

M Qian

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.

320
papers

12,110
citations

54
h-index

100
g-index

331
ext. papers

14,692
ext. citations

4.3
avg, IF

6.89
L-index

#	Paper	IF	Citations
3 ²⁰	Geometrical parameters and mechanical properties of Ti6Al4V hollow-walled lattices. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 142667-73	5.3	1
3 ¹⁹	Identification of unusual large zones of Category I triple-alpha-variant clusters in additively manufactured Ti-4Al-2V alloy. <i>Scripta Materialia</i> , 2022 , 212, 114578	5.6	0
3 ¹⁸	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
3 ¹⁷	Variant selection in additively manufactured alpha-beta titanium alloys. <i>Journal of Materials Science and Technology</i> , 2022 , 113, 14-21	9.1	2
3 ¹⁶	A Digital-Twin Methodology for the Non-destructive Certification of Lattice Structures. <i>Jom</i> , 2022 , 74, 1784-1797	2.1	1
3 ¹⁵	Robust bulk micro-nano hierarchical copper structures possessing exceptional bactericidal efficacy. <i>Biomaterials</i> , 2021 , 280, 121271	15.6	0
3 ¹⁴	Manufacturability of Ti-Al-4V Hollow-Walled Lattice Struts by Laser Powder Bed Fusion. <i>Jom</i> , 2021 , 73, 4199	2.1	1
3 ¹³	The Effect of PostProcessing on the Ductility and Strength of Ti-6Al-4V Lattice Materials. <i>Jom</i> , 2021 , 73, 4119	2.1	1
3 ¹²	3D printed sandwich beams with bioinspired cores: Mechanical performance and modelling. <i>Thin-Walled Structures</i> , 2021 , 161, 107471	4.7	19
3 ¹¹	Development of core-shell-structured Ti-(N) powders for additive manufacturing and comparison of tensile properties of the additively manufactured and spark-plasma-sintered Ti-N alloys. <i>Advanced Powder Technology</i> , 2021 , 32, 2379-2379	4.6	2
3 ¹⁰	Thermodynamic and Kinetic Analyses of the Removal of Impurity Titanium and Vanadium from Molten Aluminum for Electrical Conductor Applications. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 3130-3141	2.5	2
3 ⁰⁹	Near room-temperature formation of Cu ₃ Sn: In-situ synchrotron X-ray diffraction characterization and thermodynamic assessments of its nucleation. <i>Acta Materialia</i> , 2021 , 213, 116894	8.4	1
3 ⁰⁸	Dissolution Kinetics of Iron-Based Intermetallic Compounds (Fe IMCs) in a Commercial Steel Strip Metallic Alloy Coating Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 41-50	2.5	2
3 ⁰⁷	Grain refinement of stainless steel in ultrasound-assisted additive manufacturing. <i>Additive Manufacturing</i> , 2021 , 37, 101632	6.1	6
3 ⁰⁶	Integrating data mining and machine learning to discover high-strength ductile titanium alloys. <i>Acta Materialia</i> , 2021 , 202, 211-221	8.4	25
3 ⁰⁵	Microstructure, tensile properties and deformation behaviour of a promising bio-applicable new Ti ₃₅ Zr ₁₅ Nb ₂₅ Ta ₂₅ medium entropy alloy (MEA). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 824, 141805	5.3	3
3 ⁰⁴	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

303	Coupling effects of high magnetic field and annealing on the microstructure evolution and mechanical properties of additive manufactured Ti ₆ Al ₄ V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 824, 141815	5.3	4
302	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
301	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
300	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
299	Surface Engineering: Applications for Advanced Manufacturing. <i>Jom</i> , 2020 , 72, 4574-4575	2.1	
298	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
297	Sintering of titanium in argon and vacuum: Pore evolution and mechanical properties. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 90, 105226	4.1	7
296	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. <i>Corrosion Science</i> , 2020 , 169, 108600	6.8	7
295	Grain Refinement of Alloys in Fusion-Based Additive Manufacturing Processes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 4341-4359	2.3	44
294	Strength-ductility improvement of extruded Ti-(N) materials using pure Ti powder with high nitrogen solution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 779, 139136	5.3	16
293	Fatigue Performance of Additively Manufactured Ti-6Al-4V: Surface Condition vs. Internal Defects. <i>Jom</i> , 2020 , 72, 1022-1030	2.1	9
292	Metal injection moulding of surgical tools, biomaterials and medical devices: A review. <i>Powder Technology</i> , 2020 , 364, 189-204	5.2	19
291	Microstructural modification of recycled aluminium alloys by high-intensity ultrasonication: Observations from custom Al _{0.8} Si _{0.2} Mg _{0.2} Fe _{0.5} (0.5,1.0)Mn alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153833	5.7	7
290	A Monte Carlo simulation-based approach to realistic modelling of additively manufactured lattice structures. <i>Additive Manufacturing</i> , 2020 , 32, 101092	6.1	16
289	Additive Manufacturing The 2nd Asia-Pacific International Conference on Additive Manufacturing (APICAM 2019). <i>Jom</i> , 2020 , 72, 997-998	2.1	1
288	Adaptive Concurrent Topology Optimization of Cellular Composites for Additive Manufacturing. <i>Jom</i> , 2020 , 72, 2378-2390	2.1	17
287	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
286	Microstructure and isothermal oxidation behavior of Nb-Ti-Si-based alloy additively manufactured by powder-feeding laser directed energy deposition. <i>Corrosion Science</i> , 2020 , 173, 108757	6.8	5

285	High oxygen-content titanium and titanium alloys made from powder. <i>Journal of Alloys and Compounds</i> , 2020 , 836, 155526	5.7	16
284	Fabrication of the Bc Intermetallic Compound Monoliths by a Novel Powder Metallurgy and Hot-Dipping Approach. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 836-849	2.5	4
283	Grain structure control during metal 3D printing by high-intensity ultrasound. <i>Nature Communications</i> , 2020 , 11, 142	17.4	185
282	In situ hydrothermal transformation of titanium surface into lithium-doped continuous nanowire network towards augmented bioactivity. <i>Applied Surface Science</i> , 2020 , 505, 144604	6.7	10
281	Extraordinary reinforcing effect of carbon nanotubes in aluminium matrix composites assisted by in-situ alumina nanoparticles. <i>Composites Part B: Engineering</i> , 2020 , 183, 107691	10	58
280	Characteristics of oxide films on Ti-(10%Nb)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
279	Tensile properties improvement by homogenized nitrogen solid solution strengthening of commercially pure titanium through powder metallurgy process. <i>Materials Characterization</i> , 2020 , 170, 110700	3.9	7
278	Non-destructive simulation of node defects in additively manufactured lattice structures. <i>Additive Manufacturing</i> , 2020 , 36, 101593	6.1	7
277	Graphene-strengthened Inconel 625 Alloy Fabricated by Selective Laser Melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 798, 140099	5.3	7
276	Cuboid-like nanostructure strengthened equiatomic TiZrNbTa medium entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 798, 140169	5.3	8
275	Microstructure, tensile properties and deformation behaviors of aluminium metal matrix composites co-reinforced by ex-situ carbon nanotubes and in-situ alumina nanoparticles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 795, 139930	5.3	20
274	Ultra-High-Speed Laser Cladding of Stellite 6 Alloy on Mild Steel. <i>Jom</i> , 2020 , 72, 4632-4638	2.1	1
273	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
272	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	2.2	19
271	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
270	The Role of Ultrasonically Induced Acoustic Streaming in Developing Fine Equiaxed Grains During the Solidification of an Al-2 Pct Cu Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 5253-5263	2.3	11
269	New insights into nickel-free superelastic titanium alloys for biomedical applications. <i>Current Opinion in Solid State and Materials Science</i> , 2019 , 23, 100783	12	19
268	In situ doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. <i>Nanoscale Horizons</i> , 2019 , 4, 642-646	10.8	6

267	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
266	Spark Plasma Sintering of Ti-48Al-2Cr-2Nb Alloy Powder and Characterization of an Unexpected Phase. <i>Jom</i> , 2019 , 71, 2556-2563	2.1	1
265	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. <i>Materials Characterization</i> , 2019 , 152, 162-168	3.9	12
264	Osteoblast Responses to Titanium-Coated Subcellular Scaled Microgrooves.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 2405-2413	4.1	6
263	Recent Advances in the Design and Fabrication of Strong and Ductile (Tensile) Titanium Metal Matrix Composites. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801331	3.5	14
262	Effect of ultrasonic melt treatment on intermetallic phase formation in a manganese-modified Al-17Si-2Fe alloy. <i>Journal of Materials Processing Technology</i> , 2019 , 271, 346-356	5.3	14
261	SLM lattice structures: Properties, performance, applications and challenges. <i>Materials and Design</i> , 2019 , 183, 108137	8.1	299
260	Atomic Structural Competition in the Al85.5Ni9.5La5 Alloy During Liquid-to-Solid Transition. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 3441-3445 ²⁻³		1
259	Titanium-Doped Copper-Diamond Composites Fabricated by Hot-Forging of Powder Mixtures or Cold-Pressed Powder Preforms. <i>Jom</i> , 2019 , 71, 4867-4871	2.1	6
258	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
257	Additively manufactured titanium artworks 2019 , 173-184		1
256	Computational modelling of strut defects in SLM manufactured lattice structures. <i>Materials and Design</i> , 2019 , 171, 107671	8.1	95
255	In-situ and ex-situ synchrotron X-ray diffraction studies of microstructural length scale controlled dealloying. <i>Acta Materialia</i> , 2019 , 168, 376-392	8.4	10
254	Effect of Ultrasonication on the Solidification Microstructure in Al and Mg-Alloys. <i>Minerals, Metals and Materials Series</i> , 2019 , 1589-1595	0.3	1
253	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
252	Compositional design of strong and ductile (tensile) Ti-Zr-Nb-Ta medium entropy alloys (MEAs) using the atomic mismatch approach. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 762-772	5.3	30
251	Strong and Ductile Ti-6Al-4V Alloy Produced by Hot Pressing of Ti-6Al-4V Swarf. <i>Jom</i> , 2019 , 71, 1056-1061	4.1	4
250	Selective Electron Beam Manufacturing of Ti-6Al-4V Strips: Effect of Build Orientation, Columnar Grain Orientation, and Hot Isostatic Pressing on Tensile Properties. <i>Jom</i> , 2018 , 70, 638-643	2.1	7

249	A comparative study of the effect of submicron porous and smooth ultrafine-grained Ti-20Mo surfaces on osteoblast responses. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2020-2033	5.4	11
248	The enabling role of dealloying in the creation of specific hierarchical porous metal structures: A review. <i>Corrosion Science</i> , 2018 , 134, 78-98	6.8	68
247	Metal Alloys for Fusion-Based Additive Manufacturing. <i>Advanced Engineering Materials</i> , 2018 , 20, 17009525	5.5	80
246	Metal injection moulding of non-spherical titanium powders: Processing, microstructure and mechanical properties. <i>Journal of Manufacturing Processes</i> , 2018 , 31, 416-423	5	22
245	The effect of ordered and partially ordered surface topography on bone cell responses: a review. <i>Biomaterials Science</i> , 2018 , 6, 250-264	7.4	58
244	The phase evolution in Ti-6Al-4V additively manufactured by laser metal deposition due to cyclic phase transformations. <i>Materials Letters</i> , 2018 , 216, 50-53	3.3	11
243	Microwave processing of titanium and titanium alloys for structural, biomedical and shape memory applications: Current status and challenges. <i>Materials and Manufacturing Processes</i> , 2018 , 33, 35-49	4.1	15
242	Microstructural development of electron beam processed Al-3Ti-1Sc alloy under different electron beam scanning speeds. <i>Materials Characterization</i> , 2018 , 143, 43-49	3.9	11
241	Zirconium Alloys for Orthopaedic and Dental Applications. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800207	3.5	35
240	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
239	Redefining the Phase Stability in Ti-Nb-Zr Alloys for Alloy Design and Microstructural Prediction. <i>Jom</i> , 2018 , 70, 2254-2259	2.1	8
238	Toward Manufacturing Quality Ti-6Al-4V Lattice Struts by Selective Electron Beam Melting (SEBM) for Lattice Design. <i>Jom</i> , 2018 , 70, 1870-1876	2.1	16
237	Atomic Distance Tuning Effect for Nucleation in Liquid Iron. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 4419-4423	2.3	3
236	A novel quaternary equiatomic Ti-Zr-Nb-Ta medium entropy alloy (MEA). <i>Intermetallics</i> , 2018 , 101, 39-43	3.5	49
235	Fabrication and anisotropic wettability of titanium-coated microgrooves. <i>Journal of Applied Physics</i> , 2018 , 123, 095306	2.5	14
234	Powder Metallurgy of Non-Ferrous Metals: Part I. <i>Jom</i> , 2018 , 70, 614-615	2.1	
233	Ductility Improvement Mechanism of Pure Titanium with Excessive Oxygen Solid Solution via Rapid Cooling Process. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2018 , 82, 390-395	0.4	5
232	Ni-free superelastic titanium alloys for medical and dental applications 2018 , 591-611		1

231	Enabling the development of ductile powder metallurgy titanium alloys by a unique scavenger of oxygen and chlorine. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 467-475	5.7	9
230	Titanium background, alloying behavior and advanced fabrication techniques—An overview 2018 , 23-37		2
229	Fundamental Understanding of the Dissolution of Oxide Film on Ti Powder and the Unique Scavenging Feature by LaB6. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 1-6	2.3	10
228	Impacts of Defocusing Amount and Molten Pool Boundaries on Mechanical Properties and Microstructure of Selective Laser Melted AlSi10Mg. <i>Materials</i> , 2018 , 12,	3.5	12
227	In situ preparation of TiB nanowires for high-performance Ti metal matrix nanocomposites. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 2640-2645	5.7	31
226	Solidification of Aluminium Alloys Under Ultrasonication: An Overview. <i>Transactions of the Indian Institute of Metals</i> , 2018 , 71, 2681-2686	1.2	5
225	Porous Titanium Scaffolds Fabricated by Metal Injection Moulding for Biomedical Applications. <i>Materials</i> , 2018 , 11,	3.5	9
224	Mechanical properties, in vitro corrosion resistance and biocompatibility of metal injection molded Ti-12Mo alloy for dental applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 88, 534-547	4.1	38
223	Selective electron beam manufactured Ti-6Al-4V lattice structures for orthopedic implant applications: Current status and outstanding challenges. <i>Current Opinion in Solid State and Materials Science</i> , 2018 , 22, 75-99	12	93
222	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
221	Microstructure, Mechanical Properties, and Flatness of SEBM Ti-6Al-4V Sheet in As-Built and Hot Isostatically Pressed Conditions. <i>Jom</i> , 2017 , 69, 466-471	2.1	24
220	Influence of the laser pre-quenched substrate on an electroplated chromium coating/steel substrate. <i>Applied Surface Science</i> , 2017 , 405, 273-279	6.7	9
219	Characterization and compositional crystallography of the massive phase grains in an additively-manufactured Ti-6Al-4V alloy. <i>Materials Characterization</i> , 2017 , 127, 146-152	3.9	17
218	Effect of Dy addition on microstructure and mechanical properties of Mg-4Y-3Nd-0.4Zr alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 797-803	3.3	10
217	Initial crystallisation or nucleation in a liquid aluminium alloy containing spinel seeds. <i>Materials Letters</i> , 2017 , 196, 358-360	3.3	5
216	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
215	Additive Manufacturing of Titanium Alloys. <i>Jom</i> , 2017 , 69, 2677-2678	2.1	8
214	The Effect of Ultrasonic Melt Treatment on Macro-Segregation and Peritectic Transformation in an Al-19Si-4Fe Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 5579-5590	2.3	19

213	New Development in Selective Laser Melting of Ti ₆ Al ₄ V: A Wider Processing Window for the Achievement of Fully Lamellar β Microstructures. <i>Jom</i> , 2017 , 69, 2679-2683	2.1	23
212	Boron nitride nanotube reinforced titanium metal matrix composites with excellent high-temperature performance. <i>Journal of Materials Research</i> , 2017 , 32, 3744-3752	2.5	17
211	Reducing electric current and energy consumption of spark plasma sintering via punch configuration design. <i>Ceramics International</i> , 2017 , 43, 17225-17228	5.1	4
210	Role of ultrasonic treatment, inoculation and solute in the grain refinement of commercial purity aluminium. <i>Scientific Reports</i> , 2017 , 7, 9729	4.9	37
209	Selective laser melting of H13: microstructure and residual stress. <i>Journal of Materials Science</i> , 2017 , 52, 12476-12485	4.3	91
208	Layer Additive Production or Manufacturing of Thick Sections of Ti-6Al-4V by Selective Electron Beam Melting (SEBM). <i>Jom</i> , 2017 , 69, 1836-1843	2.1	15
207	High tensile-strength and ductile titanium matrix composites strengthened by TiB nanowires. <i>Scripta Materialia</i> , 2017 , 141, 133-137	5.6	83
206	Grain refinement of binary Al-Si, Al-Cu and Al-Ni alloys by ultrasonication. <i>Journal of Materials Processing Technology</i> , 2017 , 249, 367-378	5.3	40
205	On the microstructural refinement in commercial purity Al and Al-10 wt% Cu alloy under ultrasonication during solidification. <i>Materials and Design</i> , 2017 , 132, 266-274	8.1	41
204	Enhanced Homogenization of Vanadium in Spark Plasma Sintering of Ti-10V-2Fe-3Al Alloy from Titanium and V-Fe-Al Master Alloy Powder Blends. <i>Jom</i> , 2017 , 69, 663-668	2.1	3
203	Sintering and Related Phenomena. <i>Jom</i> , 2017 , 69, 628-629	2.1	0
202	Metal injection moulding of titanium and titanium alloys: Challenges and recent development. <i>Powder Technology</i> , 2017 , 319, 289-301	5.2	81
201	High-tensile-strength and ductile novel Ti-Fe-N-B alloys reinforced with TiB nanowires. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 708, 285-290	5.3	8
200	Recent advances in grain refinement of light metals and alloys. <i>Current Opinion in Solid State and Materials Science</i> , 2016 , 20, 13-24	12	160
199	A Detailed Experimental Assessment of Microwave Heating of Titanium Hydride Powder. <i>Key Engineering Materials</i> , 2016 , 704, 388-399	0.4	4
198	Variation in pore distribution along sample length in sintered 7xxx aluminum alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2016 , 26, 2019-2028	3.3	2
197	Grain Refinement of an Al-2 wt%Cu Alloy by Al ₃ Ti ₁ B Master Alloy and Ultrasonic Treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 117, 012050	0.4	13
196	Electrochemical nucleic acid biosensors: from fabrication to application. <i>Analytical Methods</i> , 2016 , 8, 5169-5189	3.2	12

195	Fabrication of High Strength and Ductile Stainless Steel Fiber Felts by Sintering. <i>Jom</i> , 2016 , 68, 890-898	2.1	6
194	The crystallographic features of β phase in a powder metallurgy nickel-doped Ti ₅₅ Al ₁₈ Nb _{0.2} Co _{0.2} B _{0.25} Ni alloy. <i>Intermetallics</i> , 2016 , 71, 65-72	3.5	3
193	Identifying and understanding the effect of milling energy on the synthesis of carbon nanotubes reinforced titanium metal matrix composites. <i>Carbon</i> , 2016 , 99, 384-397	10.4	58
192	The Influence of As-Built Surface Conditions on Mechanical Properties of Ti-6Al-4V Additively Manufactured by Selective Electron Beam Melting. <i>Jom</i> , 2016 , 68, 791-798	2.1	73
191	A Honeycomb-Structured Ti-6Al-4V Oil-Gas Separation Rotor Additively Manufactured by Selective Electron Beam Melting for Aero-engine Applications. <i>Jom</i> , 2016 , 68, 799-805	2.1	14
190	Selective laser melting (SLM) of AlSi12Mg lattice structures. <i>Materials and Design</i> , 2016 , 98, 344-357	8.1	234
189	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
188	Massive transformation in Ti ₆ Al ₄ V additively manufactured by selective electron beam melting. <i>Acta Materialia</i> , 2016 , 104, 303-311	8.4	115
187	Comparison of electromagnetic and piezoelectric vibration energy harvesters with different interface circuits. <i>Mechanical Systems and Signal Processing</i> , 2016 , 72-73, 906-924	7.8	24
186	Optical Aptasensors for Adenosine Triphosphate. <i>Theranostics</i> , 2016 , 6, 1683-702	12.1	34
185	Enzyme Mimics: Advances and Applications. <i>Chemistry - A European Journal</i> , 2016 , 22, 8404-30	4.8	201
184	Additive manufacturing and postprocessing of Ti-6Al-4V for superior mechanical properties. <i>MRS Bulletin</i> , 2016 , 41, 775-784	3.2	148
183	Advances in Sintering. <i>Jom</i> , 2016 , 68, 876-877	2.1	1
182	Synthetic genetic polymers: advances and applications. <i>Polymer Chemistry</i> , 2016 , 7, 5199-5216	4.9	16
181	Porous titanium structures and applications 2015 , 533-554		8
180	Spark plasma sintering and hot pressing of titanium and titanium alloys 2015 , 219-235		11
179	Manipulation and Characterization of a Novel Titanium Powder Precursor for Additive Manufacturing Applications. <i>Jom</i> , 2015 , 67, 564-572	2.1	44
178	Effect of Powder Reuse Times on Additive Manufacturing of Ti-6Al-4V by Selective Electron Beam Melting. <i>Jom</i> , 2015 , 67, 555-563	2.1	246

177	Metal Powder for Additive Manufacturing. <i>Jom</i> , 2015 , 67, 536-537	2.1	32
176	A yttrium-containing high-temperature titanium alloy additively manufactured by selective electron beam melting. <i>Journal of Central South University</i> , 2015 , 22, 2857-2863	2.1	6
175	Creation of bimodal porous copper materials by an annealing-electrochemical dealloying approach. <i>Electrochimica Acta</i> , 2015 , 164, 288-296	6.7	42
174	Microwave sintering of titanium and titanium alloys 2015 , 237-251		3
173	A dealloying approach to synthesizing micro-sized porous tin (Sn) from immiscible alloy systems for potential lithium-ion battery anode applications. <i>Journal of Porous Materials</i> , 2015 , 22, 713-719	2.4	11
172	Pressureless sintering of titanium and titanium alloys: sintering densification and solute homogenization 2015 , 201-218		9
171	Scavenging of oxygen and chlorine from powder metallurgy (PM) titanium and titanium alloys 2015 , 253-276		10
170	Additive manufacturing of a high niobium-containing titanium aluminide alloy by selective electron beam melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 103-107	5.3	92
169	A perspective on the future of titanium powder metallurgy 2015 , 601-608		7
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