

# Konda Gokuldoss Prashanth

## 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.

177  
papers

6,658  
citations

40  
h-index

77  
g-index

190  
ext. papers

8,521  
ext. citations

4.2  
avg, IF

6.55  
L-index

#	Paper	IF	Citations
177	Mechanical and Tribological Behavior of Gravity and Squeeze Cast Novel Al-Si Alloy. <i>Metals</i> , <b>2022</b> , 12, 194	2.3	0
176	Laser additive manufacturing of nano-TiC particles reinforced CoCrFeMnNi high-entropy alloy matrix composites with high strength and ductility. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 833, 142512	5.3	2
175	Maximizing the degree of rejuvenation in metallic glasses. <i>Scripta Materialia</i> , <b>2022</b> , 212, 114575	5.6	2
174	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> , <b>2022</b> , 897, 163207	5.7	4
173	Effect of the Laser Processing Parameters on the Selective Laser Melting of TiC/Be-Based Cermets. <i>Journal of Manufacturing and Materials Processing</i> , <b>2022</b> , 6, 35	2.2	1
172	A novel crack-free Ti-modified Mo alloy designed for laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 164802	5.7	0
171	A Review on Development of Bio-Inspired Implants Using 3D Printing. <i>Biomimetics</i> , <b>2021</b> , 6,	3.7	6
170	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> , <b>2021</b> , 52, 5329 <sup>2,3</sup>	2.3	1
169	Phase Formation, Microstructure and Mechanical Properties of Mg67Ag33 as Potential Biomaterial. <i>Metals</i> , <b>2021</b> , 11, 461	2.3	
168	Selective laser melting of CuNiSn: A comprehensive study on the microstructure, mechanical properties, and deformation behavior. <i>International Journal of Plasticity</i> , <b>2021</b> , 138, 102926	7.6	24
167	Annealing of Al-Zn-Mg-Cu Alloy at High Pressures: Evolution of Microstructure and the Corrosion Behavior. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
166	Microstructural evolution and mechanical properties of selective laser melted Ti-6Al-4V induced by annealing treatment. <i>Journal of Central South University</i> , <b>2021</b> , 28, 1068-1077	2.1	5
165	Spark plasma sintering of molybdenum silicides synthesized from oxide precursors. <i>Ceramics International</i> , <b>2021</b> , 47, 13827-13836	5.1	0
164	Additive Manufacturing of Aluminum-Based Metal Matrix Composites—A Review. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2100053	3.5	5
163	Influence of substrate plate heating on the fabrication of Al-12Si produced by selective laser melting <b>2021</b> , 6, 1027		
162	Spark plasma sintering of Ti6Al4V metal matrix composites: Microstructure, mechanical and corrosion properties. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 865, 158875	5.7	6
161	In Vitro Corrosion Behavior of Selective Laser Melted Ti-35Nb-7Zr-5Ta. <i>Journal of Materials Engineering and Performance</i> , <b>2021</b> , 30, 7967	1.6	0

160	Texture dependent strain hardening in additively manufactured stainless steel 316L. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 820, 141483	5.3	7
159	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> , <b>2021</b> , 870, 159436	5.7	9
158	Biomorphic porous Ti6Al4V gyroid scaffolds for bone implant applications fabricated by selective laser melting. <i>Progress in Additive Manufacturing</i> , <b>2021</b> , 6, 455-469	5	4
157	Selective laser melting of Ti6Al4V: Effect of laser re-melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 805, 140558	5.3	24
156	Additive manufacturing of a martensitic CoCrMo alloy: Towards circumventing the strength-ductility trade-off. <i>Additive Manufacturing</i> , <b>2021</b> , 37, 101725	6.1	6
155	Effect of Substrate Plate Heating on the Microstructure and Properties of Selective Laser Melted Al-20Si-5Fe-3Cu-1Mg Alloy. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
154	The Impact Resistance of Highly Densified Metal Alloys Manufactured from Gas-Atomized Pre-Alloyed Powders. <i>Coatings</i> , <b>2021</b> , 11, 216	2.9	5
153	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> , <b>2021</b> , 68, 1387-1394	5	5
152	Effect of nanoparticles on morphology and size of primary silicon and property of selective laser melted Al-high Si content alloys. <i>Vacuum</i> , <b>2021</b> , 191, 110405	3.7	2
151	Microstructure and mechanical properties of NiTi-SS bimetallic structures built using Wire Arc Additive Manufacturing. <i>Materials Letters</i> , <b>2021</b> , 303, 130499	3.3	3
150	High-entropy eutectic composites with high strength and low Young's modulus. <i>Material Design and Processing Communications</i> , <b>2020</b> , 3, e211	0.9	
149	Grain refinement in laser manufactured Al-based composites with TiB <sub>2</sub> ceramic. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 2611-2622	5.5	23
148	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> , <b>2020</b> , 108, 103839	4.1	11
147	Comparison of additively manufacturing samples fabricated from pre-alloyed and mechanically mixed powders. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 830, 154603	5.7	13
146	Thermal expansion behavior of AlSi alloys fabricated using selective laser melting. <i>Progress in Additive Manufacturing</i> , <b>2020</b> , 5, 247-257	5	5
145	Creep and high temperature fatigue performance of as build selective laser melted Ti-based 6Al-4V titanium alloy. <i>Engineering Failure Analysis</i> , <b>2020</b> , 111, 104477	3.2	16
144	Frictional Wear and Corrosion Behavior of AlCoCrFeNi High-Entropy Alloy Coatings Synthesized by Atmospheric Plasma Spraying. <i>Entropy</i> , <b>2020</b> , 22,	2.8	19
143	Selective laser melting of nanostructured Al-Y-Ni-Co alloy. <i>Manufacturing Letters</i> , <b>2020</b> , 25, 21-25	4.5	4

142	Competition between densification and microstructure of functional materials by Selective Laser Melting. <i>Material Design and Processing Communications</i> , <b>2020</b> , 2, e146	0.9	3
141	Crystallization and growth kinetics of Zr <sub>65</sub> Cu <sub>25</sub> Ni <sub>5</sub> Ag <sub>2.5</sub> Al <sub>2.5</sub> glass. <i>Material Design and Processing Communications</i> , <b>2020</b> , 2, e137	0.9	
140	Solidification of Al-xCu alloy under high pressures. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 2983-2991	5.5	11
139	Linear patterning of high entropy alloy by additive manufacturing. <i>Manufacturing Letters</i> , <b>2020</b> , 24, 9-13	4.5	20
138	Aluminum matrix composites reinforced with metallic glass particles with core-shell structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 771, 138630	5.3	15
137	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> , <b>2020</b> , 88, 105192	4.1	14
136	In situ fabrication of TiC-NiCr cermets by selective laser melting. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2020</b> , 87, 105171	4.1	15
135	Novel welding of Al <sub>0.5</sub> CoCrFeNi high-entropy alloy: Corrosion behavior. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 817, 153163	5.7	20
134	Selective Laser Melting of Aluminum and Its Alloys. <i>Materials</i> , <b>2020</b> , 13,	3.5	24
133	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> , <b>2020</b> , 9, 13097-13105	5.5	13
132	CoB-TiB <sub>2</sub> crystalline powders: Synthesis, microstructural analysis and their utilization as reinforcement agent. <i>Advanced Powder Technology</i> , <b>2020</b> , 31, 2964-2972	4.6	1
131	Selective laser manufacturing of Ti-based alloys and composites: impact of process parameters, application trends, and future prospects. <i>Materials Today Advances</i> , <b>2020</b> , 8, 100097	7.4	33
130	Role of impinging powder particles on melt pool hydrodynamics, thermal behaviour and microstructure in laser-assisted DED process: A particle-scale DEM-ICFD-ICA approach. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 158, 119989	4.9	11
129	Effect of selective laser melting process parameters on microstructural and mechanical properties of TiC-NiCr cermet. <i>Ceramics International</i> , <b>2020</b> , 46, 28749-28757	5.1	8
128	Electron-beam welding of high-entropy alloy and stainless steel: microstructure and mechanical properties. <i>Materials and Manufacturing Processes</i> , <b>2020</b> , 35, 1885-1894	4.1	8
127	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> , <b>2020</b> , 4, 93	2.2	2
126	Powder metallurgy of Al <sub>0.1</sub> CoCrFeNi high-entropy alloy. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 2835-2847	4.7	8
125	Selective laser melting of high-strength, low-modulus TiB <sub>5</sub> Nb <sub>7</sub> Zr <sub>5</sub> Ta alloy. <i>Materialia</i> , <b>2020</b> , 14, 100941	3.2	19

124	A review of particulate-reinforced aluminum matrix composites fabricated by selective laser melting. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2020</b> , 30, 2001-2034	3.3	48
123	Effect of lattice surface treatment on performance of hardmetal - titanium interpenetrating phase composites. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2020</b> , 86, 105087	4.1	10
122	Microstructure and mechanical property of bimodal-size metallic glass particle-reinforced Al alloy matrix composites. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 814, 152317	5.7	15
121	Microstructure and properties of in-situ high entropy alloy/tungsten carbide composites by mechanical alloying.. <i>Material Design and Processing Communications</i> , <b>2020</b> ,	0.9	1
120	Premature failure of an additively manufactured material. <i>NPG Asia Materials</i> , <b>2020</b> , 12,	10.3	44
119	Selective laser melting of 316L stainless steel: Influence of TiB <sub>2</sub> addition on microstructure and mechanical properties. <i>Materials Today Communications</i> , <b>2019</b> , 21, 100615	2.5	19
118	Tungsten Matrix Composite Reinforced with CoCrFeMnNi High-Entropy Alloy: Impact of Processing Routes on Microstructure and Mechanical Properties. <i>Metals</i> , <b>2019</b> , 9, 992	2.3	8
117	Effect of TiB <sub>2</sub> particles on microstructure and crystallographic texture of Al-12Si fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 786, 551-556	5.7	56
116	Friction welding of electron beam melted Ti-6Al-4V. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 761, 138045	5.3	9
115	Dissimilar welding of Al <sub>0.1</sub> CoCrFeNi high-entropy alloy and AISI304 stainless steel. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 2683-2694	2.5	30
114	Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in CoCrFeNiNb high-entropy composites. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 2672-2682	2.5	4
113	Bioceramic scaffolds by additive manufacturing for controlled delivery of the antibiotic vancomycin. <i>Proceedings of the Estonian Academy of Sciences</i> , <b>2019</b> , 68, 185	1.6	20
112	Tribological properties of selective laser melted Al <sub>12</sub> Si alloy. <i>Tribology International</i> , <b>2019</b> , 137, 94-101	4.9	22
111	Superior Wear Resistance in EBM-Processed TC4 Alloy Compared with SLM and Forged Samples. <i>Materials</i> , <b>2019</b> , 12,	3.5	16
110	Design of next-generation alloys for additive manufacturing. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e50	0.9	7
109	Work hardening in selective laser melted Al-12Si alloy. <i>Material Design and Processing Communications</i> , <b>2019</b> , 1, e46	0.9	6
108	Impact of the scanning strategy on the mechanical behavior of 316L steel synthesized by selective laser melting. <i>Journal of Manufacturing Processes</i> , <b>2019</b> , 45, 255-261	5	46
107	Face centered cubic titanium in high pressure torsion processed carbon nanotubes reinforced titanium composites. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 806, 939-945	5.7	2

106	Microstructure and Mechanical Properties of Al-(12-20)Si Bi-Material Fabricated by Selective Laser Melting. <i>Materials</i> , <b>2019</b> , 12,	3.5	19
105	Mechanical Behavior of Ti6Al4V Scaffolds Filled with CaSiO <sub>3</sub> for Implant Applications. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 3844	2.6	19
104	Co-Cr-Mo-C-B metallic glasses with wide supercooled liquid region obtained by systematic adjustment of the metalloid ratio. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 505, 310-319	3.9	4
103	Removing the oxide layer in a nanostructured aluminum alloy by local shear deformation between nanoscale phases. <i>Powder Technology</i> , <b>2019</b> , 343, 733-737	5.2	1
102	Powder metallurgy of Al-based composites reinforced with Fe-based glassy particles: Effect of microstructural modification. <i>Particulate Science and Technology</i> , <b>2019</b> , 37, 286-291	2	6
101	Anisotropy in local microstructure Does it affect the tensile properties of the SLM samples?. <i>Manufacturing Letters</i> , <b>2018</b> , 15, 33-37	4.5	37
100	Al <sub>2</sub> O <sub>3</sub> -TiC Composite Prepared by Spark Plasma Sintering Process: Evaluation of Mechanical and Tribological Properties. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 997-1004	1.6	2
99	High strength nanostructured Al-based alloys through optimized processing of rapidly quenched amorphous precursors. <i>Scientific Reports</i> , <b>2018</b> , 8, 1090	4.9	16
98	Microstructure and strength of nano-/ultrafine-grained carbon nanotube-reinforced titanium composites processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 722, 122-128	5.3	22
97	Comparative investigation of microstructure, mechanical properties and strengthening mechanisms of Al-12Si/TiB <sub>2</sub> fabricated by selective laser melting and hot pressing. <i>Ceramics International</i> , <b>2018</b> , 44, 17635-17642	5.1	43
96	Enhancing the interface bonding in carbon nanotubes reinforced Al matrix composites by the in situ formation of TiAl <sub>3</sub> and TiC. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 765, 98-105	5.7	23
95	A novel high-strength Al-based nanocomposite reinforced with Ti-based metallic glass nanoparticles produced by powder metallurgy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 734, 34-41	5.3	33
94	Phase formation, microstructure and deformation behavior of heavily alloyed TiNb- and TiV-based titanium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 733, 80-86	5.3	28
93	Pressure-assisted sintering of Al <sub>0.5</sub> Ni <sub>0.5</sub> amorphous alloy powders. <i>Materialia</i> , <b>2018</b> , 2, 157-166	3.2	10
92	Influence of Powder Characteristics on Processability of AlSi12 Alloy Fabricated by Selective Laser Melting. <i>Materials</i> , <b>2018</b> , 11,	3.5	59
91	Mechanical and Tribological Properties of Al <sub>2</sub> O <sub>3</sub> -TiC Composite Fabricated by Spark Plasma Sintering Process with Metallic (Ni, Nb) Binders. <i>Metals</i> , <b>2018</b> , 8, 50	2.3	17
90	Microstructure evolution and hot deformation behavior of spray-deposited TiAl alloys. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 2844-2852	2.5	2
89	Cooperative deformation behavior between the shear band and boundary sliding of an Al-based nanostructure-dendrite composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 735, 81-88	5.3	19

88	Microstructure and mechanical properties of Al-Cu alloys fabricated by selective laser melting of powder mixtures. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 735, 2263-2266	5.7	63
87	Microstructure and mechanical properties of a heat-treatable Al-3.5Cu-1.5Mg-1Si alloy produced by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 711, 562-570	5.3	73
86	Influence of Nb on the Microstructure and Fracture Toughness of (ZrFe)Nb Nano-Eutectic Composites. <i>Materials</i> , <b>2018</b> , 11,	3.5	10
85	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> , <b>2018</b> , 49, 6469-6478	2.3	5
84	Plastic deformation mechanisms in severely strained eutectic high entropy composites explained via strain rate sensitivity and activation volume. <i>Composites Part B: Engineering</i> , <b>2018</b> , 150, 7-13	10	23
83	Effect of boron addition on thermal and mechanical properties of Co-Cr-Mo-C-(B) glass-forming alloys. <i>Intermetallics</i> , <b>2018</b> , 99, 1-7	3.5	15
82	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> , <b>2018</b> , 109, 121-136	7.6	31
81	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> , <b>2017</b> , 707, 63-67	5.7	6
80	Designing a novel functional-structural NiTi/hydroxyapatite composite with enhanced mechanical properties and high bioactivity. <i>Intermetallics</i> , <b>2017</b> , 84, 35-41	3.5	9
79	Microstructure and thermal expansion behavior of Al-50Si synthesized by selective laser melting. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 699, 548-553	5.7	39
78	Effect of Si content on the microstructure and properties of AlSi alloys fabricated using hot extrusion. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 2210-2217	2.5	23
77	Reciprocating sliding wear behavior of high-strength nanocrystalline Al 84 Ni 7 Gd 6 Co 3 alloys. <i>Wear</i> , <b>2017</b> , 382-383, 78-84	3.5	11
76	Is the energy density a reliable parameter for materials synthesis by selective laser melting?. <i>Materials Research Letters</i> , <b>2017</b> , 5, 386-390	7.4	182
75	Mechanical behavior of selective laser melted 316L stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 696, 113-121	5.3	300
74	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> , <b>2017</b> , 709, 329-336	5.7	18
73	Rapid fabrication of function-structure-integrated NiTi alloys: Towards a combination of excellent superelasticity and favorable bioactivity. <i>Intermetallics</i> , <b>2017</b> , 82, 1-13	3.5	8
72	Formation of metastable cellular microstructures in selective laser melted alloys. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 27-34	5.7	235
71	Defining the tensile properties of Al-12Si parts produced by selective laser melting. <i>Acta Materialia</i> , <b>2017</b> , 126, 25-35	8.4	208

70	Microstructure evolution and mechanical properties of carbon nanotubes reinforced Al matrix composites. <i>Materials Characterization</i> , <b>2017</b> , 133, 122-132	3.9	40
69	Designing a multifunctional Ti-2Cu-4Ca porous biomaterial with favorable mechanical properties and high bioactivity. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 727, 338-345	5.7	6
68	Tensile, fracture, and fatigue crack growth properties of a 3D printed maraging steel through selective laser melting. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 725, 355-364	5.7	131
67	Friction welding of selective laser melted Ti6Al4V parts. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 704, 66-71	5.3	29
66	Selective laser melting of Al-Zn-Mg-Cu: Heat treatment, microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 707, 287-290	5.7	102
65	Additive Manufacturing Processes: Selective Laser Melting, Electron Beam Melting and Binder Jetting-Selection Guidelines. <i>Materials</i> , <b>2017</b> , 10,	3.5	301
64	Effect of Al <sub>2</sub> O <sub>3</sub> Nanoparticles as Reinforcement on the Tensile Behavior of Al-12Si Composites. <i>Metals</i> , <b>2017</b> , 7, 359	2.3	23
63	Additive Manufacturing: Reproducibility of Metallic Parts. <i>Technologies</i> , <b>2017</b> , 5, 8	2.4	27
62	Evaluation of mechanical and wear properties of Ti <sub>x</sub> Nb <sub>7</sub> Fe alloys designed for biomedical applications. <i>Materials and Design</i> , <b>2016</b> , 111, 592-599	8.1	129
61	Simultaneous enhancements of strength and toughness in an Al-12Si alloy synthesized using selective laser melting. <i>Acta Materialia</i> , <b>2016</b> , 115, 285-294	8.4	287
60	Microstructure and phase formation in Al <sub>20</sub> Si <sub>8</sub> Fe <sub>3</sub> Cu <sub>1</sub> Mg synthesized by selective laser melting. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 657, 430-435	5.7	55
59	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. <i>Technologies</i> , <b>2016</b> , 4, 33	2.4	16
58	Characterization of 316L Steel Cellular Dodecahedron Structures Produced by Selective Laser Melting. <i>Technologies</i> , <b>2016</b> , 4, 34	2.4	32
57	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> , <b>2016</b> , 4, 37	2.4	21
56	Tensile Properties of Al-12Si Fabricated via Selective Laser Melting (SLM) at Different Temperatures. <i>Technologies</i> , <b>2016</b> , 4, 38	2.4	24
55	Effect of high pressure solidification on tensile properties and strengthening mechanisms of Al-20Si. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 88-93	5.7	28
54	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> , <b>2016</b> , 119, 073908	2.5	23
53	Processing of Al <sub>2</sub> Si <sub>3</sub> NM composites by selective laser melting and evaluation of compressive and wear properties. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 55-65	2.5	84

52	Compression behavior of inter-particle regions in high-strength Al <sub>84</sub> Ni <sub>7</sub> Gd <sub>6</sub> Co <sub>3</sub> alloy. <i>Materials Letters</i> , <b>2016</b> , 185, 25-28	3.3	7
51	Production of high strength Al <sub>85</sub> Nd <sub>8</sub> Ni <sub>5</sub> Co <sub>2</sub> alloy by selective laser melting. <i>Additive Manufacturing</i> , <b>2015</b> , 6, 1-5	6.1	101
50	Influence of milling time on microstructure and magnetic properties of Fe <sub>80</sub> P <sub>11</sub> C <sub>9</sub> alloy produced by mechanical alloying. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 395, 354-360	2.8	10
49	Fabrication of Fe-based bulk metallic glass by selective laser melting: A parameter study. <i>Materials and Design</i> , <b>2015</b> , 86, 703-708	8.1	179
48	Length scale-dependent structural relaxation in Zr <sub>57.5</sub> Ti <sub>7.5</sub> Nb <sub>5</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Al <sub>7.5</sub> metallic glass. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 639, 465-469	5.7	19
47	Selective Laser Melting of Ti-45Nb Alloy. <i>Metals</i> , <b>2015</b> , 5, 686-694	2.3	60
46	Evolution of microstructure and mechanical properties of as-cast Al-50Si alloy due to heat treatment and P modifier content. <i>Materials &amp; Design</i> , <b>2015</b> , 74, 150-156		37
45	Effect of Powder Particle Shape on the Properties of In Situ Ti <sub>6</sub> Al <sub>4</sub> V Composite Materials Produced by Selective Laser Melting. <i>Journal of Materials Science and Technology</i> , <b>2015</b> , 31, 1001-1005	9.1	156
44	Microstructure and mechanical properties of Mg <sub>2</sub> Al <sub>3</sub> -based alloy modified with cerium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 625, 46-49	5.3	27
43	Comparison of wear properties of commercially pure titanium prepared by selective laser melting and casting processes. <i>Materials Letters</i> , <b>2015</b> , 142, 38-41	3.3	177
42	The thermal expansion behaviour of SiCp/Al <sub>70</sub> Si composites solidified under high pressures. <i>Materials &amp; Design</i> , <b>2015</b> , 65, 387-394		43
41	Effect of Milling Time and the Consolidation Process on the Properties of Al Matrix Composites Reinforced with Fe-Based Glassy Particles. <i>Metals</i> , <b>2015</b> , 5, 669-685	2.3	20
40	Additive manufacturing of Cu <sub>10</sub> Sn bronze. <i>Materials Letters</i> , <b>2015</b> , 156, 202-204	3.3	150
39	Hybrid nanostructured aluminum alloy with super-high strength. <i>NPG Asia Materials</i> , <b>2015</b> , 7, e229-e229	10.3	70
38	Mechanical behavior of porous commercially pure Ti and Ti <sub>6</sub> Al <sub>4</sub> V composite materials manufactured by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 625, 350-356	5.3	185
37	Tensile properties of Al <sub>70</sub> Si matrix composites reinforced with Ti <sub>6</sub> Al <sub>4</sub> V-based particles. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 630, 256-259	5.7	34
36	Fabrication and mechanical properties of Al-based metal matrix composites reinforced with Mg <sub>65</sub> Cu <sub>20</sub> Zn <sub>5</sub> Y <sub>10</sub> metallic glass particles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 600, 53-58	5.3	62
35	Mechanical behavior of Al-based matrix composites reinforced with Mg <sub>58</sub> Cu <sub>28.5</sub> Gd <sub>11</sub> Ag <sub>2.5</sub> metallic glasses. <i>Advanced Powder Technology</i> , <b>2014</b> , 25, 635-639	4.6	37

34	Al-based metal matrix composites reinforced with Fe <sub>49.9</sub> Co <sub>35.1</sub> Nb <sub>7.7</sub> B <sub>4.5</sub> Si <sub>2.8</sub> glassy powder: Mechanical behavior under tensile loading. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 615, S382-S385	5-7	44
33	Tensile properties of Al matrix composites reinforced with in situ devitrified Al <sub>84</sub> Gd <sub>6</sub> Ni <sub>7</sub> Co <sub>3</sub> glassy particles. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, S419-S422	5-7	47
32	Microstructure and mechanical properties of Al <sub>92</sub> Si produced by selective laser melting: Effect of heat treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 590, 153-160	5-3	481
31	High-strength ultrafine grain Mg <sub>94.4</sub> %Al alloy synthesized by consolidation of mechanically alloyed powders. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 610, 456-461	5-7	28
30	Effect of ball milling on structure and thermal stability of Al <sub>84</sub> Gd <sub>6</sub> Ni <sub>7</sub> Co <sub>3</sub> glassy powders. <i>Intermetallics</i> , <b>2014</b> , 46, 97-102	3-5	20
29	Influence of Annealing on Mechanical Properties of Al-20Si Processed by Selective Laser Melting. <i>Metals</i> , <b>2014</b> , 4, 28-36	2-3	117
28	Tribological and corrosion properties of Al <sub>92</sub> Si produced by selective laser melting. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 2044-2054	2-5	108
27	Friction welding of Al <sub>92</sub> Si parts produced by selective laser melting. <i>Materials &amp; Design</i> , <b>2014</b> , 57, 632-637		80
26	Microstructure and magnetic properties of soft magnetic composites based on silicon resin coated Co <sub>40</sub> Fe <sub>22</sub> Ta <sub>8</sub> B <sub>30</sub> glassy powders. <i>Intermetallics</i> , <b>2013</b> , 43, 1-7	3-5	12
25	Fabrication and characterization of bulk glassy Co <sub>40</sub> Fe <sub>22</sub> Ta <sub>8</sub> B <sub>30</sub> alloy with high thermal stability and excellent soft magnetic properties. <i>Acta Materialia</i> , <b>2013</b> , 61, 6609-6621	8-4	25
24	Production of customized hybrid porous structures by powder metallurgy of Ni <sub>59</sub> Zr <sub>20</sub> Ti <sub>16</sub> Si <sub>2</sub> Sn <sub>3</sub> glassy powders. <i>Journal of Materials Research</i> , <b>2013</b> , 28, 2490-2498	2-5	3
23	Production of Porous $\beta$ -Type Ti-40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. <i>Materials</i> , <b>2013</b> , 6, 5700-5712	3-5	63
22	Synthesis and Characterization of Nanocrystalline Mg-7.4%Al Powders Produced by Mechanical Alloying. <i>Metals</i> , <b>2013</b> , 3, 58-68	2-3	16
21	Phase transitions in Al <sub>3</sub> Ca <sub>8</sub> and Al <sub>14</sub> Ca <sub>13</sub> intermetallic compounds induced by milling and annealing. <i>Materials Letters</i> , <b>2012</b> , 79, 145-147	3-3	4
20	Mechanical behavior of the cold-rolled Zr <sub>57</sub> Ti <sub>8</sub> Nb <sub>2.5</sub> Cu <sub>13.9</sub> Ni <sub>11.1</sub> Al <sub>7.5</sub> metallic glass-quasicrystalline composite. <i>International Journal of Materials Research</i> , <b>2012</b> , 103, 1113-1116	0-5	2
19	Modeling the strengthening effect of Al <sub>92</sub> CuBe quasicrystalline particles in Al-based metal matrix composites. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S130-S133	5-7	51
18	Powder metallurgy of high-strength Al <sub>90.4</sub> Y <sub>4.4</sub> Ni <sub>4.3</sub> Co <sub>0.9</sub> gas-atomized powder <b>2012</b> , 1017-1022		
17	Fabrication and Response of Al <sub>70</sub> Y <sub>16</sub> Ni <sub>10</sub> Co <sub>4</sub> Glass Reinforced Metal Matrix Composites. <i>Materials and Manufacturing Processes</i> , <b>2011</b> , 26, 1242-1247	4-1	20

16	Structural and Mechanical Characterization of ZrTiCuNiAl Bulk Metallic Glass. <i>Materials</i> , <b>2011</b> , 5, 1-11	3.5	8
15	Influence of Mechanical Activation on Decomposition of Titanium Hydride. <i>Materials and Manufacturing Processes</i> , <b>2010</b> , 25, 974-977	4.1	28
14	Production, Kinetic Study and Properties of Fe-Based Glass and Its Composites. <i>Materials and Manufacturing Processes</i> , <b>2010</b> , 25, 592-597	4.1	17
13	Crystallization behavior and consolidation of gas-atomized Al <sub>84</sub> Gd <sub>6</sub> Ni <sub>7</sub> Co <sub>3</sub> glassy powder. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 491, 137-142	5.7	36
12	Comment on the paper "Thermal stability of the Al <sub>70</sub> Ni <sub>10</sub> Ti <sub>10</sub> Zr <sub>5</sub> Ta <sub>5</sub> 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> , <b>2010</b> , 507, L32-L34	5.7	5
11	Al-based metal matrix composites reinforced with nanocrystalline Al-Ti-Ni particles. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 240, 012154	0.3	8
10	Crystallization kinetics of Zr <sub>65</sub> Ag <sub>5</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Al <sub>7.5</sub> glassy powders produced by ball milling of pre-alloyed ingots. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 513-514, 279-285	5.3	20
9	Mechanical properties of Al-based metal matrix composites reinforced with Zr-based glassy particles produced by powder metallurgy. <i>Acta Materialia</i> , <b>2009</b> , 57, 2029-2039	8.4	194
8	Crystallization kinetics and consolidation of mechanically alloyed Al <sub>70</sub> Y <sub>16</sub> Ni <sub>10</sub> Co <sub>4</sub> glassy powders. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 171-177	5.7	40
7	Dissimilar welding of high-entropy alloy to Inconel 718 superalloy for structural applications. <i>Journal of Materials Research</i> , 1	2.5	1
6	Powder Metallurgy of High Strength Al <sub>90.4</sub> Gd <sub>4.4</sub> Ni <sub>4.3</sub> Co <sub>0.9</sub> Gas-atomized Powder	1017-1022	
5	Ti <sub>6</sub> Al <sub>7</sub> Nb-based TiB-reinforced composites by selective laser melting. <i>Journal of Materials Research</i> , 1	2.5	3
4	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
3	Mechanisms controlling fracture toughness of additively manufactured stainless steel 316L. <i>International Journal of Fracture</i> , 1	2.3	4
2	Laser Hybrid Wire Arc Additive Manufacturing for Fabricating Thin Sections		1
1	Ti <sub>6</sub> Al <sub>7</sub> Nb-TiB nanocomposites for ortho-implant applications. <i>Journal of Materials Research</i> , 1	2.5	0