Timothy B Sercombe

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Comparison of microstructure and mechanical behavior of Ti-35Nb manufactured by laser powder bed fusion from elemental powder mixture and prealloyed powder. Journal of Materials Science and Technology, 2022, 105, 1-16.	5.6	36
2	Bioactivity and biodegradability of high temperature sintered 58S ceramics. Journal of the European Ceramic Society, 2022, 42, 3614-3623.	2.8	7
3	Microstructural homogeneity and mechanical behavior of a selective laser melted Ti-35Nb alloy produced from an elemental powder mixture. Journal of Materials Science and Technology, 2021, 61, 221-233.	5.6	67
4	Characterization of Cryogenic Material Properties of 3-D-Printed Superconducting Niobium Using a 3-D Lumped Element Microwave Cavity. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-7.	2.4	3
5	Effect of low temperature crystallization on 58S bioactive glass sintering and compressive strength. Ceramics International, 2021, 47, 30349-30357.	2.3	5
6	Enhanced corrosion resistance of Ti-5 wt.% TiN composite compared to commercial pure Ti produced by selective laser melting in HCl solution. Journal of Alloys and Compounds, 2020, 820, 153422.	2.8	39
7	Phase separation and properties of Cu-Fe-Cr-Si-C immiscible nanocomposite by laser induction hybrid cladding. Journal of Alloys and Compounds, 2018, 741, 482-488.	2.8	17
8	Mechanical behaviour of alginate-gelatin hydrogels for 3D bioprinting. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 150-157.	1.5	262
9	Characterisation of hyaluronic acid methylcellulose hydrogels for 3D bioprinting. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 389-399.	1.5	125
10	Improved Corrosion Resistance on Selective Laser Melting Produced Ti-5Cu Alloy after Heat Treatment. ACS Biomaterials Science and Engineering, 2018, 4, 2633-2642.	2.6	85
11	Prediction of ceramic fracture with normal distribution pertinent to grain size. Acta Materialia, 2018, 145, 41-48.	3.8	54
12	On the Breakdown of SiC during the Selective Laser Melting of Aluminum Matrix Composites. Advanced Engineering Materials, 2017, 19, 1600835.	1.6	46
13	Antibacterial Titanium Produced Using Selective Laser Melting. Jom, 2017, 69, 2719-2724.	0.9	21
14	Investigation of Interfacial Reaction Products and Stress Distribution in Selective Laser Melted Al12Si/SiC Composite Using Confocal Raman Microscopy. Advanced Engineering Materials, 2016, 18, 1337-1341.	1.6	32
15	Antimicrobial Cu-bearing stainless steel scaffolds. Materials Science and Engineering C, 2016, 68, 519-522.	3.8	39
16	Electron Beam Melted Beta-type Ti–24Nb–4Zr–8Sn Porous Structures With High Strength-to-Modulus Ratio. Journal of Materials Science and Technology, 2016, 32, 505-508.	5.6	125
17	Comparison of the microstructures and mechanical properties of Ti–6Al–4V fabricated by selective laser melting and electron beam melting. Materials and Design, 2016, 95, 21-31.	3.3	508
18	A selective laser melting and solution heat treatment refined Al–12Si alloy with a controllable ultrafine eutectic microstructure and 25% tensile ductility. Acta Materialia, 2015, 95, 74-82.	3.8	518

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19	Failure modes in high strength and stiffness to weight scaffolds produced by Selective Laser Melting. Materials & Design, 2015, 67, 501-508.	5.1	76
20	Processing and properties of topologically optimised biomedical Ti–24Nb–4Zr–8Sn scaffolds manufactured by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 642, 268-278.	2.6	164
21	High specific strength and stiffness structures produced using selective laser melting. Materials & Design, 2014, 63, 783-788.	5.1	127
22	The effect of atmosphere on the structure and properties of a selective laser melted Al–12Si alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 370-375.	2.6	209
23	Selective laser melting of an Al86Ni6Y4.5Co2La1.5 metallic glass: Processing, microstructure evolution and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 370-379.	2.6	134
24	Elastic moduli of sintered powders with application to components fabricated using selective laser melting. Acta Materialia, 2011, 59, 5257-5265.	3.8	16
25	The sintering of an Fe–Cr–Ni–B–C powder. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 751-755.	2.6	9
26	Formation of Aluminum Nitride Coatings at Low Temperature. Advanced Engineering Materials, 2010, 12, 926-928.	1.6	1
27	Prototypes for Bone Implant Scaffolds Designed via Topology Optimization and Manufactured by Solid Freeform Fabrication. Advanced Engineering Materials, 2010, 12, 1106-1110.	1.6	103
28	Metal injection moulding of aluminium alloy 6061 with tin. Powder Metallurgy, 2008, 51, 78-83.	0.9	24
29	Heat treatment of Tiâ€6Alâ€7Nb components produced by selective laser melting. Rapid Prototyping Journal, 2008, 14, 300-304.	1.6	107
30	Process Shrinkage and Accuracy during Indirect Laser Sintering of Aluminium. Advanced Engineering Materials, 2006, 8, 260-264.	1.6	16
31	Sintering of maraging steel with phosphorous additions. Powder Metallurgy, 2005, 48, 47-50.	0.9	3
32	On the role of magnesium and nitrogen in the infiltration of aluminium by aluminium for rapid prototyping applications. Acta Materialia, 2004, 52, 3019-3025.	3.8	71
33	On the sintering of uncompacted, pre-alloyed Al powder alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 341, 163-168.	2.6	26
34	The effect of resin type on the sintering of freeformed maraging steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 344, 312-317.	2.6	9
35	Sintering of freeformed maraging steel with boron additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 363, 242-252.	2.6	27
36	Rapid Manufacturing of Aluminum Components. Science, 2003, 301, 1225-1227.	6.0	130

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#	Article	IF	CITATIONS
37	Liquid phase sintering of aluminium alloys. Materials Chemistry and Physics, 2001, 67, 85-91.	2.0	164
38	Freeform fabrication of aluminum metal-matrix composites. Journal of Materials Research, 2001, 16, 2613-2618.	1.2	12
39	The effect of trace elements on the sintering of Al–Cu alloys. Acta Materialia, 1999, 47, 689-697.	3.8	54
40	On the use of trace additions of Sn to enhance sintered 2xxx series Al powder alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 268, 32-39.	2.6	58
41	Selective Laser Melting of Low-Modulus Biomedical Ti-24Nb-4Zr-8Sn Alloy: Effect of Laser Point Distance. Key Engineering Materials, 0, 520, 226-233.	0.4	43