

Dermot Brabazon

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.

193 papers	3,647 citations	30 h-index	52 g-index
213 ext. papers	4,556 ext. citations	4 avg, IF	5.92 L-index

#	Paper	IF	Citations
193	Adsorption and desorption of methylene blue on porous carbon monoliths and nanocrystalline cellulose. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8796-804	9.5	247
192	Selective laser sintering of hydroxyapatite/poly-epsilon-caprolactone scaffolds. <i>Acta Biomaterialia</i> , 2010 , 6, 2511-7	10.8	144
191	Graphene oxide and graphene nanosheet reinforced aluminium matrix composites: Powder synthesis and prepared composite characteristics. <i>Materials and Design</i> , 2016 , 94, 87-94	8.1	143
190	Development and assessment of a new quick quench stir caster design for the production of metal matrix composites. <i>Journal of Materials Processing Technology</i> , 2005 , 166, 430-439	5.3	119
189	Fabrication of aluminum matrix composites reinforced with nano- to micrometer-sized SiC particles. <i>Materials and Design</i> , 2016 , 89, 58-70	8.1	111
188	Stir casting process for manufacture of AlSiC composites. <i>Rare Metals</i> , 2017 , 36, 581-590	5.5	109
187	Simulation of the stir casting process. <i>Journal of Materials Processing Technology</i> , 2003 , 143-144, 567-571	5.3	105
186	Strengthening mechanisms of graphene sheets in aluminium matrix nanocomposites. <i>Materials and Design</i> , 2015 , 88, 983-989	8.1	101
185	Advances in three-dimensional rapid prototyping of microfluidic devices for biological applications. <i>Biomicrofluidics</i> , 2014 , 8, 052112	3.2	94
184	Mechanical stir casting of aluminium alloys from the mushy state: process, microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 326, 370-381	5.3	92
183	Graphene and derivatives [Synthesis techniques, properties and their energy applications. <i>Energy</i> , 2017 , 140, 766-778	7.9	76
182	3D printed metal columns for capillary liquid chromatography. <i>Analyst, The</i> , 2014 , 139, 6343-7	5	76
181	Mechanical properties of graphene oxide reinforced aluminium matrix composites. <i>Composites Part B: Engineering</i> , 2018 , 145, 136-144	10	64
180	Computational and experimental analysis of particulate distribution during AlSiC MMC fabrication. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007 , 38, 719-729	8.4	63
179	High speed laser surface modification of Ti6Al4V. <i>Surface and Coatings Technology</i> , 2012 , 206, 3223-3229	4.4	60
178	Advanced materials of printed wearables for physiological parameter monitoring. <i>Materials Today</i> , 2020 , 32, 147-177	21.8	59
177	Surface modification of polymers for biocompatibility via exposure to extreme ultraviolet radiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3298-310	5.4	58

176	Experimental investigation of the transient and steady state rheological behaviour of AlBi alloys in the mushy state. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 356, 69-80	5.3	50
175	Mechanical properties of rolled A356 based composites reinforced by Cu-coated bimodal ceramic particles. <i>Materials and Design</i> , 2015 , 83, 678-688	8.1	45
174	Effect of interfacial-active elements addition on the incorporation of micron-sized SiC particles in molten pure aluminum. <i>Ceramics International</i> , 2014 , 40, 8323-8332	5.1	45
173	Enhanced mechanical properties of in situ aluminium matrix composites reinforced by alumina nanoparticles. <i>Archives of Civil and Mechanical Engineering</i> , 2018 , 18, 215-226	3.4	43
172	Comparison of ANN and DoE for the prediction of laser-machined micro-channel dimensions. <i>Optics and Lasers in Engineering</i> , 2009 , 47, 956-964	4.6	40
171	Effect of electroless coating parameters and ceramic particle size on fabrication of a uniform NiB coating on SiC particles. <i>Ceramics International</i> , 2014 , 40, 12149-12159	5.1	39
170	Advances in Selective Laser Melting of Nitinol Shape Memory Alloy Part Production. <i>Materials</i> , 2019 , 12,	3.5	37
169	Laser assisted synthesis of carbon nanoparticles with controlled viscosities for printing applications. <i>Journal of Colloid and Interface Science</i> , 2015 , 447, 263-8	9.3	36
168	Liquid Phase [Pulsed Laser Ablation: A route to fabricate different carbon nanostructures. <i>Applied Surface Science</i> , 2014 , 302, 141-144	6.7	36
167	Recyclability of stainless steel (316 L) powder within the additive manufacturing process. <i>Materialia</i> , 2019 , 8, 100489	3.2	35
166	Laser Polishing of Additive Manufactured 316L Stainless Steel Synthesized by Selective Laser Melting. <i>Materials</i> , 2019 , 12,	3.5	34
165	Interaction between zinc, cadmium, and lead in scalp hair samples of Pakistani and Irish smokers rheumatoid arthritis subjects in relation to controls. <i>Biological Trace Element Research</i> , 2012 , 148, 139-47	4.5	33
164	ColiSense, today's sample today: A rapid on-site detection of ED-Glucuronidase activity in surface water as a surrogate for E. coli. <i>Talanta</i> , 2016 , 148, 75-83	6.2	31
163	A new method for assessing the recyclability of powders within Powder Bed Fusion process. <i>Materials Characterization</i> , 2020 , 161, 110167	3.9	30
162	MXene materials based printed flexible devices for healthcare, biomedical and energy storage applications. <i>Materials Today</i> , 2021 , 43, 99-131	21.8	29
161	A Novel Method for Incorporation of Micron-Sized SiC Particles into Molten Pure Aluminum Utilizing a Co Coating. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015 , 46, 12-19	2.5	26
160	In vitro fibroblast and pre-osteoblastic cellular responses on laser surface modified Ti-6Al-4V. <i>Biomedical Materials (Bristol)</i> , 2014 , 10, 015007	3.5	26
159	Direct thermal method: new process for development of globular alloy microstructure. <i>International Journal of Cast Metals Research</i> , 2003 , 16, 418-426	1	26

158	A comparison study of applying metallic coating on SiC particles for manufacturing of cast aluminum matrix composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 81, 433-444	3.2	25
157	Microchannel fabrication on cyclic olefin polymer substrates via 1064 nm Nd:YAG laser ablation. <i>Applied Surface Science</i> , 2016 , 387, 603-608	6.7	25
156	Tensile properties of AlCrCoFeCuNi glassy alloys: A molecular dynamics simulation study. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 698, 143-151	5.3	24
155	Xurography actuated valving for centrifugal flow control. <i>Lab on A Chip</i> , 2016 , 16, 3454-9	7.2	24
154	Comparative metal distribution in scalp hair of Pakistani and Irish referents and diabetes mellitus patients. <i>Clinica Chimica Acta</i> , 2013 , 415, 207-14	6.2	24
153	Centrifugally-driven sample extraction, preconcentration and purification in microfluidic compact discs. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1575-1586	14.6	24
152	Surface modification of AISI H13 tool steel by laser cladding with NiTi powder. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	24
151	Extreme ultraviolet (EUV) surface modification of polytetrafluoroethylene (PTFE) for control of biocompatibility. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 364, 98-107	1.2	23
150	Permeability of rapid prototyped artificial bone scaffold structures. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4127-35	5.4	23
149	Thermal stability of laser treated die material for semi-solid metal forming. <i>International Journal of Material Forming</i> , 2009 , 2, 761-764	2	23
148	Thermal fatigue properties of laser treated steels. <i>International Journal of Material Forming</i> , 2010 , 3, 797-800	2	23
147	Study of the plastic deformation mechanism of TRIP/WIP high entropy alloys at the atomic level. <i>International Journal of Plasticity</i> , 2020 , 127, 102649	7.6	23
146	Laser surface texturing of stainless steel 316L cylindrical pins for interference fit applications. <i>Journal of Materials Processing Technology</i> , 2018 , 252, 58-68	5.3	22
145	3D transient thermal modelling of laser microchannel fabrication in lime-soda glass. <i>Journal of Materials Processing Technology</i> , 2008 , 207, 307-314	5.3	21
144	Methacrylate Polymer Monoliths for Separation Applications. <i>Materials</i> , 2016 , 9,	3.5	21
143	Manufacturing of cast A356 matrix composite reinforced with nano- to micrometer-sized SiC particles. <i>Rare Metals</i> , 2017 , 36, 46-54	5.5	20
142	Evaluation via powder metallurgy of nano-reinforced iron powders developed for selective laser melting applications. <i>Materials and Design</i> , 2019 , 182, 108046	8.1	20
141	Fast Fabrication Process of Microfluidic Devices Based on Cyclic Olefin Copolymer. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 93-99	4.1	20

140	Surface modification of HVOF thermal sprayed WC/CoCr coatings by laser treatment. <i>International Journal of Material Forming</i> , 2010 , 3, 801-804	2	20
139	Estimation of toxic elements in the samples of different cigarettes and their effect on the essential elemental status in the biological samples of Irish smoker rheumatoid arthritis consumers. <i>Environmental Monitoring and Assessment</i> , 2015 , 187, 157	3.1	19
138	Methodology of laser processing for precise control of surface micro-topology. <i>Surface and Coatings Technology</i> , 2016 , 307, 702-712	4.4	18
137	In-situ sensing, process monitoring and machine control in Laser Powder Bed Fusion: A review. <i>Additive Manufacturing</i> , 2021 , 45, 102058	6.1	18
136	Electroless deposition (ED) of copper coating on micron-sized SiC particles. <i>Surface Engineering</i> , 2014 , 30, 747-751	2.6	17
135	Determination of atomic-scale structure and compressive behavior of solidified Al _x CrCoFeCuNi high entropy alloys. <i>International Journal of Mechanical Sciences</i> , 2020 , 171, 105389	5.5	17
134	An Innovative Two-Stage Reheating Process for Wrought Aluminum Alloy During Thixoforming. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4191-4201	2.3	16
133	Evaluation of essential trace and toxic elements in scalp hair samples of smokers and alcohol user hypertensive patients. <i>Biological Trace Element Research</i> , 2011 , 143, 1349-66	4.5	16
132	Process mapping of laser surface modification of AISI 316L stainless steel for biomedical applications. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 101, 367-371	2.6	16
131	Influences of powder morphology and spreading parameters on the powder bed topography uniformity in powder bed fusion metal additive manufacturing. <i>Additive Manufacturing</i> , 2021 , 38, 101807	6.1	16
130	Improved determination of femtogram-level organic explosives in multiple matrices using dual-sorbent solid phase extraction and liquid chromatography-high resolution accurate mass spectrometry. <i>Talanta</i> , 2019 , 203, 65-76	6.2	15
129	Response of a ZnO/TiO ₂ Gas Sensor to Propanol at Room Temperature. <i>Sensors</i> , 2017 , 17,	3.8	14
128	Optimizing selective laser sintering process by grey relational analysis and soft computing techniques. <i>Optik</i> , 2018 , 174, 185-194	2.5	13
127	The Effect of Direct Thermal Method, Temperature and Time on Microstructure of a Cast Aluminum Alloy. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 134-139	4.1	13
126	Estimation of toxic elements in the samples of different cigarettes and their impact on human health of Irish hypertensive consumers. <i>Clinica Chimica Acta</i> , 2013 , 426, 51-7	6.2	13
125	Molecular dynamic simulation of edge dislocation-void interaction in pure Al and Al-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 82-90	5.3	13
124	An evaluation of components manufactured from a range of materials, fabricated using PolyJet technology. <i>Advances in Materials and Processing Technologies</i> , 2017 , 3, 318-329	0.8	12
123	Pulsed laser deposition of plasmonic nanostructured gold on flexible transparent polymers at atmospheric pressure. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 245303	3	12

122	Incorporation of SiC Ceramic Nanoparticles into the Aluminum Matrix by a Novel Method: Production of a Metal Matrix Composite. <i>Metals and Materials International</i> , 2020 , 27, 2968	2.4	12
121	Thermal Profiles and Fraction Solid of Aluminium 7075 at Different Cooling Rate Conditions. <i>Key Engineering Materials</i> , 2013 , 554-557, 582-595	0.4	12
120	Polycarbonate Polymer Surface Modification by Extreme Ultraviolet (EUV) Radiation. <i>Acta Physica Polonica A</i> , 2014 , 125, 924-928	0.6	12
119	Strength-ductility trade-off via SiC nanoparticle dispersion in A356 aluminium matrix. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138639	5.3	12
118	Comprehensive assessment of spatter material generated during selective laser melting of stainless steel. <i>Materials Today Communications</i> , 2020 , 25, 101294	2.5	12
117	Advanced production routes for metal matrix composites. <i>Engineering Reports</i> , 2021 , 3, e12330	1.2	12
116	Comparison of the porosity and mechanical performance of 316L stainless steel manufactured on different laser powder bed fusion metal additive manufacturing machines. <i>Journal of Materials Research and Technology</i> , 2021 , 13, 2361-2374	5.5	12
115	Laser beam powder bed fusion of nitinol shape memory alloy (SMA). <i>Journal of Materials Research and Technology</i> , 2021 , 14, 2554-2570	5.5	12
114	Assessment of thermo-hydraulic performance of inward dimpled tubes with variation in angular orientations. <i>Applied Thermal Engineering</i> , 2020 , 170, 115040	5.8	11
113	Characteristics of silicon nanocrystals for photovoltaic applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 604-607	1.6	11
112	Design of Bone Scaffolds Structures for Rapid Prototyping with Increased Strength and Osteoconductivity. <i>Advanced Materials Research</i> , 2009 , 83-86, 914-922	0.5	11
111	Extreme Ultraviolet Surface Modification of Polyethylene Terephthalate (PET) for Surface Structuring and Wettability Control. <i>Acta Physica Polonica A</i> , 2016 , 129, 241-243	0.6	11
110	X-ray Tomography, AFM and Nanoindentation Measurements for Recyclability Analysis of 316L Powders in 3D Printing Process. <i>Procedia Manufacturing</i> , 2020 , 47, 1113-1116	1.5	11
109	Laser surface processing with controlled nitrogen-argon concentration levels for regulated surface life time. <i>Optics and Lasers in Engineering</i> , 2018 , 102, 154-160	4.6	11
108	New strategies for stationary phase integration within centrifugal microfluidic platforms for applications in sample preparation and pre-concentration. <i>Analytical Methods</i> , 2017 , 9, 1998-2006	3.2	10
107	Study on the incorporation of ceramic nanoparticles into the semi-solid A356 melt. <i>Materials Chemistry and Physics</i> , 2019 , 230, 25-36	4.4	10
106	Microstructure and morphological study of ball-milled metal matrix nanocomposites. <i>Physics of Metals and Metallography</i> , 2017 , 118, 749-758	1.2	10
105	Effect of Hydroxyapatite on Biodegradable Scaffolds Fabricated by SLS. <i>Key Engineering Materials</i> , 2008 , 396-398, 659-662	0.4	10

104	Effect of SiC particle morphology on CoB electroless coating characteristics. <i>Surface Engineering</i> , 2016 , 32, 391-396	2.6	10
103	CO2 laser polishing of laser-powder bed fusion produced AlSi10Mg parts. <i>Surface and Coatings Technology</i> , 2021 , 419, 127291	4.4	10
102	Review of duplex electroless coatings and their properties. <i>Advances in Materials and Processing Technologies</i> , 2018 , 4, 448-465	0.8	9
101	Microstructural characterization of ball-milled metal matrix nanocomposites (Cr, Ni, Ti)-25 wt% (Al2O3np, SiCnp). <i>Particulate Science and Technology</i> , 2018 , 36, 72-83	2	9
100	Powder processing methodology for production of graphene oxide reinforced aluminium matrix composites. <i>Advances in Materials and Processing Technologies</i> , 2016 , 2, 437-450	0.8	9
99	Spinodal decomposition in AISI 316L stainless steel via high-speed laser remelting. <i>Applied Surface Science</i> , 2014 , 302, 318-321	6.7	9
98	Fabrication and characterization of nanotemplated carbon monolithic material. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8572-80	9.5	9
97	Thermal Simulation of Laser Surface Modification of H13 Die Steel. <i>Key Engineering Materials</i> , 2012 , 504-506, 351-356	0.4	9
96	Assessment of toxic elements in the samples of different cigarettes and their effect on the essential elemental status in the biological samples of Irish hypertensive consumers. <i>Journal of Human Hypertension</i> , 2015 , 29, 309-15	2.6	8
95	"Nano": An Emerging Avenue in Electrochemical Detection of Neurotransmitters. <i>ACS Chemical Neuroscience</i> , 2020 , 11, 4024-4047	5.7	8
94	Taguchi method modelling of Nd:YAG laser ablation of microchannels on cyclic olefin polymer film. <i>Optics and Laser Technology</i> , 2018 , 106, 265-271	4.2	8
93	Demonstration of an optical biosensor for the detection of faecal indicator bacteria in freshwater and coastal bathing areas. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 7637-7643	4.4	8
92	Focussed ion beam serial sectioning and imaging of monolithic materials for 3D reconstruction and morphological parameter evaluation. <i>Analyst, The</i> , 2014 , 139, 99-104	5	8
91	Effect of Saturation and Post Processing on 3D Printed Calcium Phosphate Scaffolds. <i>Key Engineering Materials</i> , 2008 , 396-398, 663-666	0.4	8
90	XPS, XRD, and SEM characterization of the virgin and recycled metallic powders for 3D printing applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 591, 012016	0.4	8
89	Ti6Al4V functionally graded material via high power and high speed laser surface modification. <i>Surface and Coatings Technology</i> , 2020 , 398, 126085	4.4	7
88	Improving precision in the prediction of laser texturing and surface interference of 316L assessed by neural network and adaptive neuro-fuzzy inference models. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 4571-4580	3.2	7
87	Comparative metal distribution in scalp hair of Pakistani and Irish referents and hypertensive patients. <i>Biological Trace Element Research</i> , 2011 , 143, 1367-82	4.5	7

86	XPS, SEM, AFM, and Nano-Indentation characterization for powder recycling within additive manufacturing process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1182, 012025	0.4	7
85	Nanoparticle functionalized laser patterned substrate: an innovative route towards low cost biomimetic platforms. <i>RSC Advances</i> , 2017 , 7, 8060-8069	3.7	6
84	Mitigation and control of the overcuring effect in mask projection micro-stereolithography 2017 ,		6
83	Laser Surface Modification of H13 Die Steel using Different Laser Spot Sizes 2011 ,		6
82	Effect of vibration on the shear strength of impacted bone graft in revision hip surgery. <i>Journal of Bone and Joint Surgery: British Volume</i> , 2011 , 93, 755-9		6
81	Detecting voids in 3D printing using melt pool time series data. <i>Journal of Intelligent Manufacturing</i> , 2020 , 1	6.7	6
80	Microstructural and mechanical evaluation of post-processed SS 316L manufactured by laser-based powder bed fusion. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 210-220	5.5	6
79	XPS, SEM, DSC and Nanoindentation Characterization of Silver Nanoparticle-Coated Biopolymer Pellets. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7706	2.6	6
78	Manufacturing of copper coated SiC ceramic particles for metal matrix composites: optimizing the electroless deposition parameters. <i>Materials Research Express</i> , 2018 , 5, 106515	1.7	5
77	Rapid Solidification Processing and Bulk Metallic Glass Casting 2014 , 69-88		5
76	Atomic diffusion in laser surface modified AISI H13 steel. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 139-142	2.6	5
75	Analysis of Microstructural Changes during Pulsed CO2 Laser Surface Processing of AISI 316L Stainless Steel. <i>Advanced Materials Research</i> , 2011 , 264-265, 1401-1408	0.5	5
74	Laser Surface Modification of Tool Steel for Semi-Solid Steel Forming. <i>Solid State Phenomena</i> , 2008 , 141-143, 255-260	0.4	5
73	Multi-beam fibre-optic laser scanning system for surface defect recognition. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 2065-2070	5.3	5
72	Analysis of surface defects using a novel developed fiber-optics laser scanning system. <i>Journal of Materials Processing Technology</i> , 2003 , 143-144, 875-879	5.3	5
71	Trace multi-class organic explosives analysis in complex matrices enabled using LEGO [®] -inspired clickable 3D-printed solid phase extraction block arrays. <i>Journal of Chromatography A</i> , 2020 , 1629, 461506	4.5	5
70	Comparing the adhesion strength of 316L stainless steel joints after laser surface texturing by CO2 and fiber lasers. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 109, 1059-1069	3.2	5
69	316L Stainless Steel Powders for Additive Manufacturing: Relationships of Powder Rheology, Size, Size Distribution to Part Properties. <i>Materials</i> , 2020 , 13,	3.5	5

68	Effect of powder metallurgy synthesis parameters for pure aluminium on resultant mechanical properties. <i>International Journal of Material Forming</i> , 2019 , 12, 79-87	2	5
67	Fabrication of A356-based rolled composites reinforced by NiB-coated bimodal ceramic particles. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018 , 232, 803-815	1.3	4
66	Corrosion behaviour of rolled A356 matrix composite reinforced with ceramic particles. <i>International Journal of Materials Research</i> , 2016 , 107, 1100-1111	0.5	4
65	Injection Tests and Effect on Microstructure and Properties of Aluminium 7075 Direct Thermal Method Feedstock Billets. <i>Key Engineering Materials</i> , 2014 , 611-612, 1637-1644	0.4	4
64	Direct Thermal Method of Aluminium 7075. <i>Advanced Materials Research</i> , 2014 , 939, 400-408	0.5	4
63	Laser Processing of Quartz for Microfluidic Device Fabrication. <i>Advanced Materials Research</i> , 2012 , 445, 436-441	0.5	4
62	Prediction of Mechanical Properties of Graphene Oxide Reinforced Aluminum Composites. <i>Metals</i> , 2019 , 9, 1077	2.3	4
61	The Circular Economy: Additive Manufacturing and Impacts for Materials Processing 2020 , 81-92		4
60	Review of Materials and Fabrication Methods for Flexible Nano and Micro-Scale Physical and Chemical Property Sensors. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8563	2.6	4
59	Physical integrity of 3D printed parts for use as embossing tools. <i>Advances in Materials and Processing Technologies</i> , 2017 , 3, 308-317	0.8	3
58	A comparison between hot-rolling process and twin-screw rheo-extrusion process for fabrication of aluminum matrix nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 760, 152-157	5.3	3
57	Standardized traction versus side-bending radiographs in adolescent idiopathic scoliosis: a preliminary study. <i>Journal of Pediatric Orthopaedics Part B</i> , 2019 , 28, 17-21	1.4	3
56	Experimental and empirical model analysis of microsurface texturing on 316 L press-fit joints fabricated by selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 108, 2687-2699	3.2	3
55	Stable nano-silver colloid production via Laser Ablation Synthesis in Solution (LASiS) under laminar recirculatory flow. <i>Advances in Materials and Processing Technologies</i> , 2020 , 6, 677-685	0.8	3
54	Development of Laser Processing Technologies via Experimental Design 2018 , 707-729		3
53	Mechanical Properties of Thixoformed 7075 Feedstock Produced via the Direct Thermal Method. <i>Key Engineering Materials</i> , 2015 , 651-653, 1569-1574	0.4	3
52	An Overview of Microfluidic Mixing Application. <i>Advanced Materials Research</i> , 2009 , 83-86, 931-939	0.5	3
51	Glazing of tool dies for semi-solid steel forming. <i>International Journal of Material Forming</i> , 2008 , 1, 985-988		3

50	Effect of Surface Roughness on CO2 Laser Absorption by 316L Stainless Steel and Aluminum. <i>Materials Performance and Characterization</i> , 2019 , 8, 20180091	0.5	3
49	An Evaluation of Classification Methods for 3D Printing Time-Series Data. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8211-8216	0.7	3
48	Development of BMG-B2 nanocomposite structure in HAZ during laser surface processing of ZrCuNiAlTi bulk metallic glasses. <i>Applied Surface Science</i> , 2020 , 505, 144535	6.7	3
47	Silver and Copper nano-colloid generation via Pulsed Laser Ablation in Liquid: Recirculation nanoparticle production mode 2021 ,		3
46	Nano-scale simulation of directional solidification in TWIP stainless steels: A focus on plastic deformation mechanisms. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 812, 140999	5.3	3
45	Improving the Surface Finish and other Properties of Engineering Metal Parts. <i>Key Engineering Materials</i> , 2019 , 813, 197-202	0.4	3
44	Multi-Material Production of 4D Shape Memory Polymer Composites 2021 , 879-894		3
43	Real-time monitoring and control for high-efficiency autonomous laser fabrication of silicon nanoparticle colloids. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 114, 291-304	3.2	3
42	Additive Manufacturing of Bone Scaffolds Using PolyJet and Stereolithography Techniques. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7336	2.6	3
41	Thermal analysis of mechanically activated Al-(Fe ₂ O ₃ , MoO ₃ , and MnO ₂) metastable intermolecular composites. <i>Materials Research Express</i> , 2019 , 6, 055516	1.7	2
40	Fast Ferroelectric Liquid Crystal Based Optical Switch: Simulation and Experiments. <i>Crystals</i> , 2019 , 9, 388	2.3	2
39	Permeability of Rapid Prototyped Artificial Bone Scaffold Structures. <i>Advanced Materials Research</i> , 2012 , 445, 607-612	0.5	2
38	Characterisation of Laser Modified WC-CoCr Coatings 2011 ,		2
37	A Powered Technique for Inserting Acetabular Cups. <i>Advanced Materials Research</i> , 2012 , 445, 1011-1016	0.5	2
36	Laser surface polishing of Ti-6Al-4V parts manufactured by laser powder bed fusion. <i>Surface and Coatings Technology</i> , 2022 , 434, 128179	4.4	2
35	Silver nanocolloid generation using dynamic Laser Ablation Synthesis in Solution system and drop-casting. <i>Nano Structures Nano Objects</i> , 2022 , 29, 100841	5.6	2
34	Laser-assisted synthesis of ultrapure nanostructures for biological sensing applications 2016 ,		2
33	Dry Milling of Aluminum and Ceramic Nanoparticles for a Particulate-Injection Casting of Aluminum Matrix Nanocomposites. <i>Silicon</i> , 2020 , 12, 913-920	2.4	2

32	Comparative study of a cubic, Kelvin and Weaire-Phelan unit cell for the prediction of the thermal conductivity of low density silica aerogels. <i>Microporous and Mesoporous Materials</i> , 2020 , 301, 110206	5.3	2
31	Dominant roles of eccentricity, fin design, and nanoparticles in performance enhancement of latent thermal energy storage unit. <i>Journal of Energy Storage</i> , 2021 , 43, 103181	7.8	2
30	Laser-powder bed fusion of silicon carbide reinforced 316L stainless steel using a sinusoidal laser scanning strategy. <i>Journal of Materials Research and Technology</i> , 2022 ,	5.5	2
29	Threshold fluences for conditioning, fatigue and damage effects of DKDP crystals. <i>Optical Materials</i> , 2019 , 91, 199-204	3.3	1
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