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List of Publications by Year
in descending order

326 papers	17,386 citations	20817 60 h-index	18647 119 g-index
331 all docs	331 docs citations	331 times ranked	10628 citing authors

#	Article	IF	Citations
1	Laser powder bed fusion additive manufacturing (LPBF-AM): the influence of design features and LPBF variables on surface topography and effect on fatigue properties. Critical Reviews in Solid State and Materials Sciences, 2023, 48, 132-168.	12.3	23
2	Robust bulk micro-nano hierarchical copper structures possessing exceptional bactericidal efficacy. Biomaterials, 2022, 280, 121271.	11.4	15
3	Microstructure modification of additive manufactured Ti-6Al-4V plates for improved ballistic performance properties. Journal of Materials Processing Technology, 2022, 301, 117436.	6.3	19
4	Variant selection in additively manufactured alpha-beta titanium alloys. Journal of Materials Science and Technology, 2022, 113, 14-21.	10.7	29
5	Geometrical parameters and mechanical properties of Ti6Al4V hollow-walled lattices. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142667.	5.6	16
6	Identification of unusual large zones of Category I triple-alpha-variant clusters in additively manufactured Ti-4Al-2V alloy. Scripta Materialia, 2022, 212, 114578.	5.2	2
7	A Digital-Twin Methodology for the Non-destructive Certification of Lattice Structures. Jom, 2022, 74, 1784-1797.	1.9	6
8	Alloy solidification: Assessment and improvement of an easy-to-apply model. Journal of Materials Science and Technology, 2022, 130, 1-11.	10.7	6
9	Fatigue behaviour of laser powder bed fusion (L-PBF) Tiâ€“6Alâ€“4V, Alâ€“Siâ€“Mg and stainless steels: a brief overview. International Journal of Fracture, 2022, 235, 3-46.	2.2	9
10	Perspectives on additive manufacturing for dynamic impact applications. Materials and Design, 2022, 221, 110963.	7.0	14
11	Additive manufacturing of Ti-6Al-4V horizontal hollow struts with submillimetre wall thickness by laser powder bed fusion. Thin-Walled Structures, 2022, 179, 109620.	5.3	7
12	Additive manufacturing of intricate lattice materials: Ensuring robust strut additive continuity to realize the design potential. Additive Manufacturing, 2022, 58, 103022.	3.0	2
13	Dissolution Kinetics of Iron-Based Intermetallic Compounds (Ï„5c IMCs) in a Commercial Steel Strip Metallic Alloy Coating Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 41-50.	2.1	2
14	Grain refinement of stainless steel in ultrasound-assisted additive manufacturing. Additive Manufacturing, 2021, 37, 101632.	3.0	29
15	Integrating data mining and machine learning to discover high-strength ductile titanium alloys. Acta Materialia, 2021, 202, 211-221.	7.9	85
16	3D printed sandwich beams with bioinspired cores: Mechanical performance and modelling. Thin-Walled Structures, 2021, 161, 107471.	5.3	63
17	Development of coreâ€“shell-structured Ti-(N) powders for additive manufacturing and comparison of tensile properties of the additively manufactured and spark-plasma-sintered Ti-N alloys. Advanced Powder Technology, 2021, 32, 2379-2389.	4.1	4
18	Thermodynamic and Kinetic Analyses of the Removal of Impurity Titanium and Vanadium from Molten Aluminum for Electrical Conductor Applications. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 3130-3141.	2.1	6

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19	Near room-temperature formation of Cu3Sn: In-situ synchrotron X-ray diffraction characterization and thermodynamic assessments of its nucleation. Acta Materialia, 2021, 213, 116894.	7.9	4
20	Microstructure, tensile properties and deformation behaviour of a promising bio-applicable new Ti35Zr15Nb25Ta25 medium entropy alloy (MEA). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 824, 141805.	5.6	16
21	Improved ballistic performance of additively manufactured Ti6Al4V with Î±-Î² lamellar microstructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 825, 141888.	5.6	10
22	Coupling effects of high magnetic field and annealing on the microstructure evolution and mechanical properties of additive manufactured Tiâ€“6Alâ€“4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 824, 141815.	5.6	18
23	Hollow-walled lattice materials by additive manufacturing: Design, manufacture, properties, applications and challenges. Current Opinion in Solid State and Materials Science, 2021, 25, 100940.	11.5	31
24	Buckling phenomena in AM lattice strut elements: A design tool applied to Ti-6Al-4V LB-PBF. Materials and Design, 2021, 208, 109892.	7.0	14
25	Simulation-informed laser metal powder deposition of Ti-6Al-4V with ultrafine Î±-Î² lamellar structures for desired tensile properties. Additive Manufacturing, 2021, 46, 102139.	3.0	16
26	Improving the accuracy and reliability of temperature field simulation during laser metal deposition. Australian Journal of Mechanical Engineering, 2021, 19, 630-641.	2.1	1
27	Manufacturability of Ti-6Al-4V Hollow-Walled Lattice Struts by Laser Powder Bed Fusion. Jom, 2021, 73, 4199-4208.	1.9	10
28	The Effect of PostProcessing on the Ductility and Strength of Ti-6Al-4V Lattice Materials. Jom, 2021, 73, 4119-4129.	1.9	4
29	Architectured hierarchical porous metals enabled by additive manufacturing. Australian Journal of Mechanical Engineering, 2021, 19, 669-679.	2.1	3
30	Influence of deposition strategy on the microstructure and fatigue properties of laser metal deposited Ti-6Al-4V powder on Ti-6Al-4V substrate. International Journal of Fatigue, 2020, 130, 105236.	5.7	47
31	Fabrication of the Ï„5c Intermetallic Compound Monoliths by a Novel Powder Metallurgy and Hot-Dipping Approach. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 836-849.	2.1	5
32	Grain structure control during metal 3D printing by high-intensity ultrasound. Nature Communications, 2020, 11, 142.	12.8	416
33	In situ hydrothermal transformation of titanium surface into lithium-doped continuous nanowire network towards augmented bioactivity. Applied Surface Science, 2020, 505, 144604.	6.1	18
34	Extraordinary reinforcing effect of carbon nanotubes in aluminium matrix composites assisted by in-situ alumina nanoparticles. Composites Part B: Engineering, 2020, 183, 107691.	12.0	93
35	Characteristics of oxide films on Ti-(10â€“75)Ta alloys and their corrosion performance in an aerated Hankâ€™s balanced salt solution. Applied Surface Science, 2020, 506, 145013.	6.1	30
36	Tensile properties improvement by homogenized nitrogen solid solution strengthening of commercially pure titanium through powder metallurgy process. Materials Characterization, 2020, 170, 110700.	4.4	22

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37	Non-destructive simulation of node defects in additively manufactured lattice structures. Additive Manufacturing, 2020, 36, 101593.	3.0	20
38	Graphene-strengthened Inconel 625 Alloy Fabricated by Selective Laser Melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140099.	5.6	21
39	Cuboid-like nanostructure strengthened equiatomic Tiâ€“Zrâ€“Nbâ€“Ta medium entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140169.	5.6	32
40	Microstructure, tensile properties and deformation behaviors of aluminium metal matrix composites co-reinforced by ex-situ carbon nanotubes and in-situ alumina nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 139930.	5.6	42
41	Ultra-High-Speed Laser Cladding of StelliteÂ® 6 Alloy on Mild Steel. Jom, 2020, 72, 4632-4638.	1.9	12
42	Surface Engineering: Applications for Advanced Manufacturing. Jom, 2020, 72, 4574-4575.	1.9	1
43	Adoption and Diffusion of Disruptive Technologies: The Case of Additive Manufacturing in Medical Technology Industry in Australia. Procedia Manufacturing, 2020, 43, 18-24.	1.9	8
44	Sintering of titanium in argon and vacuum: Pore evolution and mechanical properties. International Journal of Refractory Metals and Hard Materials, 2020, 90, 105226.	3.8	18
45	Liquid metal dealloying of titanium-tantalum (Ti-Ta) alloy to fabricate ultrafine Ta ligament structures: A comparative study in molten copper (Cu) and Cu-based alloys. Corrosion Science, 2020, 169, 108600.	6.6	14
46	Grain Refinement of Alloys in Fusion-Based Additive Manufacturing Processes. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4341-4359.	2.2	115
47	Strength-ductility improvement of extruded Ti-(N) materials using pure Ti powder with high nitrogen solution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 779, 139136.	5.6	29
48	Fatigue Performance of Additively Manufactured Ti-6Al-4V: Surface Condition vs. Internal Defects. Jom, 2020, 72, 1022-1030.	1.9	22
49	Metal injection moulding of surgical tools, biomaterials and medical devices: A review. Powder Technology, 2020, 364, 189-204.	4.2	55
50	Microstructural modification of recycled aluminium alloys by high-intensity ultrasonication: Observations from custom Alâ€“2Siâ€“2Mgâ€“1.2Feâ€“(0.5,1.0)Mn alloys. Journal of Alloys and Compounds, 2020, 823, 153833.	5.5	22
51	A Monte Carlo simulation-based approach to realistic modelling of additively manufactured lattice structures. Additive Manufacturing, 2020, 32, 101092.	3.0	32
52	Additive Manufacturingâ€”The 2nd Asiaâ€“Pacific International Conference on Additive Manufacturing (APICAM 2019). Jom, 2020, 72, 997-998.	1.9	1
53	Adaptive Concurrent Topology Optimization of Cellular Composites for Additive Manufacturing. Jom, 2020, 72, 2378-2390.	1.9	26
54	Effect of additive manufactured lattice defects on mechanical properties: an automated method for the enhancement of lattice geometry. International Journal of Advanced Manufacturing Technology, 2020, 108, 957-971.	3.0	41

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55	Microstructure and isothermal oxidation behavior of Nb-Ti-Si-based alloy additively manufactured by powder-feeding laser directed energy deposition. Corrosion Science, 2020, 173, 108757.	6.6	14
56	High oxygen-content titanium and titanium alloys made from powder. Journal of Alloys and Compounds, 2020, 836, 155526.	5.5	33
57	SLM lattice structures: Properties, performance, applications and challenges. Materials and Design, 2019, 183, 108137.	7.0	689
58	Atomic Structural Competition in the Al85.5Ni9.5La5 Alloy During Liquid-to-Solid Transition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3441-3445.	2.2	4
59	Titanium-Doped Copper-Diamond Composites Fabricated by Hot-Forging of Powder Mixtures or Cold-Pressed Powder Preforms. Jom, 2019, 71, 4867-4871.	1.9	7
60	Effect of polygon order on additively manufactured lattice structures: a method for defining the threshold resolution for lattice geometry. International Journal of Advanced Manufacturing Technology, 2019, 105, 2501-2511.	3.0	13
61	Additively manufactured titanium artworks. , 2019, , 173-184.		1
62	Experimental and numerical assessment of surface roughness for Ti6Al4V lattice elements in selective laser melting. International Journal of Advanced Manufacturing Technology, 2019, 105, 1275-1293.	3.0	34
63	Effect of geometry on the mechanical properties of Ti-6Al-4V Gyroid structures fabricated via SLM: A numerical study. Materials and Design, 2019, 184, 108165.	7.0	134
64	The Role of Ultrasonically Induced Acoustic Streaming in Developing Fine Equiaxed Grains During the Solidification of an Al-2ÂPct Cu Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5253-5263.	2.2	14
65	New insights into nickel-free superelastic titanium alloys for biomedical applications. Current Opinion in Solid State and Materials Science, 2019, 23, 100783.	11.5	36
66	In situ doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. Nanoscale Horizons, 2019, 4, 642-646.	8.0	10
67	3D characterization of defects in deep-powder-bed manufactured Tiâ€“6Alâ€“4V and their influence on tensile properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 761, 138031.	5.6	40
68	Spark Plasma Sintering of Ti-48Al-2Cr-2Nb Alloy Powder and Characterization of an Unexpected Phase. Jom, 2019, 71, 2556-2563.	1.9	3
69	Intensified texture in selective electron beam melted Ti-6Al-4V thin plates by hot isostatic pressing and its fundamental influence on tensile fracture and properties. Materials Characterization, 2019, 152, 162-168.	4.4	19
70	Osteoblast Responses to Titanium-Coated Subcellular Scaled Microgrooves. ACS Applied Bio Materials, 2019, 2, 2405-2413.	4.6	13
71	Recent Advances in the Design and Fabrication of Strong and Ductile (Tensile) Titanium Metal Matrix Composites. Advanced Engineering Materials, 2019, 21, 1801331.	3.5	24
72	Effect of ultrasonic melt treatment on intermetallic phase formation in a manganese-modified Al-17Si-2Fe alloy. Journal of Materials Processing Technology, 2019, 271, 346-356.	6.3	20

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73	Computational modelling of strut defects in SLM manufactured lattice structures. Materials and Design, 2019, 171, 107671.	7.0	163
74	In-situ and ex-situ synchrotron X-ray diffraction studies of microstructural length scale controlled dealloying. Acta Materialia, 2019, 168, 376-392.	7.9	13
75	Effect of Ultrasonication on the Solidification Microstructure in Al and Mg-Alloys. Minerals, Metals and Materials Series, 2019, , 1589-1595.	0.4	1
76	Selective laser melting-fabricated Ti-6Al-4V alloy: Microstructural inhomogeneity, consequent variations in elastic modulus and implications. Optics and Laser Technology, 2019, 111, 664-670.	4.6	30
77	Compositional design of strong and ductile (tensile) Ti-Zr-Nb-Ta medium entropy alloys (MEAs) using the atomic mismatch approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 762-772.	5.6	55
78	Strong and Ductile Ti-6Al-4V Alloy Produced by Hot Pressing of Ti-6Al-4V Swarf. Jom, 2019, 71, 1056-1061.	1.9	6
79	Impacts of Defocusing Amount and Molten Pool Boundaries on Mechanical Properties and Microstructure of Selective Laser Melted AlSi10Mg. Materials, 2019, 12, 73.	2.9	18
80	Selective Electron Beam Manufacturing of Ti-6Al-4V Strips: Effect of Build Orientation, Columnar Grain Orientation, and Hot Isostatic Pressing on Tensile Properties. Jom, 2018, 70, 638-643.	1.9	12
81	A comparative study of the effect of submicron porous and smooth ultrafineâ€grained Tiâ€20Mo surfaces on osteoblast responses. Journal of Biomedical Materials Research - Part A, 2018, 106, 2020-2033.	4.0	12
82	The enabling role of dealloying in the creation of specific hierarchical porous metal structuresâ€”A review. Corrosion Science, 2018, 134, 78-98.	6.6	97
83	Metal Alloys for Fusionâ€Based Additive Manufacturing. Advanced Engineering Materials, 2018, 20, 1700952.	3.5	126
84	Metal injection moulding of non-spherical titanium powders: Processing, microstructure and mechanical properties. Journal of Manufacturing Processes, 2018, 31, 416-423.	5.9	34
85	The effect of ordered and partially ordered surface topography on bone cell responses: a review. Biomaterials Science, 2018, 6, 250-264.	5.4	86
86	The Î² phase evolution in Ti-6Al-4V additively manufactured by laser metal deposition due to cyclic phase transformations. Materials Letters, 2018, 216, 50-53.	2.6	15
87	Microwave processing of titanium and titanium alloys for structural, biomedical and shape memory applications: Current status and challenges. Materials and Manufacturing Processes, 2018, 33, 35-49.	4.7	18
88	Microstructural development of electron beam processed Al-3Ti-1Sc alloy under different electron beam scanning speeds. Materials Characterization, 2018, 143, 43-49.	4.4	14
89	In situ preparation of TiB nanowires for high-performance Ti metal matrix nanocomposites. Journal of Alloys and Compounds, 2018, 735, 2640-2645.	5.5	50
90	Solidification of Aluminium Alloys Under Ultrasonication: An Overview. Transactions of the Indian Institute of Metals, 2018, 71, 2681-2686.	1.5	9

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91	Porous Titanium Scaffolds Fabricated by Metal Injection Moulding for Biomedical Applications. Materials, 2018, 11, 1573.	2.9	16
92	Mechanical properties, in vitro corrosion resistance and biocompatibility of metal injection molded Ti-12Mo alloy for dental applications. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 88, 534-547.	3.1	63
93	Selective electron beam manufactured Ti-6Al-4V lattice structures for orthopedic implant applications: Current status and outstanding challenges. Current Opinion in Solid State and Materials Science, 2018, 22, 75-99.	11.5	165
94	Effect of building direction on porosity and fatigue life of selective laser melted AlSi12Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 76-85.	5.6	38
95	Zirconium Alloys for Orthopaedic and Dental Applications. Advanced Engineering Materials, 2018, 20, 1800207.	3.5	71
96	Inconel 625 lattice structures manufactured by selective laser melting (SLM): Mechanical properties, deformation and failure modes. Materials and Design, 2018, 157, 179-199.	7.0	285
97	Redefining the Î²-Phase Stability in Ti-Nb-Zr Alloys for Alloy Design and Microstructural Prediction. Jom, 2018, 70, 2254-2259.	1.9	23
98	Toward Manufacturing Quality Ti-6Al-4V Lattice Struts by Selective Electron Beam Melting (SEBM) for Lattice Design. Jom, 2018, 70, 1870-1876.	1.9	26
99	Atomic Distance Tuning Effect for Nucleation in Liquid Iron. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4419-4423.	2.2	5
100	A novel quaternary equiatomic Ti-Zr-Nb-Ta medium entropy alloy (MEA). Intermetallics, 2018, 101, 39-43.	3.9	86
101	Fabrication and anisotropic wettability of titanium-coated microgrooves. Journal of Applied Physics, 2018, 123, .	2.5	18
102	Powder Metallurgy of Non-Ferrous Metals: Part I. Jom, 2018, 70, 614-615.	1.9	0
103	Ductility Improvement Mechanism of Pure Titanium with Excessive Oxygen Solid Solution via Rapid Cooling Process. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2018, 82, 390-395.	0.4	9
104	Ni-free superelastic titanium alloys for medical and dental applications. , 2018, , 591-611.		1
105	Enabling the development of ductile powder metallurgy titanium alloys by a unique scavenger of oxygen and chlorine. Journal of Alloys and Compounds, 2018, 764, 467-475.	5.5	22
106	Titanium background, alloying behavior and advanced fabrication techniquesâ€"An overview. , 2018, , 23-37.		3
107	Fundamental Understanding of the Dissolution of Oxide Film on Ti Powder and the Unique Scavenging Feature by LaB6. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 1-6.	2.2	22
108	Microstructure, Mechanical Properties, and Flatness of SEBM Ti-6Al-4V Sheet in As-Built and Hot Isostatically Pressed Conditions. Jom, 2017, 69, 466-471.	1.9	27

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109	Influence of the laser pre-quenched substrate on an electroplated chromium coating/steel substrate. Applied Surface Science, 2017, 405, 273-279.	6.1	15
110	Characterization and decompositional crystallography of the massive phase grains in an additively-manufactured Ti-6Al-4V alloy. Materials Characterization, 2017, 127, 146-152.	4.4	26
111	Effect of Dy addition on microstructure and mechanical properties of Mg-4Y-3Nd-0.4Zr alloy. Transactions of Nonferrous Metals Society of China, 2017, 27, 797-803.	4.2	11
112	Initial crystallisation or nucleation in a liquid aluminium alloy containing spinel seeds. Materials Letters, 2017, 196, 358-360.	2.6	6
113	In situ tailoring microstructure in additively manufactured Ti-6Al-4V for superior mechanical performance. Acta Materialia, 2017, 125, 390-400.	7.9	450
114	Additive Manufacturing of Titanium Alloys. Jom, 2017, 69, 2677-2678.	1.9	11
115	The Effect of Ultrasonic Melt Treatment on Macro-Segregation and Peritectic Transformation in an Al-19Si-4Fe Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5579-5590.	2.2	31
116	New Development in Selective Laser Melting of Tiâ€“6Alâ€“4V: A Wider Processing Window for the Achievement of Fully Lamellar Î±Â+ÂÎ² Microstructures. Jom, 2017, 69, 2679-2683.	1.9	38
117	Boron nitride nanotube reinforced titanium metal matrix composites with excellent high-temperature performance. Journal of Materials Research, 2017, 32, 3744-3752.	2.6	24
118	Reducing electric current and energy consumption of spark plasma sintering via punch configuration design. Ceramics International, 2017, 43, 17225-17228.	4.8	4
119	Role of ultrasonic treatment, inoculation and solute in the grain refinement of commercial purity aluminium. Scientific Reports, 2017, 7, 9729.	3.3	46
120	Selective laser melting of H13: microstructure and residual stress. Journal of Materials Science, 2017, 52, 12476-12485.	3.7	127
121	Layer Additive Production or Manufacturing of Thick Sections of Ti-6Al-4V by Selective Electron Beam Melting (SEBM). Jom, 2017, 69, 1836-1843.	1.9	16
122	High tensile-strength and ductile titanium matrix composites strengthened by TiB nanowires. Scripta Materialia, 2017, 141, 133-137.	5.2	120
123	Grain refinement of binary Al-Si, Al-Cu and Al-Ni alloys by ultrasonication. Journal of Materials Processing Technology, 2017, 249, 367-378.	6.3	47
124	On the microstructural refinement in commercial purity Al and Al-10 wt% Cu alloy under ultrasonication during solidification. Materials and Design, 2017, 132, 266-274.	7.0	54
125	Enhanced Homogenization of Vanadium in Spark Plasma Sintering of Ti-10V-2Fe-3Al Alloy from Titanium and V-Fe-Al Master Alloy Powder Blends. Jom, 2017, 69, 663-668.	1.9	3
126	Sintering and Related Phenomena. Jom, 2017, 69, 628-629.	1.9	2

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127	Metal injection moulding of titanium and titanium alloys: Challenges and recent development. Powder Technology, 2017, 319, 289-301.	4.2	115
128	High-tensile-strength and ductile novel Ti-Fe-N-B alloys reinforced with TiB nanowires. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 708, 285-290.	5.6	13
129	Optical Aptasensors for Adenosine Triphosphate. Theranostics, 2016, 6, 1683-1702.	10.0	43
130	Enzyme Mimics: Advances and Applications. Chemistry - A European Journal, 2016, 22, 8404-8430.	3.3	253
131	Additive manufacturing and postprocessing of Ti-6Al-4V for superior mechanical properties. MRS Bulletin, 2016, 41, 775-784.	3.5	197
132	Novel synthesis and consolidation of powder materials. Powder Metallurgy, 2016, 59, 169-169.	1.7	0
133	Advances in Sintering. Jom, 2016, 68, 876-877.	1.9	1
134	Synthetic genetic polymers: advances and applications. Polymer Chemistry, 2016, 7, 5199-5216.	3.9	18
135	Variation in pore distribution along sample length in sintered 7xxx aluminum alloy. Transactions of Nonferrous Metals Society of China, 2016, 26, 2019-2028.	4.2	2
136	Grain Refinement of an Al-2 wt%Cu Alloy by Al3Ti1B Master Alloy and Ultrasonic Treatment. IOP Conference Series: Materials Science and Engineering, 2016, 117, 012050.	0.6	13
137	Electrochemical nucleic acid biosensors: from fabrication to application. Analytical Methods, 2016, 8, 5169-5189.	2.7	16
138	Fabrication of High Strength and Ductile Stainless Steel Fiber Felts by Sintering. Jom, 2016, 68, 890-898.	1.9	7
139	The crystallographic features of Ï„3 phase in a powder metallurgy nickel-doped Tiâ€“45Alâ€“5Nbâ€“0.2Câ€“0.2Bâ€“1.25Ni alloy. Intermetallics, 2016, 71, 65-72.	3.9	4
140	Identifying and understanding the effect of milling energy on the synthesis of carbon nanotubes reinforced titanium metal matrix composites. Carbon, 2016, 99, 384-397.	10.3	77
141	The Influence of As-Built Surface Conditions on Mechanical Properties of Ti-6Al-4V Additively Manufactured by Selective Electron Beam Melting. Jom, 2016, 68, 791-798.	1.9	99
142	A Honeycomb-Structured Ti-6Al-4V Oilâ€“Gas Separation Rotor Additively Manufactured by Selective Electron Beam Melting for Aero-engine Applications. Jom, 2016, 68, 799-805.	1.9	16
143	Selective laser melting (SLM) of AlSi12Mg lattice structures. Materials and Design, 2016, 98, 344-357.	7.0	355
144	Topological design and additive manufacturing of porous metals for bone scaffolds and orthopaedic implants: A review. Biomaterials, 2016, 83, 127-141.	11.4	1,492

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145	Massive transformation in Tiâ€“6Alâ€“4V additively manufactured by selective electron beam melting. Acta Materialia, 2016, 104, 303-311.	7.9	155
146	Comparison of electromagnetic and piezoelectric vibration energy harvesters with different interface circuits. Mechanical Systems and Signal Processing, 2016, 72-73, 906-924.	8.0	32
147	Recent advances in grain refinement of light metals and alloys. Current Opinion in Solid State and Materials Science, 2016, 20, 13-24.	11.5	222
148	Electrochemical Dealloying of a Ternary Al67Cu18Sn15 Alloy Compared with that of a Binary Al75Cu25 Alloy. ECS Transactions, 2015, 66, 23-30.	0.5	0
149	CFD modelling of nitrogen gas flow pattern during sintering of Alâ€“7Znâ€“2.5Mgâ€“1Cu alloy and its effect on distortion. Powder Metallurgy, 2015, 58, 112-122.	1.7	2
150	Quantitative Analyses of MWCNTâ€Ti Powder Mixtures using Raman Spectroscopy: The Influence of Milling Parameters on Nanostructural Evolution. Advanced Engineering Materials, 2015, 17, 1660-1669.	3.5	78
151	The Contribution of Constitutional Supercooling to Nucleation and Grain Formation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4868-4885.	2.2	123
152	Concurrence of de-alloying and re-alloying in a ternary Al₆₇Cu₁₈Sn₁₅ alloy and the fabrication of 3D nanoporous Cuâ€“Sn composite structures. RSC Advances, 2015, 5, 9574-9580.	3.6	7
153	Microstructure and Mechanical Properties of Long Ti-6Al-4V Rods Additively Manufactured by Selective Electron Beam Melting Out of a Deep Powder Bed and the Effect of Subsequent Hot Isostatic Pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3824-3834.	2.2	99
154	In Situ Synchrotron Radiation Study of TiH2-6Al-4V and Ti-6Al-4V: Accelerated Alloying and Phase Transformation, and Formation of an Oxygen-Enriched Ti4Fe2O Phase in TiH2-6Al-4V. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 41-45.	2.2	12
155	Ti-6Al-4V Additively Manufactured by Selective Laser Melting with Superior Mechanical Properties. Jom, 2015, 67, 668-673.	1.9	168
156	Porous titanium structures and applications. , 2015, , 533-554.		12
157	Spark plasma sintering and hot pressing of titanium and titanium alloys. , 2015, , 219-235.		24
158	Manipulation and Characterization of a Novel Titanium Powder Precursor for Additive Manufacturing Applications. Jom, 2015, 67, 564-572.	1.9	62
159	Effect of Powder Reuse Times on Additive Manufacturing of Ti-6Al-4V by Selective Electron Beam Melting. Jom, 2015, 67, 555-563.	1.9	338
160	Metal Powder for Additive Manufacturing. Jom, 2015, 67, 536-537.	1.9	46
161	A yttrium-containing high-temperature titanium alloy additively manufactured by selective electron beam melting. Journal of Central South University, 2015, 22, 2857-2863.	3.0	11
162	Creation of bimodal porous copper materials by an annealing-electrochemical dealloying approach. Electrochimica Acta, 2015, 164, 288-296.	5.2	49

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