

R J Friel

List of Publications by Year in descending order

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Version: 2024-02-01

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	Ultrasonic Additive Manufacturing – A Hybrid Production Process for Novel Functional Products. <i>Procedia CIRP</i> , 2013, 6, 35-40.	1.0	104
2	Assessing extraterrestrial regolith material simulants for in-situ resource utilisation based 3D printing. <i>Applied Materials Today</i> , 2017, 6, 54-61.	2.3	68
3	Solid-state additive manufacturing for metallized optical fiber integration. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 76, 181-193.	3.8	62
4	Customisable 3D printed microfluidics for integrated analysis and optimisation. <i>Lab on A Chip</i> , 2016, 16, 3362-3373.	3.1	61
5	Multifunctional metal matrix composites with embedded printed electrical materials fabricated by ultrasonic additive manufacturing. <i>Composites Part B: Engineering</i> , 2017, 113, 342-354.	5.9	54
6	BioMAX – the first macromolecular crystallography beamline at MAX IV Laboratory. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1415-1429.	1.0	54
7	Ultrasonic Additive Manufacturing as a form-then-bond process for embedding electronic circuitry into a metal matrix. <i>Journal of Manufacturing Processes</i> , 2018, 32, 664-675.	2.8	46
8	3D printing with moondust. <i>Rapid Prototyping Journal</i> , 2016, 22, 864-870.	1.6	42
9	The effect of interface topography for Ultrasonic Consolidation of aluminium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4474-4483.	2.6	37
10	Exploring the mechanical strength of additively manufactured metal structures with embedded electrical materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 474-481.	2.6	30
11	Additive manufacturing of physical assets by using ceramic multicomponent extra-terrestrial materials. <i>Additive Manufacturing</i> , 2016, 10, 36-42.	1.7	30
12	Mechanical behaviour of additively manufactured lunar regolith simulant components. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019, 233, 1629-1644.	0.7	16
13	Power ultrasonics for additive manufacturing and consolidating of materials. , 2015, , 313-335.		15
14	A nanometre-scale fibre-to-matrix interface characterization of an ultrasonically consolidated metal matrix composite. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2010, 224, 31-40.	0.7	13
15	Fiber laser induced surface modification/manipulation of an ultrasonically consolidated metal matrix. <i>Journal of Materials Processing Technology</i> , 2013, 213, 1792-1800.	3.1	9
16	Laser sintering of ceramic materials for aeronautical and astronautical applications. , 2017, , 373-398.		9
17	3D Printed Radar Lenses with Anti-Reflective Structures. <i>Designs</i> , 2019, 3, 28.	1.3	8
18	Fabrication and characterisation of a silicon-borosilicate glass microfluidic device for synchrotron-based hard X-ray spectroscopy studies. <i>RSC Advances</i> , 2021, 11, 29859-29869.	1.7	7

#	ARTICLE	IF	CITATIONS
19	Current status and future opportunities for serial crystallography at MAX IV Laboratory. Journal of Synchrotron Radiation, 2020, 27, 1095-1102.	1.0	7
20	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
21	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
22	In-situ time resolved spectrographic measurement using an additively manufactured metallic micro-fluidic analysis platform. PLoS ONE, 2019, 14, e0224492.	1.1	3
23	Enabling internal electronic circuitry within additively manufactured metal structures – the effect and importance of inter-laminar topography. Rapid Prototyping Journal, 2018, 24, 204-213.	1.6	2
24	Complementary catalysis and analysis within solid state additively manufactured metal micro flow reactors. Scientific Reports, 2022, 12, 5121.	1.6	2
25	The effect of ultrasonic excitation on the electrical properties and microstructure of printed electronic conductive inks. , 2015, , .		1