

Swee Leong Sing

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56 papers	4,836 citations	30 h-index	64 g-index
64 ext. papers	6,224 ext. citations	6.4 avg, IF	6.62 L-index

#	Paper	IF	Citations
56	Review of selective laser melting: Materials and applications. <i>Applied Physics Reviews</i> , 2015 , 2, 041101	17.3	1001
55	Laser and electron-beam powder-bed additive manufacturing of metallic implants: A review on processes, materials and designs. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 369-85	3.8	489
54	Numerical investigation and an effective modelling on the Selective Laser Melting (SLM) process with aluminium alloy 6061. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 80, 288-300	4.9	256
53	Characterization of mechanical properties and fracture mode of additively manufactured carbon fiber and glass fiber reinforced thermoplastics. <i>Materials and Design</i> , 2018 , 137, 79-89	8.1	238
52	Selective laser melting of titanium alloy with 50 wt% tantalum: Microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2016 , 660, 461-470	5.7	238
51	Particle-reinforced metal matrix nanocomposites fabricated by selective laser melting: A state of the art review. <i>Progress in Materials Science</i> , 2019 , 104, 330-379	42.2	188
50	Direct selective laser sintering and melting of ceramics: a review. <i>Rapid Prototyping Journal</i> , 2017 , 23, 611-623	3.8	187
49	Selective laser melting of lattice structures: A statistical approach to manufacturability and mechanical behavior. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018 , 49, 170-180	9.2	174
48	Interfacial characterization of SLM parts in multi-material processing: Metallurgical diffusion between 316L stainless steel and C18400 copper alloy. <i>Materials Characterization</i> , 2014 , 94, 116-125	3.9	174
47	Additive manufacturing in unmanned aerial vehicles (UAVs): Challenges and potential. <i>Aerospace Science and Technology</i> , 2017 , 63, 140-151	4.9	168
46	Influence of re-melting on surface roughness and porosity of AlSi10Mg parts fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 574-581	5.7	146
45	Process-Structure-Properties in Polymer Additive Manufacturing via Material Extrusion: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2020 , 45, 113-133	10.1	133
44	Interfacial characterization of SLM parts in multi-material processing: Intermetallic phase formation between AlSi10Mg and C18400 copper alloy. <i>Materials Characterization</i> , 2015 , 107, 220-227	3.9	115
43	Material jetting additive manufacturing: An experimental study using designed metrological benchmarks. <i>Precision Engineering</i> , 2017 , 50, 275-285	2.9	103
42	A review on machine learning in 3D printing: applications, potential, and challenges. <i>Artificial Intelligence Review</i> , 2021 , 54, 63-94	9.7	102
41	Selective laser melting of titanium alloy with 50 wt% tantalum: Effect of laser process parameters on part quality. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018 , 77, 120-127	4.1	93
40	Microstructure modelling for metallic additive manufacturing: a review. <i>Virtual and Physical Prototyping</i> , 2020 , 15, 87-105	10.1	93

39	Characterization of Titanium Lattice Structures Fabricated by Selective Laser Melting Using an Adapted Compressive Test Method. <i>Experimental Mechanics</i> , 2016 , 56, 735-748	2.6	87
38	Laser powder bed fusion for metal additive manufacturing: perspectives on recent developments. <i>Virtual and Physical Prototyping</i> , 2020 , 15, 359-370	10.1	81
37	Microstructure evolution and mechanical property response via 3D printing parameter development of AlSiC alloy. <i>Virtual and Physical Prototyping</i> , 2020 , 15, 120-129	10.1	76
36	3D bioprinting processes: A perspective on classification and terminology. <i>International Journal of Bioprinting</i> , 2018 , 4, 151	6.2	69
35	Emerging metallic systems for additive manufacturing: In-situ alloying and multi-metal processing in laser powder bed fusion. <i>Progress in Materials Science</i> , 2021 , 119, 100795	42.2	67
34	Laser powder bed fusion of titanium-tantalum alloys: Compositions and designs for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 108, 103775	4.1	59
33	Effect of solution heat treatment on microstructure and mechanical properties of laser powder bed fusion produced cobalt-28chromium-6molybdenum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 769, 138511	5.3	56
32	Selective Laser Melting of aluminium alloy using a uniform beam profile. <i>Virtual and Physical Prototyping</i> , 2014 , 9, 11-16	10.1	47
31	Perspectives of using machine learning in laser powder bed fusion for metal additive manufacturing. <i>Virtual and Physical Prototyping</i> , 2021 , 16, 372-386	10.1	39
30	A review of 3D printing processes and materials for soft robotics. <i>Rapid Prototyping Journal</i> , 2020 , 26, 1345-1361	3.8	37
29	Crack monitoring and failure investigation on inkjet printed sandwich structures under quasi-static indentation test. <i>Materials and Design</i> , 2018 , 137, 140-151	8.1	32
28	Resolving the porosity-unmelted inclusion dilemma during in-situ alloying of Ti34Nb via laser powder bed fusion. <i>Acta Materialia</i> , 2021 , 204, 116522	8.4	32
27	Investigation of Quasi-Static Indentation Response of Inkjet Printed Sandwich Structures under Various Indenter Geometries. <i>Materials</i> , 2017 , 10,	3.5	31
26	Fabrication of titanium based biphasic scaffold using selective laser melting and collagen immersion. <i>International Journal of Bioprinting</i> , 2017 , 3,	6.2	30
25	Bioprinting in cardiovascular tissue engineering: a review. <i>International Journal of Bioprinting</i> , 2016 , 2,	6.2	26
24	3D printing of metals in rapid prototyping of biomaterials: Techniques in additive manufacturing 2020 , 17-40		21
23	Silicone 3D Printing: Process Optimization, Product Biocompatibility, and Reliability of Silicone Meniscus Implants. <i>3D Printing and Additive Manufacturing</i> , 2019 , 6, 319-332	4	21
22	3D Direct Printing of Silicone Meniscus Implant Using a Novel Heat-Cured Extrusion-Based Printer. <i>Polymers</i> , 2020 , 12,	4.5	17

21	Additive manufacturing of multiple materials by selective laser melting: Ti-alloy to stainless steel via a Cu-alloy interlayer. <i>Additive Manufacturing</i> , 2020 , 31, 100970	6.1	17
20	Machine learning for 3D printed multi-materials tissue-mimicking anatomical models. <i>Materials and Design</i> , 2021 , 211, 110125	8.1	14
19	Perspectives on Additive Manufacturing Enabled Beta-Titanium Alloys for Biomedical Applications.. <i>International Journal of Bioprinting</i> , 2022 , 8, 478	6.2	12
18	Bioprinting of Multimaterials with Computer-aided Design/Computer-aided Manufacturing. <i>International Journal of Bioprinting</i> , 2020 , 6, 245	6.2	11
17	3D Printed Silicone Meniscus Implants: Influence of the 3D Printing Process on Properties of Silicone Implants. <i>Polymers</i> , 2020 , 12,	4.5	11
16	Fabrication and Characterization of 3D Bioprinted Triple-layered Human Alveolar Lung Models. <i>International Journal of Bioprinting</i> , 2021 , 7, 332	6.2	8
15	Selective Laser Melting of Ti42Nb Composite Powder and the Effect of Laser Re-Melting. <i>Key Engineering Materials</i> , 2019 , 801, 270-275	0.4	7
14	Manufacturability and mechanical testing considerations of metallic scaffolds fabricated using selective laser melting: a review 2016 ,		5
13	Concepts of Selective Laser Melting for Orthopaedic Implants. <i>Springer Theses</i> , 2019 , 9-36	0.1	4
12	Use of Fumed Silica Nanostructured Additives in Selective Laser Melting and Fabrication of Steel Matrix Nanocomposites.. <i>Materials</i> , 2022 , 15,	3.5	4
11	The role of block-type support structure design on the thermal field and deformation in components fabricated by Laser Powder Bed Fusion. <i>Additive Manufacturing</i> , 2022 , 51, 102644	6.1	3
10	Fabrication of titanium based biphasic scaffold using selective laser melting and collagen immersion. <i>International Journal of Bioprinting</i> , 2017 , 3, 007	6.2	2
9	Selective Laser Melting of Novel Titanium-Tantalum Alloy as Orthopaedic Biomaterial. <i>Springer Theses</i> , 2019 ,	0.1	2
8	Preliminary Investigation on the Geometric Accuracy of 3D Printed Dental Implant Using a Monkey Maxilla Incisor Model.. <i>International Journal of Bioprinting</i> , 2022 , 8, 476	6.2	2
7	Scaffolds for retinal repairs 2019 , 673-691		1
6	Classical Lamination Theory applied on parts produced by Selective Laser Melting 2013 , 77-82		1
5	Introduction to Additive Manufacturing for Orthopaedic Implants. <i>Springer Theses</i> , 2019 , 1-8	0.1	1
4	Formation of Titanium-Tantalum Alloy Using Selective Laser Melting. <i>Springer Theses</i> , 2019 , 37-47	0.1	1

- 3 Characterisation of Titanium-Tantalum Lattice Structures Fabricated by Selective Laser Melting. *Springer Theses*, **2019**, 87-95 O.1
- 2 Statistical Modelling of Selective Laser Melting of Cellular Lattice Structures. *Springer Theses*, **2019**, 65-85.1
- 1 Characterisation of Selective Laser Melted Titanium-Tantalum Alloy. *Springer Theses*, **2019**, 49-63 O.1