

Milan Brandt

List of Publications by Year in Descending Order

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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.

253
papers

9,005
citations

46
h-index

90
g-index

271
ext. papers

11,394
ext. citations

3.9
avg, IF

6.64
L-index

#	Paper	IF	Citations
253	Geometrical parameters and mechanical properties of Ti6Al4V hollow-walled lattices. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 142667	5.3	1
252	Microstructure modification of additive manufactured Ti-6Al-4V plates for improved ballistic performance properties. <i>Journal of Materials Processing Technology</i> , 2022 , 301, 117436	5.3	2
251	Variant selection in additively manufactured alpha-beta titanium alloys. <i>Journal of Materials Science and Technology</i> , 2022 , 113, 14-21	9.1	2
250	The effect of topology on the quasi-static and dynamic behaviour of SLM AlSi10Mg lattice structures. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 118, 4085	3.2	3
249	A comprehensive study on meltpool depth in laser-based powder bed fusion of Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 120, 2345	3.2	0
248	A Digital-Twin Methodology for the Non-destructive Certification of Lattice Structures. <i>Jom</i> , 2022 , 74, 1784-1797	2.1	1
247	Programmatic lattice generation tools for additive manufacture. <i>Software Impacts</i> , 2022 , 12, 100262	1.8	0
246	Effect of composition on the tensile and corrosion performance of nickel aluminium bronze produced via laser powder bed fusion. <i>Additive Manufacturing</i> , 2022 , 54, 102771	6.1	0
245	The effect of absorption ratio on meltpool features in laser-based powder bed fusion of IN718. <i>Optics and Laser Technology</i> , 2022 , 153, 108263	4.2	19
244	A customizable anthropomorphic phantom for dosimetric verification of 3D-printed lung, tissue, and bone density materials. <i>Medical Physics</i> , 2021 , 49, 52	4.4	2
243	Manufacturability of Ti-Al-4V Hollow-Walled Lattice Struts by Laser Powder Bed Fusion. <i>Jom</i> , 2021 , 73, 4199	2.1	1
242	Effect of alloy composition and laser powder bed fusion parameters on the defect formation and mechanical properties of Inconel 625. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 114, 915-927	3.2	4
241	The technology of continuous fibre-reinforced polymers: a review on extrusion additive manufacturing methods. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 113, 3057-3077	3.2	6
240	An accurate and real-time melt pool dimension measurement method for laser direct metal deposition. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 114, 2421-2432	3.2	0
239	Processing window for laser metal deposition of Al 7075 powder with minimized defects. <i>Journal of Manufacturing Processes</i> , 2021 , 64, 1484-1492	5	6
238	Role of deposition strategy and fill depth on the tensile and fatigue performance of 300 M repaired through laser directed energy deposition. <i>International Journal of Fatigue</i> , 2021 , 146, 106135	5	4
237	Grain refinement of stainless steel in ultrasound-assisted additive manufacturing. <i>Additive Manufacturing</i> , 2021 , 37, 101632	6.1	6

236	Effects of furnace annealing on in situ reacted Ti ₂ AlC MAX phase composite coatings deposited by laser cladding. <i>Surface and Coatings Technology</i> , 2021 , 405, 126597	4.4	1
235	Increased efficiency gyroid structures by tailored material distribution. <i>Materials and Design</i> , 2021 , 197, 109096	8.1	11
234	Current state and future trends in laser powder bed fusion technology 2021 , 621-634		1
233	The interlace deposition method of bone equivalent material extrusion 3D printing for imaging in radiotherapy. <i>Materials and Design</i> , 2021 , 199, 109439	8.1	3
232	Image-Based Geometrical Characterization of Nodes in Additively Manufactured Lattice Structures. <i>3D Printing and Additive Manufacturing</i> , 2021 , 8, 51-68	4	10
231	Improved ballistic performance of additively manufactured Ti6Al4V with lamellar microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 825, 141888	5.3	1
230	The Effect of Geometry on Local Processing State in Additively Manufactured Ti-6Al-4V Lattices. <i>Integrating Materials and Manufacturing Innovation</i> , 2021 , 10, 508-523	2.9	
229	Automated resection planning for bone tumor surgery. <i>Computers in Biology and Medicine</i> , 2021 , 137, 104777	7	0
228	Hollow-walled lattice materials by additive manufacturing: Design, manufacture, properties, applications and challenges. <i>Current Opinion in Solid State and Materials Science</i> , 2021 , 25, 100940	12	10
227	Buckling phenomena in AM lattice strut elements: A design tool applied to Ti-6Al-4V LB-PBF. <i>Materials and Design</i> , 2021 , 208, 109892	8.1	3
226	Simulation-informed laser metal powder deposition of Ti-6Al-4V with ultrafine lamellar structures for desired tensile properties. <i>Additive Manufacturing</i> , 2021 , 46, 102139	6.1	3
225	On the role of wet abrasive centrifugal barrel finishing on surface enhancement and material removal rate of LPBF stainless steel 316L. <i>Journal of Manufacturing Processes</i> , 2020 , 59, 523-534	5	10
224	Adoption and Diffusion of Disruptive Technologies: The Case of Additive Manufacturing in Medical Technology Industry in Australia. <i>Procedia Manufacturing</i> , 2020 , 43, 18-24	1.5	6
223	The compressive behaviour of ABS gyroid lattice structures manufactured by fused deposition modelling. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 4449-4467	3.2	17
222	Influence of fill thickness on tensile performance of 300M high strength steel following laser metal deposition repair. <i>Journal of Laser Applications</i> , 2020 , 32, 022061	2.1	1
221	The effect of pre-heat temperature on the microstructure and abrasive wear properties of laser metal deposited near-eutectic Fe-28Cr-2.9C alloy. <i>Journal of Laser Applications</i> , 2020 , 32, 032008	2.1	1
220	Additive manufacturing in radiation oncology: a review of clinical practice, emerging trends and research opportunities. <i>International Journal of Extreme Manufacturing</i> , 2020 , 2, 012003	7.9	17
219	Microstructural analysis of in-situ reacted Ti ₂ AlC MAX phase composite coating by laser cladding. <i>Surface and Coatings Technology</i> , 2020 , 385, 125360	4.4	9

218	A Monte Carlo simulation-based approach to realistic modelling of additively manufactured lattice structures. <i>Additive Manufacturing</i> , 2020 , 32, 101092	6.1	16
217	Additive Manufacture of Lung Equivalent Anthropomorphic Phantoms: A Method to Control Hounsfield Number Utilizing Partial Volume Effect. <i>Journal of Engineering and Science in Medical Diagnostics and Therapy</i> , 2020 , 3,	1	5
216	Effect of additive manufactured lattice defects on mechanical properties: an automated method for the enhancement of lattice geometry. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 108, 957-971	3.2	12
215	Effect of build orientation on the quasi-static and dynamic response of SLM AlSi10Mg. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 788, 139445	5.3	40
214	Grain structure control during metal 3D printing by high-intensity ultrasound. <i>Nature Communications</i> , 2020 , 11, 142	17.4	185
213	3D-Printed Diamond-Titanium Composite: A Hybrid Material for Implant Engineering.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 29-36	4.1	10
212	Robots and Tools for Remodeling Bone. <i>IEEE Reviews in Biomedical Engineering</i> , 2020 , 13, 184-198	6.4	1
211	Characteristics of oxide films on Ti-(10-15)Ta alloys and their corrosion performance in an aerated Hank's balanced salt solution. <i>Applied Surface Science</i> , 2020 , 506, 145013	6.7	12
210	Influence of delay strategies and residual heat on in-situ tempering in the laser metal deposition of 300M high strength steel. <i>Surface and Coatings Technology</i> , 2020 , 383, 125279	4.4	9
209	Non-destructive simulation of node defects in additively manufactured lattice structures. <i>Additive Manufacturing</i> , 2020 , 36, 101593	6.1	7
208	3D Printing of polymer composites with material jetting: Mechanical and fractographic analysis. <i>Additive Manufacturing</i> , 2020 , 36, 101558	6.1	13
207	Heat transfer in lattice structures during metal additive manufacturing: numerical exploration of temperature field evolution. <i>Rapid Prototyping Journal</i> , 2020 , 26, 911-928	3.8	6
206	A study on surface morphology and tension in laser powder bed fusion of Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 111, 2891-2909	3.2	10
205	Ultra-High-Speed Laser Cladding of Stellite 6 Alloy on Mild Steel. <i>Jom</i> , 2020 , 72, 4632-4638	2.1	1
204	The effect of heat treatment on the abrasive and erosive wear behaviour of laser metal deposited Fe ₂₈ Cr ₂ .7C alloy. <i>Wear</i> , 2020 , 458-459, 203410	3.5	4
203	Rheology and 3D Printability of Percolated Graphene-Polyamide-6 Composites. <i>Polymers</i> , 2020 , 12,	4.5	8
202	Influence of deposition strategy on the microstructure and fatigue properties of laser metal deposited Ti-6Al-4V powder on Ti-6Al-4V substrate. <i>International Journal of Fatigue</i> , 2020 , 130, 105236	5	25
201	Gyroid structures for 3D-printed heterogeneous radiotherapy phantoms. <i>Physics in Medicine and Biology</i> , 2019 , 64, 21NT05	3.8	9

200	Model predictive control of laser metal deposition. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 1055-1067	3.2	9
199	Mechanical and thermal characterisation of AlSi10Mg SLM block support structures. <i>Materials and Design</i> , 2019 , 183, 108138	8.1	21
198	Experimental and numerical assessment of surface roughness for Ti6Al4V lattice elements in selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 1275-1293	3.2	19
197	Effect of geometry on the mechanical properties of Ti-6Al-4V Gyroid structures fabricated via SLM: A numerical study. <i>Materials and Design</i> , 2019 , 184, 108165	8.1	54
196	Development of Bulk Metallic Glasses and their Composites by Additive Manufacturing [Evolution, Challenges and a Proposed Novel Solution. <i>Advanced Materials Research</i> , 2019 , 1155, 1-28	0.5	1
195	Microstructure, abrasive wear and corrosion characterisation of laser metal deposited Fe-30Cr-6Mo-10Ni-2.2C alloy. <i>Wear</i> , 2019 , 438-439, 203070	3.5	10
194	A Systematic Review on 3D-Printed Imaging and Dosimetry Phantoms in Radiation Therapy. <i>Technology in Cancer Research and Treatment</i> , 2019 , 18, 1533033819870208	2.7	35
193	Novel Ti35Zr28Nb alloy scaffolds manufactured using selective laser melting for bone implant applications. <i>Acta Biomaterialia</i> , 2019 , 87, 273-284	10.8	52
192	Three-Dimensional Printing of Sports Equipment 2019 , 161-198		6
191	3D characterization of defects in deep-powder-bed manufactured Ti6Al4V and their influence on tensile properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 138031	5.3	22
190	Measurement of actual powder layer height and packing density in a single layer in selective laser melting. <i>Additive Manufacturing</i> , 2019 , 28, 176-183	6.1	35
189	Additively manufactured, highly-uniform flow distributor for process intensification. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 143, 107595	3.7	10
188	SLM lattice structures: Properties, performance, applications and challenges. <i>Materials and Design</i> , 2019 , 183, 108137	8.1	299
187	Selective Laser Melting of Duplex Stainless Steel 2205: Effect of Post-Processing Heat Treatment on Microstructure, Mechanical Properties, and Corrosion Resistance. <i>Materials</i> , 2019 , 12,	3.5	34
186	Voxel-based support structures for additive manufacture of topologically optimal geometries. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 1-26	3.2	16
185	Development of Bulk Metallic Glass Matrix Composites (BMGMC) by Additive Manufacturing: Modelling and Simulation [A Review: Part B. <i>Advanced Materials Research</i> , 2019 , 1154, 40-79	0.5	0
184	Development of Bulk Metallic Glass Matrix Composites (BMGMC) by Additive Manufacturing: Modelling and Simulation [A Review: Part A. <i>Advanced Materials Research</i> , 2019 , 1154, 1-39	0.5	1
183	Effect of polygon order on additively manufactured lattice structures: a method for defining the threshold resolution for lattice geometry. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 2501-2511	3.2	10

182	Additively manufactured titanium artworks 2019 , 173-184		1
181	Computational modelling of strut defects in SLM manufactured lattice structures. <i>Materials and Design</i> , 2019 , 171, 107671	8.1	95
180	Rational design of additively manufactured Ti6Al4V implants to control Staphylococcus aureus biofilm formation. <i>Materialia</i> , 2019 , 5, 100250	3.2	25
179	Selective laser melting-fabricated Ti-6Al-4V alloy: Microstructural inhomogeneity, consequent variations in elastic modulus and implications. <i>Optics and Laser Technology</i> , 2019 , 111, 664-670	4.2	23
178	Strong and Ductile Ti-6Al-4V Alloy Produced by Hot Pressing of Ti-6Al-4V Swarf. <i>Jom</i> , 2019 , 71, 1056-1061	11	4
177	Influence of macrosegregation on solidification cracking in laser clad ultra-high strength steels. <i>Surface and Coatings Technology</i> , 2018 , 340, 126-136	4.4	35
176	Metal Alloys for Fusion-Based Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2018 , 20, 17009525	5.5	80
175	Failure modelling and characterisation for pin-reinforced metal-composite joints. <i>Composite Structures</i> , 2018 , 188, 185-196	5.3	11
174	Cost-oriented planning of equipment for selective laser melting (SLM) in production lines. <i>CIRP Annals - Manufacturing Technology</i> , 2018 , 67, 471-474	4.9	11
173	Ultrahigh-strength titanium gyroid scaffolds manufactured by selective laser melting (SLM) for bone implant applications. <i>Acta Materialia</i> , 2018 , 158, 354-368	8.4	159
172	In situ control of tempered martensite during laser cladding repair of aero-grade 300M steel using AISI 420 stainless steel powder. <i>Journal of Laser Applications</i> , 2018 , 30, 032502	2.1	8
171	Inconel 625 lattice structures manufactured by selective laser melting (SLM): Mechanical properties, deformation and failure modes. <i>Materials and Design</i> , 2018 , 157, 179-199	8.1	147
170	Fabrication and anisotropic wettability of titanium-coated microgrooves. <i>Journal of Applied Physics</i> , 2018 , 123, 095306	2.5	14
169	In-situ quench and tempering for microstructure control and enhanced mechanical properties of laser clad AISI 420 stainless steel powder on 300M steel substrates. <i>Surface and Coatings Technology</i> , 2018 , 333, 210-219	4.4	37
168	SLM lattice thermal fields acquired by wide-field thermal camera. <i>Procedia CIRP</i> , 2018 , 74, 122-126	1.8	6
167	50 years of the Laser Institute of America. <i>Journal of Laser Applications</i> , 2018 , 30, 041001	2.1	
166	Cork/PLA composite filaments for fused deposition modelling. <i>Composites Science and Technology</i> , 2018 , 168, 230-237	8.6	81
165	Angle defines attachment: Switching the biological response to titanium interfaces by modifying the inclination angle during selective laser melting. <i>Materials and Design</i> , 2018 , 154, 326-339	8.1	37

164	Effect of energy per layer on the anisotropy of selective laser melted AlSi12 aluminium alloy. <i>Additive Manufacturing</i> , 2018 , 22, 426-439	6.1	47
163	Effect of building direction on porosity and fatigue life of selective laser melted AlSi12Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 729, 76-85	5.3	21
162	Effect of tool wear on chip formation during dry machining of Ti-6Al-4V alloy, part 1: Effect of gradual tool wear evolution. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017 , 231, 1559-1574	2.4	14
161	Effect of tool wear on chip formation during dry machining of Ti-6Al-4V alloy, part 2: Effect of tool failure modes. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017 , 231, 1575-1586	2.4	13
160	Numerical and experimental evaluation of a conformally cooled H13 steel injection mould manufactured with selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 881-900	3.2	87
159	Loading, support and geometry effects for pin-reinforced hybrid metal-composite joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 98, 192-206	8.4	26
158	Programmatic generation of computationally efficient lattice structures for additive manufacture. <i>Rapid Prototyping Journal</i> , 2017 , 23, 486-494	3.8	13
157	In situ tailoring microstructure in additively manufactured Ti-6Al-4V for superior mechanical performance. <i>Acta Materialia</i> , 2017 , 125, 390-400	8.4	311
156	Bioprinting and Biofabrication with Peptide and Protein Biomaterials. <i>Advances in Experimental Medicine and Biology</i> , 2017 , 1030, 95-129	3.6	10
155	New Development in Selective Laser Melting of Ti6Al4V: A Wider Processing Window for the Achievement of Fully Lamellar β Microstructures. <i>Jom</i> , 2017 , 69, 2679-2683	2.1	23
154	The role of lasers in additive manufacturing 2017 , 1-18		24
153	Evaluation of fatigue crack propagation behaviour in Ti-6Al-4V manufactured by selective laser melting. <i>International Journal of Fatigue</i> , 2017 , 104, 302-308	5	49
152	Effect of scan strategy on density and metallurgical properties of 17-4PH parts printed by Selective Laser Melting (SLM). <i>Journal of Materials Processing Technology</i> , 2017 , 249, 502-511	5.3	123
151	Computationally efficient finite difference method for metal additive manufacturing: A reduced-order DFAM tool applied to SLM. <i>Materials and Design</i> , 2017 , 132, 226-243	8.1	29
150	Combining additive manufacturing and catalysis: a review. <i>Catalysis Science and Technology</i> , 2017 , 7, 3423-3439	3.5	58
149	Quantitative fractography and modelling of fatigue crack propagation in high strength AerMet 100 steel repaired with a laser cladding process. <i>International Journal of Fatigue</i> , 2017 , 94, 288-301	5	30
148	Powder bed fusion processes 2017 , 55-77		34
147	Mechanical properties of Ti6Al4V and AlSi12Mg lattice structures manufactured by Selective Laser Melting (SLM) 2017 , 119-161		46

146	Pin pull-out behaviour for hybrid metal-composite joints with integrated reinforcements. <i>Composite Structures</i> , 2016 , 155, 160-172	5.3	21
145	The influence of sterilization on nitrogen-included ultrananocrystalline diamond for biomedical applications. <i>Materials Science and Engineering C</i> , 2016 , 61, 324-32	8.3	19
144	Hierarchical surface features for improved bonding and fracture toughness of metal-metal and metal-composite bonded joints. <i>International Journal of Adhesion and Adhesives</i> , 2016 , 66, 81-92	3.4	24
143	Failure and energy absorption characteristics of advanced 3D truss core structures. <i>Materials and Design</i> , 2016 , 92, 937-948	8.1	76
142	Conductive polyolefin-rubber nanocomposites with carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 80, 13-20	8.4	24
141	Fatigue and fracture behavior of laser clad repair of AerMet-100 ultra-high strength steel. <i>International Journal of Fatigue</i> , 2016 , 85, 18-30	5	48
140	SLM additive manufacture of H13 tool steel with conformal cooling and structural lattices. <i>Rapid Prototyping Journal</i> , 2016 , 22, 504-518	3.8	101
139	Selective laser melting (SLM) of AlSi12Mg lattice structures. <i>Materials and Design</i> , 2016 , 98, 344-357	8.1	234
138	Topological design and additive manufacturing of porous metals for bone scaffolds and orthopaedic implants: A review. <i>Biomaterials</i> , 2016 , 83, 127-41	15.6	1008
137	Predicting the likely causes of early crack initiation for extruded aircraft components containing intergranular corrosion. <i>International Journal of Fatigue</i> , 2016 , 82, 700-707	5	2
136	Electrical discharge grinding versus abrasive grinding in polycrystalline diamond machining-tool quality and performance analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 85, 263-277	3.2	17
135	Deformation and failure behaviour of Ti-6Al-4V lattice structures manufactured by selective laser melting (SLM) 2016 , 84, 1391		1
134	Creep and Recovery Behaviour of Polyolefin-Rubber Nanocomposites Developed for Additive Manufacturing. <i>Polymers</i> , 2016 , 8,	4.5	24
133	Additive manufacture of anti-biofouling inserts for marine applications. <i>Rapid Prototyping Journal</i> , 2016 , 22, 416-434	3.8	6
132	Additive manufacturing and postprocessing of Ti-6Al-4V for superior mechanical properties. <i>MRS Bulletin</i> , 2016 , 41, 775-784	3.2	148
131	Microstructure and hardness characterisation of laser coatings produced with a mixture of AISI 420 stainless steel and Fe-C-Cr-Nb-B-Mo steel alloy powders. <i>Surface and Coatings Technology</i> , 2016 , 296, 76-87	4.4	19
130	Just-in-time Design and Additive Manufacture of Patient-specific Medical Implants. <i>Physics Procedia</i> , 2016 , 83, 4-14		32
129	Model-driven design of a fast material removal electrical discharge machine. <i>Cogent Engineering</i> , 2016 , 3, 1233801	1.5	7

128	Additive manufacture of custom radiation dosimetry phantoms: An automated method compatible with commercial polymer 3D printers. <i>Materials and Design</i> , 2015 , 86, 487-499	8.1	34
127	Laser surface treatment to improve the surface corrosion properties of nickel-aluminum bronze 2015 , 469-481		7
126	Effect of cryogenic compressed air on the evolution of cutting force and tool wear during machining of Ti6Al4V alloy. <i>Journal of Materials Processing Technology</i> , 2015 , 221, 243-254	5.3	63
125	Deformation and failure behaviour of Ti-6Al-4V lattice structures manufactured by selective laser melting (SLM). <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 84, 1391	3.2	45
124	An Approach for Personalised Product Development. <i>Procedia Technology</i> , 2015 , 20, 191-198		6
123	[DesktopLabs] Desktop Laboratories: Web Share and Additive Manufacture of Engineering Educational Models. <i>Procedia Technology</i> , 2015 , 20, 111-116		1
122	Mechanical response of TiAl6V4 lattice structures manufactured by selective laser melting in quasistatic and dynamic compression tests. <i>Journal of Laser Applications</i> , 2015 , 27, S17006	2.1	43
121	Additive manufacturing of strong and ductile Ti6Al4V by selective laser melting via in situ martensite decomposition. <i>Acta Materialia</i> , 2015 , 85, 74-84	8.4	620
120	Fatigue life of laser clad hardfacing alloys on AISI 4130 steel under rotary bending fatigue test. <i>International Journal of Fatigue</i> , 2015 , 72, 42-52	5	24
119	Programmatic Lattice Generation for Additive Manufacture. <i>Procedia Technology</i> , 2015 , 20, 178-184		27
118	Design of a Personalised Faceguard for an Elite Cricketer. <i>Procedia Technology</i> , 2015 , 20, 199-205		2
117	Direct Metal Deposition of H13 Tool Steel on Copper Alloy Substrate: Parametric Investigation. <i>Lasers in Manufacturing and Materials Processing</i> , 2015 , 2, 242-260	2.1	9
116	Evaluation of microstructure and fatigue properties in laser cladding repair of ultrahigh strength AerMet \square 100 steel. <i>Journal of Laser Applications</i> , 2015 , 27, S29202	2.1	7
115	In Situ Synchrotron Radiation Study of TiH ₂ -6Al-4V and Ti-6Al-4V: Accelerated Alloying and Phase Transformation, and Formation of an Oxygen-Enriched Ti ₄ Fe ₂ O Phase in TiH ₂ -6Al-4V. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 41-45	2.3	10
114	Ti-6Al-4V Additively Manufactured by Selective Laser Melting with Superior Mechanical Properties. <i>Jom</i> , 2015 , 67, 668-673	2.1	118
113	Challenges of Scale Modelling Material Behaviour of Additive-Manufactured Nodes 2015 , 45-51		4
112	Performance of bio-inspired Kagome truss core structures under compression and shear loading. <i>Composite Structures</i> , 2014 , 118, 294-302	5.3	54
111	Optimal topology for additive manufacture: A method for enabling additive manufacture of support-free optimal structures. <i>Materials & Design</i> , 2014 , 63, 678-690		213

110	The role of microstructural characteristics in the cavitation erosion behaviour of laser melted and laser processed Nickel-Aluminium Bronze. <i>Wear</i> , 2014 , 317, 56-63	3.5	23
109	Repair of aircraft components by laser cladding process 2014 ,		1
108	Mechanical properties of selective laser melted Ti-6Al-4V with different layer thickness 2014 ,		1
107	Numerical methods to predict overheating in SLM lattice structures 2014 ,		3
106	Review of effect of oxygen on room temperature ductility of titanium and titanium alloys. <i>Powder Metallurgy</i> , 2014 , 57, 251-257	1.9	139
105	Evolution of tool wear and its effect on cutting forces during dry machining of Ti-6Al-4V alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2014 , 228, 191-202	2.4	49
104	The Effect of Manufacturing Defects on the Fatigue Behaviour of Ti-6Al-4V Specimens Fabricated Using Selective Laser Melting. <i>Advanced Materials Research</i> , 2014 , 891-892, 1519-1524	0.5	89
103	Comparison of Endmill Tool Coating Performance during Machining of Ti6Al4V Alloy. <i>Advanced Materials Research</i> , 2014 , 974, 126-131	0.5	4
102	Tool Life Study of Coated/Uncoated Carbide Inserts during Turning of Ti6Al4V. <i>Advanced Materials Research</i> , 2014 , 974, 136-140	0.5	2
101	The Role of Metallurgical Solid State Phase Transformations on the Formation of Residual Stress in Laser Cladding and Heating. <i>Materials Science Forum</i> , 2014 , 777, 19-24	0.4	6
100	Bioactive coatings for orthopaedic implants-recent trends in development of implant coatings. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 11878-921	6.3	239
99	A Model for Predicting the Stress Concentration of Intergranular Corrosion around a Fastener Hole. <i>Advanced Materials Research</i> , 2014 , 891-892, 242-247	0.5	3
98	Tensile strength of functionally graded and wafer layered structures produced by direct metal deposition. <i>Rapid Prototyping Journal</i> , 2014 , 20, 360-368	3.8	8
97	Experimental Study of Wheel Rotating Speed Effect on Electrical Discharge Grinding. <i>Applied Mechanics and Materials</i> , 2014 , 697, 275-279	0.3	2
96	Measurement of Polycrystalline Diamond Craters in Electrical Discharge Machining. <i>Applied Mechanics and Materials</i> , 2014 , 664, 304-309	0.3	3
95	Modelling the effects of intergranular corrosion around a fastener hole in 7075-T651 aluminium alloy. <i>Computational Materials Science</i> , 2014 , 84, 74-82	3.2	9
94	The role of microstructure in the stress relaxation and tempering of laser clad Ti6Al4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 601, 65-69	5.3	13
93	Effect of laser clad repair on the fatigue behaviour of ultra-high strength AISI 4340 steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 606, 46-57	5.3	85

92	Thermal expansion of functionally graded and wafer-layered structures produced by laser direct metal deposition. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 69, 2011-2018	3.2	10
91	Evaluation of Microstructure and Mechanical Properties at the Interface Region of Laser-Clad Stellite 6 on Steel Using Nanoindentation. <i>Metallography, Microstructure, and Analysis</i> , 2013 , 2, 328-336	1.1	15
90	Current Progresses of Laser Assisted Machining of Aerospace Materials for Enhancing Tool Life. <i>Advanced Materials Research</i> , 2013 , 690-693, 3359-3364	0.5	
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