

Bey Vrancken

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24
papers

2,707
citations

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h-index

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g-index

24
ext. papers

3,294
ext. citations

6.3
avg, IF

5.36
L-index

#	Paper	IF	Citations
24	Heat treatment of Ti6Al4V produced by Selective Laser Melting: Microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2012 , 541, 177-185	5.7	989
23	Microstructure and mechanical properties of a novel Titanium metallic composite by selective laser melting. <i>Acta Materialia</i> , 2014 , 68, 150-158	8.4	318
22	Effects of build orientation and heat treatment on the microstructure and mechanical properties of selective laser melted Ti6Al4V lattice structures. <i>Additive Manufacturing</i> , 2015 , 5, 77-84	6.1	262
21	Changing the alloy composition of Al7075 for better processability by selective laser melting. <i>Journal of Materials Processing Technology</i> , 2016 , 238, 437-445	5.3	257
20	Residual stress via the contour method in compact tension specimens produced via selective laser melting. <i>Scripta Materialia</i> , 2014 , 87, 29-32	5.6	146
19	Influence of Powder Bed Preheating on Microstructure and Mechanical Properties of H13 Tool Steel SLM Parts. <i>Physics Procedia</i> , 2016 , 83, 882-890		139
18	Selective Laser Melting of Crack-Free High Density M2 High Speed Steel Parts by Baseplate Preheating. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2014 , 136,	3.3	134
17	Selective laser melting of tungsten and tungsten alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018 , 72, 27-32	4.1	100
16	Texture and anisotropy in selective laser melting of NiTi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 650, 225-232	5.3	99
15	Selective laser melting produced layer-structured NiTi shape memory alloys with high damping properties and Elinvar effect. <i>Scripta Materialia</i> , 2018 , 146, 246-250	5.6	68
14	Analysis of laser-induced microcracking in tungsten under additive manufacturing conditions: Experiment and simulation. <i>Acta Materialia</i> , 2020 , 194, 464-472	8.4	39
13	Directional and oscillating residual stress on the mesoscale in additively manufactured Ti-6Al-4V. <i>Acta Materialia</i> , 2019 , 168, 299-308	8.4	36
12	Reducing residual stress by selective large-area diode surface heating during laser powder bed fusion additive manufacturing. <i>Additive Manufacturing</i> , 2019 , 28, 228-235	6.1	32
11	Fatigue of Ti6Al4V Structural Health Monitoring Systems Produced by Selective Laser Melting. <i>Materials</i> , 2016 , 9,	3.5	18
10	Selective Laser Melting process optimization of TiMoTiC metal matrix composites. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 221-224	4.9	17
9	In-situ characterization of tungsten microcracking in Selective Laser Melting. <i>Procedia CIRP</i> , 2018 , 74, 107-110	1.8	17
8	Additively manufactured metals for medical applications 2018 , 261-309		12

7	Additive Manufacturing of Metals via Selective Laser Melting: Process Aspects and Material Developments 2015 , 69-99		11
6	Preheating of Selective Laser Melted Ti6Al4V: Microstructure and Mechanical Properties 2016 , 1269-1277		5
5	Toward multiscale simulations of tailored microstructure formation in metal additive manufacturing. <i>Materials Today</i> , 2021 ,	21.8	3
4	Microcrack mitigation during laser scanning of tungsten via preheating and alloying strategies. <i>Additive Manufacturing</i> , 2021 , 46, 102158	6.1	2
3	Residual stress analysis of in situ surface layer heating effects on laser powder bed fusion of 316L stainless steel. <i>Additive Manufacturing</i> , 2021 , 47, 102252	6.1	2
2	Heat treatment possibilities for an in situ Ti-TiC composite made by laser powder bed fusion. <i>Additive Manufacturing</i> , 2020 , 36, 101577	6.1	1
1	On the Fatigue Crack Growth Performance of Ti6Al4V Manufactured by Laser Metal Deposition 2016 , 1453-1457		