

Shoujin Sun

List of Publications by Year in descending order

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54
papers

3,937
citations

236925

25
h-index

206112

48
g-index

54
all docs

54
docs citations

54
times ranked

3211
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties and deformation mechanisms of martensitic Ti6Al4V alloy processed by laser powder bed fusion and water quenching. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 839, 142817.	5.6	14
2	Machinability Analysis of Finish-Turning Operations for Ti6Al4V Tubes Fabricated by Selective Laser Melting. <i>Metals</i> , 2022, 12, 806.	2.3	7
3	Challenges in laser-assisted milling of titanium alloys. <i>International Journal of Extreme Manufacturing</i> , 2021, 3, 015001.	12.7	20
4	Exploring Macroporosity of Additively Manufactured Titanium Metamaterials for Bone Regeneration with Quality by Design: A Systematic Literature Review. <i>Materials</i> , 2020, 13, 4794.	2.9	22
5	Chip formation characteristics of selective laser melted Ti-6Al-4V. <i>Australian Journal of Mechanical Engineering</i> , 2019, 17, 109-126.	2.1	19
6	Metal Alloys for Fusion-Based Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2018, 20, 1700952.	3.5	126
7	Effect of tool wear evolution on chip formation during dry machining of Ti-6Al-4V alloy. <i>International Journal of Machine Tools and Manufacture</i> , 2018, 126, 13-17.	13.4	47
8	Insights into Machining of a β Titanium Biomedical Alloy from Chip Microstructures. <i>Metals</i> , 2018, 8, 710.	2.3	10
9	Effect of tool wear on chip formation during dry machining of Ti-6Al-4V alloy, part 1: Effect of gradual tool wear evolution. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 1559-1574.	2.4	21
10	Effect of tool wear on chip formation during dry machining of Ti-6Al-4V alloy, part 2: Effect of tool failure modes. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 1575-1586.	2.4	16
11	Wear mechanisms and performance of abrasively ground polycrystalline diamond tools of different diamond grains in machining titanium alloy. <i>Journal of Manufacturing Processes</i> , 2017, 29, 320-331.	5.9	43
12	Wear Mechanism of pcd tools of different grain sizes manufactured by conventionally abrasive grinding and electrical discharge grinding. <i>Materials Today: Proceedings</i> , 2017, 4, 5248-5258.	1.8	6
13	A case-study on the mechanism of flank wear during laser-assisted machining of a titanium alloy. <i>International Journal of Machining and Machinability of Materials</i> , 2017, 19, 538.	0.1	6
14	Deformation and failure behaviour of Ti-6Al-4V lattice structures manufactured by selective laser melting (SLM). <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 1391.	3.0	83
15	Microstructure and hardness characterisation of laser coatings produced with a mixture of AISI 420 stainless steel and Fe-C-Cr-Nb-B-Mo steel alloy powders. <i>Surface and Coatings Technology</i> , 2016, 296, 76-87.	4.8	20
16	Experimental study on quality of PCD tools machined by different electric discharge grinding processes. <i>Cogent Engineering</i> , 2016, 3, 1228234.	2.2	11
17	Performance and wear analysis of polycrystalline diamond (PCD) tools manufactured with different methods in turning titanium alloy Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 825-841.	3.0	32
18	Tool wear mechanisms involved in crater formation on uncoated carbide tool when machining Ti6Al4V alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 1457-1465.	3.0	58

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19	Deformation and failure behaviour of Ti-6Al-4V lattice structures manufactured by selective laser melting (SLM). , 2016, 84, 1391.		1
20	Effect of cryogenic compressed air on the evolution of cutting force and tool wear during machining of Ti-6Al-4V alloy. Journal of Materials Processing Technology, 2015, 221, 243-254.	6.3	80
21	Additive manufacturing of strong and ductile Ti-6Al-4V by selective laser melting via in situ martensite decomposition. Acta Materialia, 2015, 85, 74-84.	7.9	897
22	Mechanical properties of selective laser melted Ti-6Al-4V with different layer thickness. , 2014, , .		1
23	Evolution of tool wear and its effect on cutting forces during dry machining of Ti-6Al-4V alloy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 191-202.	2.4	63
24	Comparison of Endmill Tool Coating Performance during Machining of Ti6Al4V Alloy. Advanced Materials Research, 2014, 974, 126-131.	0.3	4
25	Laser Assisted Machining of Ti10V2Fe3Al and Ti6Cr5Mo5V4Al β Titanium Alloys. Advanced Materials Research, 2014, 974, 121-125.	0.3	3
26	A study on laser assisted machining of Ti10V2Fe3Al alloy with varying laser power. International Journal of Advanced Manufacturing Technology, 2014, 74, 219-224.	3.0	37
27	Numerical modeling of laser assisted machining of a beta titanium alloy. Computational Materials Science, 2014, 92, 149-156.	3.0	30
28	Experimental investigation of laser assisted machining of AZ91 magnesium alloy. International Journal of Precision Engineering and Manufacturing, 2013, 14, 1263-1265.	2.2	22
29	The response of the high strength Ti-10V-2Fe-3Al beta titanium alloy to laser assisted cutting. Precision Engineering, 2013, 37, 461-472.	3.4	41
30	Laser Beam Machining. , 2013, , 35-96.		16
31	An investigation of cutting forces and cutting temperatures during laser-assisted machining of the Ti-6Cr-5Mo-5V-4Al beta titanium alloy. International Journal of Machine Tools and Manufacture, 2012, 63, 58-69.	13.4	126
32	The effect of laser power on the machinability of the Ti-6Cr-5Mo-5V-4Al beta titanium alloy during laser assisted machining. International Journal of Machine Tools and Manufacture, 2012, 63, 41-43.	13.4	59
33	Compressive deformation behavior of a near-beta titanium alloy. Materials & Design, 2012, 34, 739-745.	5.1	41
34	New observations on tool life, cutting forces and chip morphology in cryogenic machining Ti-6Al-4V. International Journal of Machine Tools and Manufacture, 2011, 51, 500-511.	13.4	302
35	Advances in Metallic Materials Processing. Advances in Materials Science and Engineering, 2011, 2011, 1-2.	1.8	2
36	Experimental investigation and 3D finite element prediction of the heat affected zone during laser assisted machining of Ti6Al4V alloy. Journal of Materials Processing Technology, 2010, 210, 2215-2222.	6.3	216

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37	Thermally enhanced machining of hard-to-machine materials—A review. International Journal of Machine Tools and Manufacture, 2010, 50, 663-680.	13.4	252
38	Machining Ti-6Al-4V alloy with cryogenic compressed air cooling. International Journal of Machine Tools and Manufacture, 2010, 50, 933-942.	13.4	142
39	Laser cladding repair of turbine blades in power plants: from research to commercialisation. International Heat Treatment and Surface Engineering, 2009, 3, 105-114.	0.2	43
40	Characteristics of cutting forces and chip formation in machining of titanium alloys. International Journal of Machine Tools and Manufacture, 2009, 49, 561-568.	13.4	374
41	Parametric Investigation of Laser-Assisted Machining of Commercially Pure Titanium. Advanced Engineering Materials, 2008, 10, 565-572.	3.5	77
42	Effect of laser beam on the chip formation in machining of titanium alloys. , 2008, , .		0
43	Melt pool temperature and its effect on clad formation in pulsed Nd:yttrium-aluminum-garnet laser cladding of Stellite 6. Journal of Laser Applications, 2007, 19, 32-40.	1.7	5
44	The influence of stellite 6 particle size on the inter-track porosity in multi-track cladding. Surface and Coatings Technology, 2006, 201, 998-1005.	4.8	25
45	Parametric investigation of pulsed Nd: YAG laser cladding of stellite 6 on stainless steel. Surface and Coatings Technology, 2005, 194, 225-231.	4.8	159
46	Properties of thermomechanically processed dual-phase steels containing fibrous martensite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 335, 298-308.	5.6	147
47	Fabrication and mechanical properties of steel-steel composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 300, 135-141.	5.6	5
48	Interfacial properties in steel-steel composite materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 318, 320-327.	5.6	6
49	Effect of Si on the microstructure and mechanical properties of as drawn Cu-15Cr in situ composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 303, 187-196.	5.6	20
50	TEM Observation of Cr Fibres in Cu-15Cr-0.5Fe In Situ Composites. Materials Transactions, JIM, 2000, 41, 613-616.	0.9	6
51	Manganese partitioning in dual-phase steel during annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 276, 167-174.	5.6	63
52	The preparation of C/C-SiC nanomatrix composites by chemical vapour infiltration. Journal of Materials Science Letters, 1993, 12, 886-888.	0.5	13
53	Design of Exotic Materials Machining System. Advanced Materials Research, 0, 633, 36-46.	0.3	1
54	High-Value SLM Aerospace Components: From Design to Manufacture. Advanced Materials Research, 0, 633, 135-147.	0.3	97