R J Friel

List of Publications by Year
in descending order

25 papers	687 citations	759055 12 h-index	677027 22 g-index
25 all docs	25 docs citations	25 times ranked	777 citing authors

#	Article	IF	Citations
1	Complementary catalysis and analysis within solid state additively manufactured metal micro flow reactors. Scientific Reports, 2022, 12, 5121.	1.6	2
2	Fabrication and characterisation of a silicon-borosilicate glass microfluidic device for synchrotron-based hard X-ray spectroscopy studies. RSC Advances, 2021, 11, 29859-29869.	1.7	7
3	BioMAX â€“ the first macromolecular crystallography beamline at MAX IV Laboratory. Journal of Synchrotron Radiation, 2020, 27, 1415-1429.	1.0	54
4	Current status and future opportunities for serial crystallography at MAX IV Laboratory. Journal of Synchrotron Radiation, 2020, 27, 1095-1102.	1.0	7
5	Mechanical behaviour of additively manufactured lunar regolith simulant components. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 1629-1644.	0.7	16
6	3D Printed Radar Lenses with Anti-Reflective Structures. Designs, 2019, 3, 28.	1.3	8
7	In-situ time resolved spectrographic measurement using an additively manufactured metallic micro-fluidic analysis platform. PLoS ONE, 2019, 14, e0224492.	1.1	3
8	Ultrasonic Additive Manufacturing as a form-then-bond process for embedding electronic circuitry into a metal matrix. Journal of Manufacturing Processes, 2018, 32, 664-675.	2.8	46
9	Enabling internal electronic circuitry within additively manufactured metal structures â€“ the effect and importance of inter-laminar topography. Rapid Prototyping Journal, 2018, 24, 204-213.	1.6	2
10	New concept to aid efficient fibre integration into metal matrices during ultrasonic consolidation. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 1105-1115.	1.5	4
11	Assessing extraterrestrial regolith material simulants for in-situ resource utilisation based 3D printing. Applied Materials Today, 2017, 6, 54-61.	2.3	68
12	Multifunctional metal matrix composites with embedded printed electrical materials fabricated by ultrasonic additive manufacturing. Composites Part B: Engineering, 2017, 113, 342-354.	5.9	54
13	Laser sintering of ceramic materials for aeronautical and astronautical applications. , 2017, , 373-398.		9
14	3D printing with moondust. Rapid Prototyping Journal, 2016, 22, 864-870.	1.6	42
15	Customisable 3D printed microfluidics for integrated analysis and optimisation. Lab on A Chip, 2016, 16, 3362-3373.	3.1	61
16	Additive manufacturing of physical assets by using ceramic multicomponent extra-terrestrial materials. Additive Manufacturing, 2016, 10, 36-42.	1.7	30
17	The effect of ultrasonic excitation on the electrical properties and microstructure of printed electronic conductive inks. , 2015, , .		1
18	Power ultrasonics for additive manufacturing and consolidating of materials. , 2015, , 313-335.		15

#	Article	IF	Citations
19	Exploring the mechanical strength of additively manufactured metal structures with embedded electrical materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 474-481.	2.6	30
20	Laser-Machined Microchannel Effect on Microstructure and Oxide Formation of an Ultrasonically Processed Aluminum Alloy. Journal of Engineering Materials and Technology, Transactions of the ASME, 2015, 137, .	0.8	3
21	Solid-state additive manufacturing for metallized optical fiber integration. Composites Part A: Applied Science and Manufacturing, 2015, 76, 181-193.	3.8	62
22	Ultrasonic Additive Manufacturing â€“ A Hybrid Production Process for Novel Functional Products. Procedia CIRP, 2013, 6, 35-40.	1.0	104
23	Fiber laser induced surface modification/manipulation of an ultrasonically consolidated metal matrix. Journal of Materials Processing Technology, 2013, 213, 1792-1800.	3.1	9
24	The effect of interface topography for Ultrasonic Consolidation of aluminium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4474-4483.	2.6	37
25	A nanometre-scale fibre-to-matrix interface characterization of an ultrasonically consolidated metal matrix composite. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2010, 224, 31-40.	0.7	13