

Konda Gokuldoss Prashanth

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190
ext. papers

8,521
ext. citations

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#	Paper	IF	Citations
177	Microstructure and mechanical properties of Al ₁₂ Si produced by selective laser melting: Effect of heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 590, 153-160	5.3	481
176	Additive Manufacturing Processes: Selective Laser Melting, Electron Beam Melting and Binder Jetting-Selection Guidelines. <i>Materials</i> , 2017 , 10,	3.5	301
175	Mechanical behavior of selective laser melted 316L stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 696, 113-121	5.3	300
174	Simultaneous enhancements of strength and toughness in an Al-12Si alloy synthesized using selective laser melting. <i>Acta Materialia</i> , 2016 , 115, 285-294	8.4	287
173	Formation of metastable cellular microstructures in selective laser melted alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 27-34	5.7	235
172	Defining the tensile properties of Al-12Si parts produced by selective laser melting. <i>Acta Materialia</i> , 2017 , 126, 25-35	8.4	208
171	Mechanical properties of Al-based metal matrix composites reinforced with Zr-based glassy particles produced by powder metallurgy. <i>Acta Materialia</i> , 2009 , 57, 2029-2039	8.4	194
170	Mechanical behavior of porous commercially pure Ti and Ti ₆ Al ₄ V composite materials manufactured by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 625, 350-356	5.3	185
169	Is the energy density a reliable parameter for materials synthesis by selective laser melting?. <i>Materials Research Letters</i> , 2017 , 5, 386-390	7.4	182
168	Fabrication of Fe-based bulk metallic glass by selective laser melting: A parameter study. <i>Materials and Design</i> , 2015 , 86, 703-708	8.1	179
167	Comparison of wear properties of commercially pure titanium prepared by selective laser melting and casting processes. <i>Materials Letters</i> , 2015 , 142, 38-41	3.3	177
166	Effect of Powder Particle Shape on the Properties of In Situ Ti ₆ Al ₄ V Composite Materials Produced by Selective Laser Melting. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 1001-1005	9.1	156
165	Additive manufacturing of Cu ₁₀ Sn bronze. <i>Materials Letters</i> , 2015 , 156, 202-204	3.3	150
164	Tensile, fracture, and fatigue crack growth properties of a 3D printed maraging steel through selective laser melting. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 355-364	5.7	131
163	Evaluation of mechanical and wear properties of Ti _x Nb ₇ Fe alloys designed for biomedical applications. <i>Materials and Design</i> , 2016 , 111, 592-599	8.1	129
162	Influence of Annealing on Mechanical Properties of Al-20Si Processed by Selective Laser Melting. <i>Metals</i> , 2014 , 4, 28-36	2.3	117
161	Tribological and corrosion properties of Al ₁₂ Si produced by selective laser melting. <i>Journal of Materials Research</i> , 2014 , 29, 2044-2054	2.5	108

160	Selective laser melting of Al-Zn-Mg-Cu: Heat treatment, microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 287-290	5.7	102
159	Production of high strength Al85Nd8Ni5Co2 alloy by selective laser melting. <i>Additive Manufacturing</i> , 2015 , 6, 1-5	6.1	101
158	Processing of Al ₂ Si ₃ NM composites by selective laser melting and evaluation of compressive and wear properties. <i>Journal of Materials Research</i> , 2016 , 31, 55-65	2.5	84
157	Friction welding of Al ₂ Si parts produced by selective laser melting. <i>Materials & Design</i> , 2014 , 57, 632-637		80
156	Microstructure and mechanical properties of a heat-treatable Al-3.5Cu-1.5Mg-1Si alloy produced by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 711, 562-570	5.3	73
155	Hybrid nanostructured aluminum alloy with super-high strength. <i>NPG Asia Materials</i> , 2015 , 7, e229-e229	10.3	70
154	Production of Porous β -Type Ti-40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. <i>Materials</i> , 2013 , 6, 5700-5712	3.5	63
153	Microstructure and mechanical properties of Al-Cu alloys fabricated by selective laser melting of powder mixtures. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 2263-2266	5.7	63
152	Fabrication and mechanical properties of Al-based metal matrix composites reinforced with Mg65Cu20Zn5Y10 metallic glass particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 600, 53-58	5.3	62
151	Selective Laser Melting of Ti-45Nb Alloy. <i>Metals</i> , 2015 , 5, 686-694	2.3	60
150	Influence of Powder Characteristics on Processability of AlSi12 Alloy Fabricated by Selective Laser Melting. <i>Materials</i> , 2018 , 11,	3.5	59
149	Effect of TiB ₂ particles on microstructure and crystallographic texture of Al-12Si fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019 , 786, 551-556	5.7	56
148	Microstructure and phase formation in Al ₂ O ₃ Si ₃ Fe ₃ Cu ₃ Mg synthesized by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2016 , 657, 430-435	5.7	55
147	Modeling the strengthening effect of Al ₂ CuBe quasicrystalline particles in Al-based metal matrix composites. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S130-S133	5.7	51
146	A review of particulate-reinforced aluminum matrix composites fabricated by selective laser melting. <i>Transactions of Nonferrous Metals Society of China</i> , 2020 , 30, 2001-2034	3.3	48
145	Tensile properties of Al matrix composites reinforced with in situ devitrified Al84Gd6Ni7Co3 glassy particles. <i>Journal of Alloys and Compounds</i> , 2014 , 586, S419-S422	5.7	47
144	Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting. <i>Journal of Manufacturing Processes</i> , 2019 , 45, 255-261	5	46
143	Al-based metal matrix composites reinforced with Fe _{49.9} Co _{35.1} Nb _{7.7} B _{4.5} Si _{2.8} glassy powder: Mechanical behavior under tensile loading. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S382-S385	5.7	44

142	Premature failure of an additively manufactured material. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	44
141	The thermal expansion behaviour of SiCp/Al ₂ O ₃ Si composites solidified under high pressures. <i>Materials & Design</i> , 2015 , 65, 387-394		43
140	Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB ₂ fabricated by selective laser melting and hot pressing. <i>Ceramics International</i> , 2018 , 44, 17635-17642	5.1	43
139	Microstructure evolution and mechanical properties of carbon nanotubes reinforced Al matrix composites. <i>Materials Characterization</i> , 2017 , 133, 122-132	3.9	40
138	Crystallization kinetics and consolidation of mechanically alloyed Al ₇₀ Y ₁₆ Ni ₁₀ Co ₄ glassy powders. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 171-177	5.7	40
137	Microstructure and thermal expansion behavior of Al-50Si synthesized by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2017 , 699, 548-553	5.7	39
136	Evolution of microstructure and mechanical properties of as-cast Al-50Si alloy due to heat treatment and P modifier content. <i>Materials & Design</i> , 2015 , 74, 150-156		37
135	Anisotropy in local microstructure Does it affect the tensile properties of the SLM samples?. <i>Manufacturing Letters</i> , 2018 , 15, 33-37	4.5	37
134	Mechanical behavior of Al-based matrix composites reinforced with Mg ₅₈ Cu _{28.5} Gd ₁₁ Ag _{2.5} metallic glasses. <i>Advanced Powder Technology</i> , 2014 , 25, 635-639	4.6	37
133	Crystallization behavior and consolidation of gas-atomized Al ₈₄ Gd ₆ Ni ₇ Co ₃ glassy powder. <i>Journal of Alloys and Compounds</i> , 2010 , 491, 137-142	5.7	36
132	Tensile properties of Al ₂ Si matrix composites reinforced with Ti/Al-based particles. <i>Journal of Alloys and Compounds</i> , 2015 , 630, 256-259	5.7	34
131	A novel high-strength Al-based nanocomposite reinforced with Ti-based metallic glass nanoparticles produced by powder metallurgy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 734, 34-41	5.3	33
130	Selective laser manufacturing of Ti-based alloys and composites: impact of process parameters, application trends, and future prospects. <i>Materials Today Advances</i> , 2020 , 8, 100097	7.4	33
129	Characterization of 316L Steel Cellular Dodecahedron Structures Produced by Selective Laser Melting. <i>Technologies</i> , 2016 , 4, 34	2.4	32
128	Influence of severe straining and strain rate on the evolution of dislocation structures during micro-/nanoindentation in high entropy lamellar eutectics. <i>International Journal of Plasticity</i> , 2018 , 109, 121-136	7.6	31
127	Dissimilar welding of Al _{0.1} CoCrFeNi high-entropy alloy and AISI304 stainless steel. <i>Journal of Materials Research</i> , 2019 , 34, 2683-2694	2.5	30
126	Friction welding of selective laser melted Ti6Al4V parts. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 704, 66-71	5.3	29
125	Phase formation, microstructure and deformation behavior of heavily alloyed TiNb- and TiV-based titanium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 733, 80-86	5.3	28

124	High-strength ultrafine grain Mg ₇₀ Al alloy synthesized by consolidation of mechanically alloyed powders. <i>Journal of Alloys and Compounds</i> , 2014 , 610, 456-461	5.7	28
123	Influence of Mechanical Activation on Decomposition of Titanium Hydride. <i>Materials and Manufacturing Processes</i> , 2010 , 25, 974-977	4.1	28
122	Effect of high pressure solidification on tensile properties and strengthening mechanisms of Al-20Si. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 88-93	5.7	28
121	Microstructure and mechanical properties of MgAl-based alloy modified with cerium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 625, 46-49	5.3	27
120	Additive Manufacturing: Reproducibility of Metallic Parts. <i>Technologies</i> , 2017 , 5, 8	2.4	27
119	Fabrication and characterization of bulk glassy Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ alloy with high thermal stability and excellent soft magnetic properties. <i>Acta Materialia</i> , 2013 , 61, 6609-6621	8.4	25
118	Selective Laser Melting of Aluminum and Its Alloys. <i>Materials</i> , 2020 , 13,	3.5	24
117	Selective laser melting of Cu ₄₀ Fe ₂₂ Ta ₈ B ₃₀ : A comprehensive study on the microstructure, mechanical properties, and deformation behavior. <i>International Journal of Plasticity</i> , 2021 , 138, 102926	7.6	24
116	Tensile Properties of Al-12Si Fabricated via Selective Laser Melting (SLM) at Different Temperatures. <i>Technologies</i> , 2016 , 4, 38	2.4	24
115	Selective laser melting of Ti6Al4V: Effect of laser re-melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 805, 140558	5.3	24
114	Effect of Si content on the microstructure and properties of AlSi alloys fabricated using hot extrusion. <i>Journal of Materials Research</i> , 2017 , 32, 2210-2217	2.5	23
113	Grain refinement in laser manufactured Al-based composites with TiB ₂ ceramic. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 2611-2622	5.5	23
112	Enhancing the interface bonding in carbon nanotubes reinforced Al matrix composites by the in situ formation of TiAl ₃ and TiC. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 98-105	5.7	23
111	Effect of Al ₂ O ₃ Nanoparticles as Reinforcement on the Tensile Behavior of Al-12Si Composites. <i>Metals</i> , 2017 , 7, 359	2.3	23
110	Kinetic analysis of the non-isothermal crystallization process, magnetic and mechanical properties of FeCoBSiNb and FeCoBSiNbCu bulk metallic glasses. <i>Journal of Applied Physics</i> , 2016 , 119, 073908	2.5	23
109	Plastic deformation mechanisms in severely strained eutectic high entropy composites explained via strain rate sensitivity and activation volume. <i>Composites Part B: Engineering</i> , 2018 , 150, 7-13	10	23
108	Tribological properties of selective laser melted Al ₁₂ Si alloy. <i>Tribology International</i> , 2019 , 137, 94-101	4.9	22
107	Microstructure and strength of nano-/ultrafine-grained carbon nanotube-reinforced titanium composites processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 722, 122-128	5.3	22

106	Effect of Particle Size on Microstructure and Mechanical Properties of Al-Based Composite Reinforced with 10 Vol.% Mechanically Alloyed Mg-7.4%Al Particles. <i>Technologies</i> , 2016 , 4, 37	2.4	21
105	Bioceramic scaffolds by additive manufacturing for controlled delivery of the antibiotic vancomycin. <i>Proceedings of the Estonian Academy of Sciences</i> , 2019 , 68, 185	1.6	20
104	Linear patterning of high entropy alloy by additive manufacturing. <i>Manufacturing Letters</i> , 2020 , 24, 9-13	4.5	20
103	Effect of ball milling on structure and thermal stability of Al ₈₄ Gd ₆ Ni ₇ Co ₃ glassy powders. <i>Intermetallics</i> , 2014 , 46, 97-102	3.5	20
102	Effect of Milling Time and the Consolidation Process on the Properties of Al Matrix Composites Reinforced with Fe-Based Glassy Particles. <i>Metals</i> , 2015 , 5, 669-685	2.3	20
101	Crystallization kinetics of Zr ₆₅ Ag ₅ Cu _{12.5} Ni ₁₀ Al _{7.5} glassy powders produced by ball milling of pre-alloyed ingots. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 513-514, 279-285	5.3	20
100	Fabrication and Response of Al ₇₀ Y ₁₆ Ni ₁₀ Co ₄ Glass Reinforced Metal Matrix Composites. <i>Materials and Manufacturing Processes</i> , 2011 , 26, 1242-1247	4.1	20
99	Novel welding of Al _{0.5} CoCrFeNi high-entropy alloy: Corrosion behavior. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 153163	5.7	20
98	Selective laser melting of 316L stainless steel: Influence of TiB ₂ addition on microstructure and mechanical properties. <i>Materials Today Communications</i> , 2019 , 21, 100615	2.5	19
97	Length scale-dependent structural relaxation in Zr _{57.5} Ti _{7.5} Nb ₅ Cu _{12.5} Ni ₁₀ Al _{7.5} metallic glass. <i>Journal of Alloys and Compounds</i> , 2015 , 639, 465-469	5.7	19
96	Frictional Wear and Corrosion Behavior of AlCoCrFeNi High-Entropy Alloy Coatings Synthesized by Atmospheric Plasma Spraying. <i>Entropy</i> , 2020 , 22,	2.8	19
95	Cooperative deformation behavior between the shear band and boundary sliding of an Al-based nanostructure-dendrite composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 735, 81-88	5.3	19
94	Microstructure and Mechanical Properties of Al-(12-20)Si Bi-Material Fabricated by Selective Laser Melting. <i>Materials</i> , 2019 , 12,	3.5	19
93	Mechanical Behavior of Ti ₆ Al ₄ V Scaffolds Filled with CaSiO ₃ for Implant Applications. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3844	2.6	19
92	Selective laser melting of high-strength, low-modulus Ti ₃₅ Nb ₇ Zr ₅ Ta alloy. <i>Materialia</i> , 2020 , 14, 100941	3.2	19
91	Mechanism of formation of fibrous eutectic Si and thermal conductivity of SiC p /Al-20Si composites solidified under high pressure. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 329-336	5.7	18
90	Mechanical and Tribological Properties of Al ₂ O ₃ -TiC Composite Fabricated by Spark Plasma Sintering Process with Metallic (Ni, Nb) Binders. <i>Metals</i> , 2018 , 8, 50	2.3	17
89	Production, Kinetic Study and Properties of Fe-Based Glass and Its Composites. <i>Materials and Manufacturing Processes</i> , 2010 , 25, 592-597	4.1	17

88	Superior Wear Resistance in EBM-Processed TC4 Alloy Compared with SLM and Forged Samples. <i>Materials</i> , 2019 , 12,	3.5	16
87	Creep and high temperature fatigue performance of as build selective laser melted Ti-based 6Al-4V titanium alloy. <i>Engineering Failure Analysis</i> , 2020 , 111, 104477	3.2	16
86	High strength nanostructured Al-based alloys through optimized processing of rapidly quenched amorphous precursors. <i>Scientific Reports</i> , 2018 , 8, 1090	4.9	16
85	Synthesis and Characterization of Nanocrystalline Mg-7.4%Al Powders Produced by Mechanical Alloying. <i>Metals</i> , 2013 , 3, 58-68	2.3	16
84	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. <i>Technologies</i> , 2016 , 4, 33	2.4	16
83	Aluminum matrix composites reinforced with metallic glass particles with core-shell structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138630	5.3	15
82	In situ fabrication of TiC-NiCr cermets by selective laser melting. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 87, 105171	4.1	15
81	Microstructure and mechanical property of bimodal-size metallic glass particle-reinforced Al alloy matrix composites. <i>Journal of Alloys and Compounds</i> , 2020 , 814, 152317	5.7	15
80	Effect of boron addition on thermal and mechanical properties of Co-Cr-Mo-C(B) glass-forming alloys. <i>Intermetallics</i> , 2018 , 99, 1-7	3.5	15
79	Perspectives of metal-diamond composites additive manufacturing using SLM-SPS and other techniques for increased wear-impact resistance. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 88, 105192	4.1	14
78	Comparison of additively manufacturing samples fabricated from pre-alloyed and mechanically mixed powders. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154603	5.7	13
77	Cu-Ni-Sn alloy fabricated by melt spinning and selective laser melting: a comparative study on the microstructure and formation kinetics. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 13097-13105	5.5	13
76	Microstructure and magnetic properties of soft magnetic composites based on silicon resin coated Co ₄₀ Fe ₂₂ Ta ₈ B ₃₀ glassy powders. <i>Intermetallics</i> , 2013 , 43, 1-7	3.5	12
75	Reciprocating sliding wear behavior of high-strength nanocrystalline Al ₈₄ Ni ₇ Gd ₆ Co ₃ alloys. <i>Wear</i> , 2017 , 382-383, 78-84	3.5	11
74	High pressure torsion induced lowering of Young's modulus in high strength TNZT alloy for bio-implant applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 108, 103839	4.1	11
73	Solidification of Al-xCu alloy under high pressures. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 2983-2991	5.5	11
72	Role of impinging powder particles on melt pool hydrodynamics, thermal behaviour and microstructure in laser-assisted DED process: A particle-scale DEM [CFD] [CA] approach. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 158, 119989	4.9	11
71	Influence of milling time on microstructure and magnetic properties of Fe ₈₀ P ₁₁ C ₉ alloy produced by mechanical alloying. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 395, 354-360	2.8	10

70	Pressure-assisted sintering of Al _{0.1} CoNi _{0.1} amorphous alloy powders. <i>Materialia</i> , 2018 , 2, 157-166	3.2	10
69	Effect of lattice surface treatment on performance of hardmetal - titanium interpenetrating phase composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 86, 105087	4.1	10
68	Influence of Nb on the Microstructure and Fracture Toughness of (ZrFe)Nb Nano-Eutectic Composites. <i>Materials</i> , 2018 , 11,	3.5	10
67	Designing a novel functional-structural NiTi/hydroxyapatite composite with enhanced mechanical properties and high bioactivity. <i>Intermetallics</i> , 2017 , 84, 35-41	3.5	9
66	Friction welding of electron beam melted Ti-6Al-4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 138045	5.3	9
65	Interfacial structure and wear properties of selective laser melted Ti/(TiC+TiN) composites with high content of reinforcements. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159436	5.7	9
64	Rapid fabrication of function-structure-integrated NiTi alloys: Towards a combination of excellent superelasticity and favorable bioactivity. <i>Intermetallics</i> , 2017 , 82, 1-13	3.5	8
63	Tungsten Matrix Composite Reinforced with CoCrFeMnNi High-Entropy Alloy: Impact of Processing Routes on Microstructure and Mechanical Properties. <i>Metals</i> , 2019 , 9, 992	2.3	8
62	Structural and Mechanical Characterization of ZrTiCuNiAl Bulk Metallic Glass. <i>Materials</i> , 2011 , 5, 1-11	3.5	8
61	Al-based metal matrix composites reinforced with nanocrystalline Al-Ti-Ni particles. <i>Journal of Physics: Conference Series</i> , 2010 , 240, 012154	0.3	8
60	Effect of selective laser melting process parameters on microstructural and mechanical properties of Ti ₄₀ Ni ₄₀ Cr cermet. <i>Ceramics International</i> , 2020 , 46, 28749-28757	5.1	8
59	Electron-beam welding of high-entropy alloy and stainless steel: microstructure and mechanical properties. <i>Materials and Manufacturing Processes</i> , 2020 , 35, 1885-1894	4.1	8
58	Powder metallurgy of Al _{0.1} CoCrFeNi high-entropy alloy. <i>Journal of Materials Research</i> , 2020 , 35, 2835-2847	2.5	8
57	Design of next-generation alloys for additive manufacturing. <i>Material Design and Processing Communications</i> , 2019 , 1, e50	0.9	7
56	Texture dependent strain hardening in additively manufactured stainless steel 316L. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 820, 141483	5.3	7
55	Compression behavior of inter-particle regions in high-strength Al ₈₄ Ni ₇ Gd ₆ Co ₃ alloy. <i>Materials Letters</i> , 2016 , 185, 25-28	3.3	7
54	Corrosion properties of high-strength nanocrystalline Al ₈₄ Ni ₇ Gd ₆ Co ₃ alloy produced by hot pressing of metallic glass. <i>Journal of Alloys and Compounds</i> , 2017 , 707, 63-67	5.7	6
53	Work hardening in selective laser melted Al-12Si alloy. <i>Material Design and Processing Communications</i> , 2019 , 1, e46	0.9	6

52	Designing a multifunctional Ti-2Cu-4Ca porous biomaterial with favorable mechanical properties and high bioactivity. <i>Journal of Alloys and Compounds</i> , 2017 , 727, 338-345	5.7	6
51	A Review on Development of Bio-Inspired Implants Using 3D Printing. <i>Biomimetics</i> , 2021 , 6,	3.7	6
50	Spark plasma sintering of Ti6Al4V metal matrix composites: Microstructure, mechanical and corrosion properties. <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158875	5.7	6
49	Powder metallurgy of Al-based composites reinforced with Fe-based glassy particles: Effect of microstructural modification. <i>Particulate Science and Technology</i> , 2019 , 37, 286-291	2	6
48	Additive manufacturing of a martensitic Co-Cr-Mo alloy: Towards circumventing the strength-ductility trade-off. <i>Additive Manufacturing</i> , 2021 , 37, 101725	6.1	6
47	Thermal expansion behavior of Al-Si alloys fabricated using selective laser melting. <i>Progress in Additive Manufacturing</i> , 2020 , 5, 247-257	5	5
46	Comment on the paper "Thermal stability of the Al70Ni10Ti10Zr5Ta5 amorphous alloy powder fabricated by mechanical alloying" by Xiu Wei, Xinfu Wang, Fusheng Han, Haowen Xie, Cui Wen, J. Alloys Compd. 496 (2010) 313-316. <i>Journal of Alloys and Compounds</i> , 2010 , 507, L32-L34	5.7	5
45	Microstructural evolution and mechanical properties of selective laser melted Ti-6Al-4V induced by annealing treatment. <i>Journal of Central South University</i> , 2021 , 28, 1068-1077	2.1	5
44	Additive Manufacturing of Aluminum-Based Metal Matrix Composites: A Review. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100053	3.5	5
43	The Impact Resistance of Highly Densified Metal Alloys Manufactured from Gas-Atomized Pre-Alloyed Powders. <i>Coatings</i> , 2021 , 11, 216	2.9	5
42	Strengthening Effects in Nano-/Ultrafine-Grained Carbon Nanotube Reinforced-Titanium Composites Investigated by Finite Element Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 6469-6478	2.3	5
41	Influence of substructures on the selective laser melted Ti-6Al-4V alloy as a function of laser re-melting. <i>Journal of Manufacturing Processes</i> , 2021 , 68, 1387-1394	5	5
40	Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in Co-Cr-Fe-Ni-Nb high-entropy composites. <i>Journal of Materials Research</i> , 2019 , 34, 2672-2682	2.5	4
39	Selective laser melting of nanostructured Al-Y-Ni-Co alloy. <i>Manufacturing Letters</i> , 2020 , 25, 21-25	4.5	4
38	Phase transitions in Al ₃ Ca ₈ and Al ₁₄ Ca ₁₃ intermetallic compounds induced by milling and annealing. <i>Materials Letters</i> , 2012 , 79, 145-147	3.3	4
37	Role of laser remelting and heat treatment in mechanical and tribological properties of selective laser melted Ti6Al4V alloy. <i>Journal of Alloys and Compounds</i> , 2022 , 897, 163207	5.7	4
36	Biomorphic porous Ti6Al4V gyroid scaffolds for bone implant applications fabricated by selective laser melting. <i>Progress in Additive Manufacturing</i> , 2021 , 6, 455-469	5	4
35	Co-Cr-Mo-C-B metallic glasses with wide supercooled liquid region obtained by systematic adjustment of the metalloids ratio. <i>Journal of Non-Crystalline Solids</i> , 2019 , 505, 310-319	3.9	4

34	Mechanisms controlling fracture toughness of additively manufactured stainless steel 316L. <i>International Journal of Fracture</i> ,1	2.3	4
33	Competition between densification and microstructure of functional materials by Selective Laser Melting. <i>Material Design and Processing Communications</i> , 2020 , 2, e146	0.9	3
32	Production of customized hybrid porous structures by powder metallurgy of Ni59Zr20Ti16Si2Sn3 glassy powders. <i>Journal of Materials Research</i> , 2013 , 28, 2490-2498	2.5	3
31	Ti6Al7Nb-based TiB-reinforced composites by selective laser melting. <i>Journal of Materials Research</i> ,1	2.5	3
30	Microstructure and mechanical properties of NiTi-SS bimetallic structures built using Wire Arc Additive Manufacturing. <i>Materials Letters</i> , 2021 , 303, 130499	3.3	3
29	Al ₂ O ₃ -TiC Composite Prepared by Spark Plasma Sintering Process: Evaluation of Mechanical and Tribological Properties. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 997-1004	1.6	2
28	Microstructure evolution and hot deformation behavior of spray-deposited TiAl alloys. <i>Journal of Materials Research</i> , 2018 , 33, 2844-2852	2.5	2
27	Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 939-945	5.7	2
26	Mechanical behavior of the cold-rolled Zr57Ti8Nb2.5Cu13.9Ni11.1Al7.5 metallic glass-quasicrystalline composite. <i>International Journal of Materials Research</i> , 2012 , 103, 1113-1116	0.5	2
25	Laser additive manufacturing of nano-TiC particles reinforced CoCrFeMnNi high-entropy alloy matrix composites with high strength and ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 833, 142512	5.3	2
24	Maximizing the degree of rejuvenation in metallic glasses. <i>Scripta Materialia</i> , 2022 , 212, 114575	5.6	2
23	Vacuum Hot Pressing of Oxide Dispersion Strengthened Ferritic Stainless Steels: Effect of Al Addition on the Microstructure and Properties. <i>Journal of Manufacturing and Materials Processing</i> , 2020 , 4, 93	2.2	2
22	Effect of Substrate Plate Heating on the Microstructure and Properties of Selective Laser Melted Al-20Si-5Fe-3Cu-1Mg Alloy. <i>Materials</i> , 2021 , 14,	3.5	2
21	Effect of nanoparticles on morphology and size of primary silicon and property of selective laser melted Al-high Si content alloys. <i>Vacuum</i> , 2021 , 191, 110405	3.7	2
20	Dissimilar welding of high-entropy alloy to Inconel 718 superalloy for structural applications. <i>Journal of Materials Research</i> ,1	2.5	1
19	Investigating the Structure, Microstructure, and Texture in Selective Laser-Melted Sterling Silver 925. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 5329 ^{2,3}	2.3	1
18	CoB-TiB ₂ crystalline powders: Synthesis, microstructural analysis and their utilization as reinforcement agent. <i>Advanced Powder Technology</i> , 2020 , 31, 2964-2972	4.6	1
17	Annealing of Al-Zn-Mg-Cu Alloy at High Pressures: Evolution of Microstructure and the Corrosion Behavior. <i>Materials</i> , 2021 , 14,	3.5	1

16	Selective Laser Melting of Al-7Si-0.5 Mg-0.5Cu: Effect of Heat Treatment on Microstructure Evolution, Mechanical Properties and Wear Resistance. <i>Acta Metallurgica Sinica (English Letters)</i> ,1	2.5	1
15	Removing the oxide layer in a nanostructured aluminum alloy by local shear deformation between nanoscale phases. <i>Powder Technology</i> , 2019 , 343, 733-737	5.2	1
14	Microstructure and properties of in-situ high entropy alloy/tungsten carbide composites by mechanical alloying.. <i>Material Design and Processing Communications</i> , 2020 ,	0.9	1
13	Laser Hybrid Wire Arc Additive Manufacturing for Fabricating Thin Sections 1		1
12	Effect of the Laser Processing Parameters on the Selective Laser Melting of TiCBe-Based Cermets. <i>Journal of Manufacturing and Materials Processing</i> , 2022 , 6, 35	2.2	1
11	Mechanical and Tribological Behavior of Gravity and Squeeze Cast Novel Al-Si Alloy. <i>Metals</i> , 2022 , 12, 194	2.3	0
10	Spark plasma sintering of molybdenum silicides synthesized from oxide precursors. <i>Ceramics International</i> , 2021 , 47, 13827-13836	5.1	0
9	In Vitro Corrosion Behavior of Selective Laser Melted Ti-35Nb-7Zr-5Ta. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 7967	1.6	0
8	A novel crack-free Ti-modified Mo alloy designed for laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2022 , 164802	5.7	0
7	Ti6Al7NbTiB nanocomposites for ortho-implant applications. <i>Journal of Materials Research</i> ,1	2.5	0
6	High-entropy eutectic composites with high strength and low Young's modulus. <i>Material Design and Processing Communications</i> , 2020 , 3, e211	0.9	
5	Crystallization and growth kinetics of Zr65Cu25Ni5Ag2.5Al2.5 glass. <i>Material Design and Processing Communications</i> , 2020 , 2, e137	0.9	
4	Powder metallurgy of high-strength Al90.4Y4.4Ni4.3Co0.9 gas-atomized powder 2012 , 1017-1022		
3	Powder Metallurgy of High Strength Al90.4Gd4.4Ni4.3Co0.9 Gas-atomized Powder1017-1022		
2	Phase Formation, Microstructure and Mechanical Properties of Mg67Ag33 as Potential Biomaterial. <i>Metals</i> , 2021 , 11, 461	2.3	
1	Influence of substrate plate heating on the fabrication of Al-12Si produced by selective laser melting 2021 , 6, 1027		