7	19
2	Surface and morphological modification of selectively laser melted titanium lattices using a chemical post treatment. *Surface and Coatings Technology*, **2020**, 393, 125794	4.4	12
1	Insights into Machining of a □Titanium Biomedical Alloy from Chip Microstructures. *Metals*, **2018**, 8, 710	2.3	5