## Dong-dong Gu

## 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.

183 8,731 49 87 g-index

188 10,853 5.2 7.05 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
183	Effects of processing parameters on densification behavior, microstructure evolution and mechanical properties of WIII alloy fabricated by laser powder bed fusion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 829, 142177	5.3	5
182	In-situ synthesis of aluminum matrix nanocomposites by selective laser melting of carbon nanotubes modified Al-Mg-Sc-Zr alloys. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 891, 162047	5.7	1
181	Roadmap for Additive Manufacturing: Toward Intellectualization and Industrialization <b>2022</b> , 1, 100014		1
180	Laser Additive Manufacturing of Bio-inspired Metallic Structures 2022, 1, 100013		0
179	Multi-material additive manufacturing of a bio-inspired layered ceramic/metal structure: Formation mechanisms and mechanical properties. <i>International Journal of Machine Tools and Manufacture</i> , <b>2022</b> , 175, 103872	9.4	1
178	Laser powder bed fusion of a novel nano-modified tungsten alloy with refined microstructure and enhanced strength. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 843, 143096	5.3	2
177	A large compressive recoverable strain induced by heterogeneous microstructure in a Ni50.6Ti49.4 shape memory alloy via laser powder bed fusion and subsequent aging treatment. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165620	5.7	O
176	Mechanical Behavior of NiTi-Based Circular Tube Chiral Structure Manufactured by Selective Laser Melting. <i>Smart Innovation, Systems and Technologies</i> , <b>2021</b> , 227-237	0.5	О
175	Additively manufacturing-enabled hierarchical NiTi-based shape memory alloys with high strength and toughness. <i>Virtual and Physical Prototyping</i> , <b>2021</b> , 16, S19-S38	10.1	10
174	Role of laser scan strategies in defect control, microstructural evolution and mechanical properties of steel matrix composites prepared by laser additive manufacturing. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2021</b> , 28, 462-474	3.1	6
173	Material-structure-performance integrated laser-metal additive manufacturing. Science, 2021, 372,	33.3	128
172	Selective laser melting of graphene reinforced titanium matrix composites: Powder preparation and its formability. <i>Advanced Powder Technology</i> , <b>2021</b> , 32, 1426-1437	4.6	10
171	Thermal behavior and fluid dynamics within molten pool during laser inside additive manufacturing of 316L stainless steel coating on inner surface of steel tube. <i>Optics and Laser Technology</i> , <b>2021</b> , 138, 106917	4.2	6
170	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
169	Compression performance and mechanism of superimposed sine-wave structures fabricated by selective laser melting. <i>Materials and Design</i> , <b>2021</b> , 198, 109291	8.1	2
168	Laser additive manufacturing of cellular structure with enhanced compressive performance inspired by AlBi crystalline microstructure. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2021</b> , 32, 26-36	3.4	3
167	Novel WC-reinforced iron-based composites with excellent mechanical properties synthesized by laser additive manufacturing: Underlying role of reinforcement weight fraction. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 289, 116959	5.3	7

## (2020-2021)

166	Influence of environmental constraints and carrier gas velocity on powder concentration and temperature distribution during laser inside additive manufacturing process. CIRP Journal of Manufacturing Science and Technology, 2021, 32, 70-80	3.4	4
165	Effect of process parameters on the microstructure and mechanical properties of AA2024 fabricated using selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 112, 175-192	3.2	14
164	Laser powder bed fusion of bio-inspired honeycomb structures: Effect of twist angle on compressive behaviors. <i>Thin-Walled Structures</i> , <b>2021</b> , 159, 107252	4.7	16
163	Mechanisms of laser energy absorption and melting behavior during selective laser melting of titanium-matrix composite: role of ceramic addition. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 115103	33	О
162	Laser powder bed fusion of bio-inspired reticulated shell structure: Optimization mechanisms of structure, process, and compressive property. <i>CIRP Journal of Manufacturing Science and Technology</i> , <b>2021</b> , 35, 1-12	3.4	6
161	Effects of laser scanning strategies on selective laser melting of pure tungsten. <i>International Journal of Extreme Manufacturing</i> , <b>2020</b> , 2, 025001	7.9	24
160	Microstructure and tribological property of selective laser melted Ni-based composites using different scanning strategies. <i>Vacuum</i> , <b>2020</b> , 177, 109439	3.7	8
159	Achieving high strength and high ductility in WC-reinforced iron-based composites by laser additive manufacturing. <i>Additive Manufacturing</i> , <b>2020</b> , 35, 101195	6.1	8
158	Grain refinement in laser manufactured Al-based composites with TiB2 ceramic. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 2611-2622	5.5	23
157	Thermal behavior and microstructure evolution mechanism of W-20%Fe alloy fabricated by laser metal deposition. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 183, 105772	5.5	3
156	Tailored pore canal characteristics and compressive deformation behavior of bionic porous NiTi shape memory alloy prepared by selective laser melting. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 09500	0³ <sup>.4</sup>	3
155	Laser metal deposition for additive manufacturing of AA5024 and nanoparticulate TiC modified AA5024 alloy composites prepared with balling milling process. <i>Optics and Laser Technology</i> , <b>2020</b> , 131, 106438	4.2	17
154	Mesoscopic study of thermal behavior, fluid dynamics and surface morphology during selective laser melting of Ti-based composites. <i>Computational Materials Science</i> , <b>2020</b> , 177, 109598	3.2	15
153	Effect of ceramic particle size on densification behavior, microstructure formation, and performance of TiB2-reinforced Al-based composites prepared by selective laser melting. <i>Journal of Materials Research</i> , <b>2020</b> , 35, 559-570	2.5	6
152	Selective laser melting of silver submicron powder modified 316L stainless steel: Influence of silver addition on microstructures and performances. <i>Powder Technology</i> , <b>2020</b> , 364, 478-483	5.2	11
151	Multistep active screen plasma co-alloying the treatment of metallic bipolar plates. <i>Surface Engineering</i> , <b>2020</b> , 36, 539-546	2.6	6
150	Laser additive manufactured high-performance Fe-based composites with unique strengthening structure. <i>Journal of Materials Science and Technology</i> , <b>2020</b> ,	9.1	7
149	Formation mechanisms of TiB2 tracks on Ti6Al4V alloy during selective laser melting of ceramic-metal multi-material. <i>Powder Technology</i> , <b>2020</b> , 367, 597-607	5.2	19

148	Effect of Trace Addition of Ceramic on Microstructure Development and Mechanical Properties of Selective Laser Melted AlSi10Mg Alloy. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2020</b> , 33,	2.5	8
147	Influence of scanning strategy and parameter on microstructural feature, residual stress and performance of Sc and Zr modified AlMg alloy produced by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> ,	5.3	22
146	Influence of heat treatment on corrosion behavior of rare earth element Sc modified Al-Mg alloy processed by selective laser melting. <i>Applied Surface Science</i> , <b>2020</b> , 509, 145330	6.7	25
145	Laser additive manufacturing of bio-inspired lattice structure: Forming quality, microstructure and energy absorption behavior. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 773, 138857	5.3	27
144	Microstructure development, tribological property and underlying mechanism of laser additive manufactured submicro-TiB2 reinforced Al-based composites. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 819, 152980	5.7	26
143	Carbon Nanotubes Enabled Laser 3D Printing of High-Performance Titanium with Highly Concentrated Reinforcement. <i>IScience</i> , <b>2020</b> , 23, 101498	6.1	20
142	Influence of structural features on processability, microstructures, chemical compositions, and hardness of selective laser melted complex thin-walled components. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2020</b> , 109, 1643-1654	3.2	6
141	Laser 3D printed bio-inspired impact resistant structure: failure mechanism under compressive loading. <i>Virtual and Physical Prototyping</i> , <b>2020</b> , 15, 75-86	10.1	20
140	Anisotropic corrosion behavior of Sc and Zr modified Al-Mg alloy produced by selective laser melting. <i>Corrosion Science</i> , <b>2020</b> , 170, 108657	6.8	36
139	Laser additive manufacturing of nano-TiC reinforced Ni-based nanocomposites with tailored microstructure and performance. <i>Composites Part B: Engineering</i> , <b>2019</b> , 163, 585-597	10	74
138	Effect of post heat treatment on microstructure and mechanical properties of Ni-based composites by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 765, 138294	5.3	19
137	Compressive Properties of Bio-Inspired Reticulated Shell Structures Processed by Selective Laser Melting. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1801168	3.5	12
136	Influence of thermal behavior along deposition direction on microstructure and microhardness of laser melting deposited metallic parts. <i>Applied Physics A: Materials Science and Processing</i> , <b>2019</b> , 125, 1	2.6	7
135	Laser absorption behavior of randomly packed powder-bed during selective laser melting of SiC and TiB2 reinforced Al matrix composites. <i>Optics and Laser Technology</i> , <b>2019</b> , 119, 105600	4.2	33
134	Selective laser melting processing of 316L stainless steel: effect of microstructural differences along building direction on corrosion behavior. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 104, 2669-2679	3.2	13
133	Selective laser melting additive manufacturing of pure tungsten: Role of volumetric energy density on densification, microstructure and mechanical properties. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 84, 105025	4.1	40
132	Selective laser melted TiB2/Ti6Al4V graded materials and first-principle calculations. <i>Materials Letters</i> , <b>2019</b> , 254, 33-36	3.3	12
131	Laser additive manufacturing of layered TiB2/Ti6Al4V multi-material parts: Understanding thermal behavior evolution. <i>Optics and Laser Technology</i> , <b>2019</b> , 119, 105666	4.2	21

130	Influence of Particle Size on Laser Absorption and Scanning Track Formation Mechanisms of Pure Tungsten Powder During Selective Laser Melting. <i>Engineering</i> , <b>2019</b> , 5, 736-745	9.7	32	
129	Laser additive manufacturing of carbon nanotubes (CNTs) reinforced aluminum matrix nanocomposites: Processing optimization, microstructure evolution and mechanical properties. <i>Additive Manufacturing</i> , <b>2019</b> , 29, 100801	6.1	24	
128	Microstructure evolution and high-temperature oxidation behaviour of selective laser melted TiC/TiAl composites. <i>Surface and Coatings Technology</i> , <b>2019</b> , 375, 534-543	4.4	24	
127	Mechanical properties and deformation behavior under compressive loading of selective laser melting processed bio-inspired sandwich structures. <i>Materials Science &amp; Dispineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2019</b> , 762, 138089	5.3	22	
126	Metallic integrated thermal protection structures inspired by the Norway spruce stem: Design, numerical simulation and selective laser melting fabrication. <i>Optics and Laser Technology</i> , <b>2019</b> , 115, 9-19	4.2	19	
125	Anisotropic corrosion resistance of TiC reinforced Ni-based composites fabricated by selective laser melting. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 1128-1136	9.1	35	
124	Selective laser melting additive manufacturing of cancer pagurus claw inspired bionic structures with high strength and toughness. <i>Applied Surface Science</i> , <b>2019</b> , 469, 647-656	6.7	14	
123	Formation of scanning tracks during Selective Laser Melting (SLM) of pure tungsten powder: Morphology, geometric features and forming mechanisms. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 79, 37-46	4.1	45	
122	Fragmentation and refinement behavior and underlying thermodynamic mechanism of WC reinforcement during selective laser melting of Ni-based composites. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 777, 693-702	5.7	21	
121	Surface wettability and superhydrophobic characteristics of Ni-based nanocomposites fabricated by selective laser melting. <i>Applied Surface Science</i> , <b>2019</b> , 476, 151-160	6.7	27	
120	Microstructure characteristics and its formation mechanism of selective laser melting SiC reinforced Al-based composites. <i>Vacuum</i> , <b>2019</b> , 160, 189-196	3.7	39	
119	On the role of powder flow behavior in fluid thermodynamics and laser processability of Ni-based composites by selective laser melting. <i>International Journal of Machine Tools and Manufacture</i> , <b>2019</b> , 137, 67-78	9.4	83	
118	Influence of laser parameters and complex structural features on the bio-inspired complex thin-wall structures fabricated by selective laser melting. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 267, 34-43	5.3	22	
117	Optimization of bio-inspired bi-directionally corrugated panel impact-resistance structures: Numerical simulation and selective laser melting process. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 91, 59-67	4.1	19	
116	Selective laser melting of titanium parts: Influence of laser process parameters on macro- and microstructures and tensile property. <i>Powder Technology</i> , <b>2019</b> , 342, 371-379	5.2	52	
115	Microstructure evolution, mechanical response and underlying thermodynamic mechanism of multi-phase strengthening WC/Inconel 718 composites using selective laser melting. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 747, 684-695	5.7	23	
114	Influence of substrate surface morphology on wetting behavior of tracks during selective laser melting of aluminum-based alloys. <i>Journal of Zhejiang University: Science A</i> , <b>2018</b> , 19, 111-121	2.1	10	
113	Selective laser melting of high strength and toughness stainless steel parts: The roles of laser hatch style and part placement strategy. <i>Materials Science &amp; Description of the Processing</i> <b>2018</b> , 725, 419-427	5.3	39	

112	On the role of heat and mass transfer into laser processability during selective laser melting AlSi12 alloy based on a randomly packed powder-bed. <i>Modern Physics Letters B</i> , <b>2018</b> , 32, 1850105	1.6	3
111	Selective growth of Ni4Ti3 precipitate variants induced by complicated cyclic stress during laser additive manufacturing of NiTi-based composites. <i>Materials Characterization</i> , <b>2018</b> , 143, 191-196	3.9	17
110	Laser energy absorption behavior of powder particles using ray tracing method during selective laser melting additive manufacturing of aluminum alloy. <i>Materials and Design</i> , <b>2018</b> , 143, 12-19	8.1	51
109	In-situ formation of Ni4Ti3 precipitate and its effect on pseudoelasticity in selective laser melting additive manufactured NiTi-based composites. <i>Applied Surface Science</i> , <b>2018</b> , 441, 862-870	6.7	34
108	Modeling and simulation of the columnar-to-equiaxed transition during laser melting deposition of Invar alloy. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 755, 123-134	5.7	28
107	Laser additive manufactured WC reinforced Fe-based composites with gradient reinforcement/matrix interface and enhanced performance. <i>Composite Structures</i> , <b>2018</b> , 192, 387-396	5.3	36
106	Influence of scan strategy and molten pool configuration on microstructures and tensile properties of selective laser melting additive manufactured aluminum based parts. <i>Optics and Laser Technology</i> , <b>2018</b> , 99, 91-100	4.2	76
105	Selective laser melting of rare earth element Sc modified aluminum alloy: Thermodynamics of precipitation behavior and its influence on mechanical properties. <i>Additive Manufacturing</i> , <b>2018</b> , 23, 1-1	2 <sup>6.1</sup>	47
104	Relation of thermal behavior and microstructure evolution during multi-track laser melting deposition of Ni-based material. <i>Optics and Laser Technology</i> , <b>2018</b> , 108, 207-217	4.2	34
103	Development of interfacial stress during selective laser melting of TiC reinforced TiAl composites: Influence of geometric feature of reinforcement. <i>Materials and Design</i> , <b>2018</b> , 157, 1-11	8.1	12
102	A novel approach to direct preparation of complete lath martensite microstructure in tool steel by selective laser melting. <i>Materials Letters</i> , <b>2018</b> , 227, 128-131	3.3	28
101	Al2O3 nanoparticles reinforced Fe-Al laser cladding coatings with enhanced mechanical properties. Journal of Alloys and Compounds, <b>2018</b> , 755, 41-54	5.7	31
100	Melt spreading behavior, microstructure evolution and wear resistance of selective laser melting additive manufactured AlN/AlSi10Mg nanocomposite. <i>Surface and Coatings Technology</i> , <b>2018</b> , 349, 279-	2 <del>88</del>	38
99	Nitrogen mass transfer and surface layer formation during the active screen plasma nitriding of austenitic stainless steels. <i>Vacuum</i> , <b>2018</b> , 148, 224-229	3.7	28
98	The influence of heat input on the microstructure and solute segregation mechanism of invar alloy laser melting deposition process. <i>Materials Research Express</i> , <b>2018</b> , 5, 116530	1.7	4
97	The Role of Reinforcing Particle Size in Tailoring Interfacial Microstructure and Wear Performance of Selective Laser Melting WC/Inconel 718 Composites. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2018</b> , 140,	3.3	14
96	Heat-induced molten pool boundary softening behavior and its effect on tensile properties of laser additive manufactured aluminum alloy. <i>Vacuum</i> , <b>2018</b> , 154, 341-350	3.7	14
95	Microstructure and performance evolution and underlying thermal mechanisms of Ni-based parts fabricated by selective laser melting. <i>Additive Manufacturing</i> , <b>2018</b> , 22, 265-278	6.1	51

94	Selective laser melting additive manufacturing of in situ Al2Si4O10/Al composites: Microstructural characteristics and mechanical properties. <i>Journal of Composite Materials</i> , <b>2017</b> , 51, 519-532	2.7	20
93	Porosity evolution and its thermodynamic mechanism of randomly packed powder-bed during selective laser melting of Inconel 718 alloy. <i>International Journal of Machine Tools and Manufacture</i> , <b>2017</b> , 116, 96-106	9.4	147
92	Laser Metal Deposition Additive Manufacturing of TiC Reinforced Inconel 625 Composites: Influence of the Additive TiC Particle and Its Starting Size. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2017</b> , 139,	3.3	18
91	Thermodynamic behaviour and formation mechanism of novel titanium carbide dendritic crystals within a molten pool of selective laser melting TiC/TiNi composites. <i>CrystEngComm</i> , <b>2017</b> , 19, 1089-1099	93.3	17
90	Structural optimization of re-entrant negative Poisson's ratio structure fabricated by selective laser melting. <i>Materials and Design</i> , <b>2017</b> , 120, 307-316	8.1	39
89	Influence of additive multilayer feature on thermodynamics, stress and microstructure development during laser 3D printing of aluminum-based material. <i>Science Bulletin</i> , <b>2017</b> , 62, 779-787	10.6	29
88	Thermal behavior and formation mechanism of a typical micro-scale node-structure during selective laser melting of Ti-based porous structure. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 1506-1516	2.5	6
87	Selective laser melting of advanced Al-Al 2 O 3 nanocomposites: Simulation, microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 698, 162-173	5.3	71
86	A Multiscale Understanding of the Thermodynamic and Kinetic Mechanisms of Laser Additive Manufacturing. <i>Engineering</i> , <b>2017</b> , 3, 675-684	9.7	61
85	Macro and nanoscale wear behaviour of Al-Al2O3 nanocomposites fabricated by selective laser melting. <i>Composites Part B: Engineering</i> , <b>2017</b> , 127, 26-35	10	70
84	Improving additive manufacturing processability of hard-to-process overhanging structure by selective laser melting. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 250, 99-108	5.3	70
83	Surface modification of 316 stainless steel with platinum for the application of bipolar plates in high performance proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 2338-2348	6.7	24
82	Relation of microstructure, microhardness and underlying thermodynamics in molten pools of laser melting deposition processed TiC/Inconel 625 composites. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 692, 758-769	5.7	60
81	Microstructure and composition homogeneity, tensile property, and underlying thermal physical mechanism of selective laser melting tool steel parts. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 279-289	5.3	65
80	Laser Additive Manufacturing of Novel Aluminum Based Nanocomposite Parts: Tailored Forming of Multiple Materials. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2016</b> , 138,	3.3	12
79	Influence of hatch spacing on heat and mass transfer, thermodynamics and laser processability during additive manufacturing of Inconel 718 alloy. <i>International Journal of Machine Tools and Manufacture</i> , <b>2016</b> , 109, 147-157	9.4	108
78	Effect of metallurgical defect and phase transition on geometric accuracy and wear resistance of iron-based parts fabricated by selective laser melting. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 1477-149	o².5	13
77	Influence of processing parameters on laser penetration depth and melting/re-melting densification during selective laser melting of aluminum alloy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	34

76	Materials creation adds new dimensions to 3D printing. Science Bulletin, 2016, 61, 1718-1722	10.6	21
75	Influence of thermodynamics within molten pool on migration and distribution state of reinforcement during selective laser melting of AlN/AlSi10Mg composites. <i>International Journal of Machine Tools and Manufacture</i> , <b>2016</b> , 100, 14-24	9.4	122
74	Selective Laser Melting Additive Manufacturing of Hard-to-Process Tungsten-Based Alloy Parts With Novel Crystalline Growth Morphology and Enhanced Performance. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2016</b> , 138,	3.3	21
73	Finite element simulation and experimental investigation of residual stresses in selective laser melted TiNi shape memory alloy. <i>Computational Materials Science</i> , <b>2016</b> , 117, 221-232	3.2	80
72	Formation mechanism and microstructural and mechanical properties of in-situ TiNi-based composite coatings by laser metal deposition. <i>Surface and Coatings Technology</i> , <b>2016</b> , 291, 43-53	4.4	15
71	Effect of the Thermodynamic Behavior of Selective Laser Melting on the Formation of In situ Oxide Dispersion-Strengthened Aluminum-Based Composites. <i>Metals</i> , <b>2016</b> , 6, 286	2.3	25
70	Role of melt behavior in modifying oxidation distribution using an interface incorporated model in selective laser melting of aluminum-based material. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 083104	2.5	16
69	Selective laser melting 3D printing of Ni-based superalloy: understanding thermodynamic mechanisms. <i>Science Bulletin</i> , <b>2016</b> , 61, 1013-1022	10.6	71
68	Direct metal laser sintering synthesis of carbon nanotube reinforced Ti matrix composites: Densification, distribution characteristics and properties. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 281-29	9 <sup>2</sup> 1·5	16
67	Effects of laser processing parameters on thermal behavior and melting/solidification mechanism during selective laser melting of TiC/Inconel 718 composites. <i>Optics and Laser Technology</i> , <b>2016</b> , 84, 9-2.	2 <sup>4.2</sup>	140
66	Formation of novel graded interface and its function on mechanical properties of WC1\(\mathbb{N}\) reinforced Inconel 718 composites processed by selective laser melting. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 680, 333-342	5.7	63
65	On the role of processing parameters in thermal behavior, surface morphology and accuracy during laser 3D printing of aluminum alloy. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 135501	3	41
64	Effects of tailored gradient interface on wear properties of WC/Inconel 718 composites using selective laser melting. <i>Surface and Coatings Technology</i> , <b>2016</b> , 307, 418-427	4.4	71
63	Particulate migration behavior and its mechanism during selective laser melting of TiC reinforced Al matrix nanocomposites. <i>Materials and Design</i> , <b>2015</b> , 82, 46-55	8.1	110
62	Effect of metal vaporization behavior on keyhole-mode surface morphology of selective laser melted composites using different protective atmospheres. <i>Applied Surface Science</i> , <b>2015</b> , 355, 310-319	6.7	77
61	Selective Laser Melting Additive Manufacturing of Novel Aluminum Based Composites With Multiple Reinforcing Phases. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2015</b> , 137,	3.3	54
60	Nanoscale TiC Particle-Reinforced AlSi10Mg Bulk-Form Nanocomposites by Selective Laser Melting (SLM) Additive Manufacturing (AM): Tailored Microstructures and Enhanced Properties <b>2015</b> , 175-199		1
59	Laser Additive Manufacturing (AM): Classification, Processing Philosophy, and Metallurgical Mechanisms <b>2015</b> , 15-71		9

58	Laser Additive Manufacturing of High-Performance Materials 2015,		77
57	Selective laser melting of in-situ Al4SiC4 + SiC hybrid reinforced Al matrix composites: Influence of starting SiC particle size. <i>Surface and Coatings Technology</i> , <b>2015</b> , 272, 15-24	4.4	109
56	Laser additive manufacturing of ultrafine TiC particle reinforced Inconel 625 based composite parts: Tailored microstructures and enhanced performance. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 635, 118-128	5.3	90
55	Tailored growth of in situAl4SiC4 in laser melted aluminum melt. <i>Modern Physics Letters B</i> , <b>2015</b> , 29, 155	5 <b>Q</b> Ø19	3
54	Rapid fabrication of Al-based bulk-form nanocomposites with novel reinforcement and enhanced performance by selective laser melting. <i>Scripta Materialia</i> , <b>2015</b> , 96, 25-28	5.6	159
53	Tailoring surface quality through mass and momentum transfer modeling using a volume of fluid method in selective laser melting of TiC/AlSi10Mg powder. <i>International Journal of Machine Tools and Manufacture</i> , <b>2015</b> , 88, 95-107	9.4	144
52	Aluminum-based nanocomposites with hybrid reinforcements prepared by mechanical alloying and selective laser melting consolidation. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 2816-2828	2.5	13
51	Laser metal deposition additive manufacturing of TiC/Inconel 625 nanocomposites: Relation of densification, microstructures and performance. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 3616-3628	2.5	22
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