

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.

527 papers	11,515 citations	53 h-index	79 g-index
549 ext. papers	14,279 ext. citations	4.6 avg, IF	6.8 L-index

#	Paper	IF	Citations
527	High strength in-situ beta reinforced Ti-based bulk metallic glass composite produced by laser Powder Bed Fusion using elemental powder mixture. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 833, 142559	5.3	0
526	Effect of Al content on microstructure and microhardness of Inconel 718 superalloy fabricated by laser additive manufacturing. <i>Journal of Materials Research and Technology</i> , 2022 , 16, 1832-1845	5.5	3
525	Preface to the Special Issue: Additive Manufacturing. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022 , 35, 353	2.5	
524	Laser powder bed fusion of Zr-modified AlCuMg alloy: Crack-inhibiting, grain refinement, and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 838, 142618	5.3	2
523	Interfacial Characteristics and Mechanical Behavior of Hybrid Manufactured AlSi10Mg/Al6061 Bimetal via Selective Laser Melting and Forging. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022 , 35, 375	2.5	0
522	Anisotropic high cycle fatigue property of Sc and Zr-modified Al-Mg alloy fabricated by laser powder bed fusion. <i>Additive Manufacturing</i> , 2022 , 49, 102514	6.1	0
521	Investigation of phase evolution and tensile fracture behavior of Ti5Al2Sn2Zr4Mo4Cr alloy fabricated by directed energy deposition. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163497	5.7	0
520	Composition fine-tuning for directed energy deposition of Ti-6Al-4V. <i>Journal of Materials Processing Technology</i> , 2022 , 299, 117321	5.3	3
519	Synergistic effect of Mo and Zr additions on microstructure and mechanical properties of Nb-Ti-Si-based alloys additively manufactured by laser directed energy deposition. <i>Journal of Materials Science and Technology</i> , 2022 , 103, 84-97	9.1	2
518	Microstructure and room-temperature tensile property of Ti-5.7Al-4.0Sn-3.5Zr-0.4Mo-0.4Si-0.4Nb-1.0Ta-0.05C with near equiaxed grain fabricated by laser directed energy deposition technique. <i>Journal of Materials Science and Technology</i> , 2022 , 101, 308-320	9.1	3
517	Effect of dimensionless heat input during laser solid forming of high-strength steel. <i>Journal of Materials Science and Technology</i> , 2022 , 99, 127-137	9.1	0
516	Precipitation behavior of Nb-Si-based in-situ composite manufactured by laser directed energy deposition. <i>Scripta Materialia</i> , 2022 , 207, 114288	5.6	1
515	Effect of laser additive manufacturing on the microstructure and mechanical properties of TiB2 reinforced Al-Cu matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 840, 142950	5.3	3
514	The effect of Al content on Ti/Zr-based bulk metallic glass composite by additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143162	5.3	
513	Effect of line energy density in repairing 34CrNiMo6 steel by electron beam remelting. <i>Journal of Manufacturing Processes</i> , 2022 , 79, 314-325	5	0
512	Sliding wear and induced-microstructure of Ti-6Al-4V alloys: Effect of additive laser technology. <i>Tribology International</i> , 2022 , 173, 107633	4.9	1
511	Structural evolution and mechanical properties of TiB2 reinforced 2024Al composite stimulated by heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143290	5.3	0

510	Hot workability and microstructural evolution of a nickel-based superalloy fabricated by laser-based directed energy deposition. <i>Journal of Alloys and Compounds</i> , 2022 , 165373	5.7	0
509	The formation and dissolution mechanisms of Laves phase in Inconel 718 fabricated by selective laser melting compared to directed energy deposition and cast. <i>Composites Part B: Engineering</i> , 2022 , 239, 109994	10	0
508	Electrochemical dissolution behavior of Ti6Al4V alloy: Effect of microstructure and processing method. <i>Journal of Materials Processing Technology</i> , 2022 , 117646	5.3	0
507	Unveiling the transpassive film failure of 3D printing transition alloys. <i>Corrosion Science</i> , 2022 , 204, 110462	6.8	0
506	Residual Stresses Control in Additive Manufacturing. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 138	2.2	3
505	Microstructure and Wear Behavior of Nano-TiB ₂ p/2024Al Matrix Composites Fabricated by Laser Direct Energy Deposition With Powder Feeding. <i>Journal of Tribology</i> , 2021 , 143,	1.8	2
504	The heterogeneous band microstructure and mechanical performance in a wire + arc additively manufactured 2219 Al alloy. <i>Additive Manufacturing</i> , 2021 , 49, 102486	6.1	1
503	Influence of post-heat treatment on the microstructure and mechanical properties of Al-Cu-Mg-Zr alloy manufactured by selective laser melting. <i>Journal of Materials Science and Technology</i> , 2021 , 111, 35-35	9.1	3
502	On the role of energy input in the surface morphology and microstructure during selective laser melting of Inconel 718 alloy. <i>Journal of Materials Research and Technology</i> , 2021 , 11, 392-403	5.5	5
501	Microstructure and anodic electrochemical behavior of additive manufactured Hastelloy X alloy via directed energy deposition. <i>Additive Manufacturing</i> , 2021 , 39, 101824	6.1	0
500	Influence of processing parameters on deposition characteristics of Inconel 625 superalloy fabricated by laser solid forming. <i>Journal of Central South University</i> , 2021 , 28, 1003-1014	2.1	0
499	Warpage Analysis and Control of Thin-Walled Structures Manufactured by Laser Powder Bed Fusion. <i>Metals</i> , 2021 , 11, 686	2.3	8
498	Substrate design to minimize residual stresses in Directed Energy Deposition AM processes. <i>Materials and Design</i> , 2021 , 202, 109525	8.1	19
497	Distinction in electrochemical behaviour of Ti6Al4V alloy produced by direct energy deposition and forging. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 157912	5.7	6
496	Keyhole mode induced simultaneous improvement in strength and ductility of Sc modified AlMn alloy manufactured by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 811, 141089	5.3	8
495	Compatibility research of laser additive repairing TA15 forgings with Ti6Al4V-xTA15 alloy. <i>Journal of Central South University</i> , 2021 , 28, 1015-1027	2.1	1
494	Strengthening mechanisms in selective laser-melted Inconel718 superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 812, 141145	5.3	21
493	Laser powder bed fusion of high-strength Sc/Zr-modified AlMg alloy: phase selection, microstructural/mechanical heterogeneity, and tensile deformation behavior. <i>Journal of Materials Science and Technology</i> , 2021 , 95, 40-40	9.1	12

492	Phase and microstructure pattern selection of Zn-rich Zn/Cu peritectic alloys during laser surface remelting. <i>Journal of Materials Science</i> , 2021 , 56, 14314-14332	4.3	
491	Influence of heat treatments on the microstructure and mechanical properties of Inconel 625 fabricated by directed energy deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 817, 141309	5.3	7
490	Hot deformation induced microstructural evolution in local-heterogeneous wire + arc additive manufactured 2219 Al alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158949	5.7	11
489	Performance of different microstructure on electrochemical behaviors of laser solid formed Ti6Al4V alloy in NaCl solution. <i>Corrosion Science</i> , 2021 , 185, 109392	6.8	7
488	Long fatigue crack growth behavior of Ti6Al4V produced via high-power laser directed energy deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 819, 141392	5.3	6
487	Mechanical properties and precipitation behavior of the heat-treated wire + arc additively manufactured 2219 aluminum alloy. <i>Materials Characterization</i> , 2021 , 171, 110735	3.9	16
486	Effect of Cu content on microstructure and mechanical properties of in-situ β -phases reinforced Ti/Zr-based bulk metallic glass matrix composite by selective laser melting (SLM). <i>Journal of Materials Science and Technology</i> , 2021 , 67, 174-185	9.1	7
485	Microstructure evolution and mechanical properties at high temperature of selective laser melted AlSi10Mg. <i>Journal of Materials Science and Technology</i> , 2021 , 62, 162-172	9.1	22
484	Laser-based directed energy deposition of novel Sc/Zr-modified Al-Mg alloys: columnar-to-equiaxed transition and aging hardening behavior. <i>Journal of Materials Science and Technology</i> , 2021 , 69, 168-179	9.1	21
483	The effect of Mo on microstructure and mechanical properties of Nb-22Ti-16Si alloy additively manufactured via laser directed energy deposition. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 158143	5.7	1
482	Directed energy deposition additive manufacturing of a Sc/Zr-modified Al/Mg alloy: Effect of thermal history on microstructural evolution and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140606	5.3	13
481	Grain refinement and improved tensile properties of Ti5Al2Sn2Zr4Mo4Cr titanium alloy fabricated by laser solid forming. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 800, 140388	5.3	8
480	Microstructure and fatigue crack growth behavior of Inconel 718 superalloy manufactured by laser directed energy deposition. <i>International Journal of Fatigue</i> , 2021 , 143, 106005	5	13
479	Effect of cycling heat treatment on the microstructure, phase, and compression behaviour of directed energy deposited Ti-Mo alloys. <i>Light Advanced Manufacturing</i> , 2021 , 2, 1-12	1	
478	Microstructural evolution and anisotropic mechanical properties of Inconel 625 superalloy fabricated by directed energy deposition. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159426	5.7	10
477	Powder Flow Feed Behavior in Synchronous Induction-Assisted Laser Deposition. <i>Journal of Thermal Spray Technology</i> , 2021 , 30, 1512-1523	2.5	
476	Effect of solution temperature on the microstructure and mechanical properties of Hastelloy X superalloy fabricated by laser directed energy deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 820, 141537	5.3	8
475	Microstructural features of Ti-6Al-4V manufactured via high power laser directed energy deposition under low-cycle fatigue. <i>Journal of Materials Science and Technology</i> , 2021 , 83, 18-33	9.1	8

474	Characterizations of micro-nano structure and tensile properties of a Sc modified AlMn alloy fabricated by selective laser melting. <i>Materials Characterization</i> , 2021 , 178, 111305	3.9	4
473	Crystallization mechanism of Zr55Cu30Al10Ni5 metallic glass in an extended range of heating rates. <i>Intermetallics</i> , 2021 , 136, 107256	3.5	1
472	Room and high temperature high-cycle fatigue properties of Inconel 718 superalloy prepared using laser directed energy deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 825, 141865	5.3	6
471	The in-situ β phase reinforced Ti/Zr-based bulk metallic glass matrix composite by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 824, 141720	5.3	1
470	Effect of electrolyte solutions on the electrochemical dissolution behavior of additively manufactured Hastelloy X superalloy via laser solid forming. <i>Journal of Alloys and Compounds</i> , 2021 , 878, 160395	5.7	3
469	A novel high-efficient finite element analysis method of powder bed fusion additive manufacturing. <i>Additive Manufacturing</i> , 2021 , 46, 102187	6.1	6
468	Making selective-laser-melted high-strength AlMgScZr alloy tough via ultrafine and heterogeneous microstructure. <i>Scripta Materialia</i> , 2021 , 203, 114052	5.6	13
467	Microstructure evolution and mechanical properties of the wire + arc additive manufacturing Al-Cu alloy. <i>Additive Manufacturing</i> , 2021 , 47, 102298	6.1	3
466	Precipitation behavior of β phase and its effect on stress rupture properties of selective laser-melted Inconel 718 superalloy. <i>Composites Part B: Engineering</i> , 2021 , 224, 109202	10	2
465	Heat-affected coarsening of β grain in titanium alloy during laser directed energy deposition. <i>Scripta Materialia</i> , 2021 , 205, 114180	5.6	9
464	Overcoming the limitation of in-situ microstructural control in laser additive manufactured Ti6Al4V alloy to enhanced mechanical performance by integration of synchronous induction heating. <i>Journal of Materials Science and Technology</i> , 2021 , 94, 32-46	9.1	4
463	The Effect of Heat Treatment on Dynamic Properties of an Additively Manufactured Ti-6Al-4V Alloy. <i>Crystals</i> , 2021 , 11, 111	2.3	0
462	Influence of grain inhomogeneity and precipitates on the stress rupture properties of Inconel 718 superalloy fabricated by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140702	5.3	4
461	Electrochemical dissolution and passivation of laser additive manufactured Ti6Al4V controlled by elements segregation and phases distribution. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 3739-3751	3.3	0
460	A comparative study of laser metal deposited and forged Ti-6Al-4V alloy: Uniaxial mechanical response and vibration fatigue properties. <i>International Journal of Fatigue</i> , 2020 , 136, 105629	5	7
459	Comparison study on microstructure and mechanical properties of Ti-6Al-4V alloys fabricated by powder-based selective-laser-melting and sintering methods. <i>Materials Characterization</i> , 2020 , 164, 110358	3.9	25
458	Strength-ductility synergy of selective laser melted Al-Mg-Sc-Zr alloy with a heterogeneous grain structure. <i>Additive Manufacturing</i> , 2020 , 34, 101260	6.1	17
457	Compression behaviour of quasicrystal/Al composite with powder mixture driven layered microstructure prepared by selective laser melting. <i>Optics and Laser Technology</i> , 2020 , 129, 106277	4.2	9

456	Investigation on microstructure and properties of laser solid formed low expansion Invar 36 alloy. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 5827-5839	5.5	3
455	Thermal analysis of synchronous induction-assisted laser deposition of Ti-6Al-4V using different laser-induction interaction modes. <i>Additive Manufacturing</i> , 2020 , 35, 101267	6.1	2
454	Electrochemical dissolution behavior of heat treated laser solid formed Inconel718. <i>Corrosion Science</i> , 2020 , 173, 108750	6.8	8
453	Investigation of heating behavior of laser beam on powder stream in directed energy deposition. <i>Surface and Coatings Technology</i> , 2020 , 397, 126061	4.4	9
452	Thermal Boundary Evolution of Molten Pool During Wire and Arc Additive Manufacturing of Single Walls of 5A06 Aluminum Alloy. <i>Metals</i> , 2020 , 10, 848	2.3	2
451	Microstructure and mechanical properties of wire and arc additive manufactured AZ31 magnesium alloy using cold metal transfer process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138942	5.3	27
450	Microstructure, tensile and wear properties of a novel graded Al matrix composite prepared by direct energy deposition. <i>Journal of Alloys and Compounds</i> , 2020 , 826, 154077	5.7	10
449	Effect of boron on the microstructure and mechanical properties of Ti-6Al-4V produced by laser directed energy deposition after heat treatment. <i>Journal of Laser Applications</i> , 2020 , 32, 012007	2.1	5
448	Diverse Interface Structures in TiO ₂ (B)/Anatase Dual-Phase Nanofibers. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901819	4.6	2
447	Effects of subtransus heat treatments on microstructure features and mechanical properties of wire and arc additive manufactured Ti6Al4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 776, 139020	5.3	28
446	Element Vaporization of Ti-6Al-4V Alloy during Selective Laser Melting. <i>Metals</i> , 2020 , 10, 435	2.3	11
445	Influence of inclined substrate on process characteristics of directed energy deposition. <i>Optics and Laser Technology</i> , 2020 , 129, 106288	4.2	3
444	A Real-Time Method to Detect the Deformation Behavior during Laser Solid Forming of Thin-Wall Structure. <i>Metals</i> , 2020 , 10, 508	2.3	1
443	Selective laser melting of low modulus Ti-Mo alloy: A heterogeneous conchoidal structure. <i>Materials Letters</i> , 2020 , 267, 127544	3.3	13
442	Microstructure and isothermal oxidation behavior of Nb-Ti-Si-based alloy additively manufactured by powder-feeding laser directed energy deposition. <i>Corrosion Science</i> , 2020 , 173, 108757	6.8	5
441	Influence of post-heat-treatment on the microstructure and fracture toughness properties of Inconel 718 fabricated with laser directed energy deposition additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 798, 140092	5.3	28
440	On the effect of the thermal cycle during the directed energy deposition application to the in-situ production of a Ti-Mo alloy functionally graded structure. <i>Additive Manufacturing</i> , 2020 , 31, 100911	6.1	7
439	Plastic deformation behavior and dynamic recrystallization of Inconel 625 superalloy fabricated by directed energy deposition. <i>Materials and Design</i> , 2020 , 186, 108359	8.1	30

438	Effect of solution temperature on static recrystallization and ductility of Inconel 625 superalloy fabricated by directed energy deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138711	5.3	30
437	Crystallization behavior of Zr55Cu30Al10Ni5 amorphous alloys produced by selective laser melting of preannealed powders. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153013	5.7	6
436	A study on obtaining equiaxed prior- β grains of wire and arc additive manufactured Ti6Al4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138703	5.3	7
435	The microstructure evolution and tensile properties of Inconel 718 fabricated by high-deposition-rate laser directed energy deposition. <i>Additive Manufacturing</i> , 2020 , 31, 100941	6.1	15
434	Passive behavior of nickel-based superalloys prepared by high-deposition-rate laser solid forming additive manufacturing. <i>Corrosion Science</i> , 2020 , 177, 109036	6.8	10
433	Effect of isothermal temperature on bainite transformation, microstructure and mechanical properties of LSFed 300M steel. <i>Materials Today Communications</i> , 2020 , 25, 101452	2.5	2
432	Achieving superior ductility for laser directed energy deposition 300 M steel through isothermal bainitic transformation. <i>Journal of Manufacturing Processes</i> , 2020 , 60, 426-434	5	4
431	Modeling of the Effect of the Building Strategy on the Thermomechanical Response of Ti-6Al-4V Rectangular Parts Manufactured by Laser Directed Energy Deposition. <i>Metals</i> , 2020 , 10, 1643	2.3	8
430	Laves phase control of inconel 718 superalloy fabricated by laser direct energy deposition via β aging and solution treatment. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 9753-9765	5.5	32
429	Dynamic evolution of powder stream convergence with powder feeding durations in direct energy deposition. <i>International Journal of Machine Tools and Manufacture</i> , 2020 , 157, 103606	9.4	15
428	In situ tailoring microstructure in laser solid formed titanium alloy for superior fatigue crack growth resistance. <i>Scripta Materialia</i> , 2020 , 174, 53-57	5.6	22
427	Influence of travel speed on microstructure and mechanical properties of wire + arc additively manufactured 2219 aluminum alloy. <i>Journal of Materials Science and Technology</i> , 2020 , 37, 143-153	9.1	50
426	Direct laser deposited bulk CoCrFeNiNbx high entropy alloys. <i>Intermetallics</i> , 2019 , 114, 106592	3.5	26
425	In situ measurements and thermo-mechanical simulation of Ti6Al4V laser solid forming processes. <i>International Journal of Mechanical Sciences</i> , 2019 , 153-154, 119-130	5.5	34
424	Preparation and laser performances of Nd3+:GSGG ceramic powder raw materials. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 926-929	9.1	3
423	Influence of trace boron addition on microstructure, tensile properties and their anisotropy of Ti6Al4V fabricated by laser directed energy deposition. <i>Materials and Design</i> , 2019 , 181, 107943	8.1	38
422	Surface improvement of laser solid forming Inconel 718 by electrochemical machining. <i>Journal of Laser Applications</i> , 2019 , 31, 022516	2.1	
421	Selective Laser Melting (SLM) of in-situ beta phase reinforced Ti/Zr-based bulk metallic glass matrix composite. <i>Scripta Materialia</i> , 2019 , 171, 21-25	5.6	20

420	Effect of heat treatment on the microstructural evolution and mechanical properties of GH4099 additive-manufactured by directed energy deposition. <i>Journal of Alloys and Compounds</i> , 2019 , 800, 163-173	5.7	20
419	Low cycle fatigue properties of Ti-6Al-4V alloy fabricated by high-power laser directed energy deposition: Experimental and prediction. <i>International Journal of Fatigue</i> , 2019 , 127, 58-73	5	21
418	Large superelastic recovery and elastocaloric effect in as-deposited additive manufactured Ni50.8Ti49.2 alloy. <i>Applied Physics Letters</i> , 2019 , 114, 221903	3.4	13
417	Microstructure and properties of Ti-6Al-4V fabricated by low-power pulsed laser directed energy deposition. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2027-2037	9.1	26
416	A study of variant selection in laser solid forming Ti-6Al-4V. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 1261-1266	5.7	11
415	Thermomechanical behavior of laser metal deposited Inconel 718 superalloy over a wide range of temperature and strain rate: Testing and constitutive modeling. <i>Mechanics of Materials</i> , 2019 , 135, 13-25	3.3	18
414	Effect of selective post-aging treatment on subsurface damage of quasicrystal reinforced Al composite manufactured by selective laser melting. <i>Wear</i> , 2019 , 426-427, 934-941	3.5	5
413	Development of efficient distortion prediction numerical method for laser additive manufactured parts. <i>Journal of Laser Applications</i> , 2019 , 31, 022314	2.1	3
412	Microstructure and mechanical properties of laser solid formed 30CrMnSiNi2A ultra-high-strength steel. <i>Science and Technology of Welding and Joining</i> , 2019 , 24, 457-464	3.7	2
411	Multi-band tunable terahertz bandpass filter based on vanadium dioxide hybrid metamaterial. <i>Materials Research Express</i> , 2019 , 6, 055809	1.7	17
410	Bimodal hybrid lightweight sound-absorbing material with high stiffness. <i>Applied Physics Express</i> , 2019 , 12, 035002	2.4	3
409	Three dimensional dendritic morphology and orientation transition induced by high static magnetic field in directionally solidified Al-10 wt.%Zn alloy. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1587-1592	9.1	9
408	Effects of deposition strategies on macro/microstructure and mechanical properties of wire and arc additive manufactured Ti 6Al 4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 735-749	5.3	41
407	Research on the crystallization behavior occurred in the process of preparing bulk metallic glass with selective laser melting. <i>Materials Research Express</i> , 2019 , 6, 066582	1.7	2
406	Effect of stress-relief annealing on anodic dissolution behaviour of additive manufactured Ti-6Al-4V via laser solid forming. <i>Corrosion Science</i> , 2019 , 153, 314-326	6.8	33
405	Preparation and properties of a new porous ceramic material used in clean energy field. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1255-1260	9.1	2
404	Residual stress and distortion of rectangular and S-shaped Ti-6Al-4V parts by Directed Energy Deposition: Modelling and experimental calibration. <i>Additive Manufacturing</i> , 2019 , 26, 166-179	6.1	73
403	Microstructures and stress rupture properties of pulse laser repaired Inconel 718 superalloy after different heat treatments. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 125-135	5.7	38

402	Effect of microstructure on the Charpy impact properties of directed energy deposition 300M steel. <i>Additive Manufacturing</i> , 2019 , 29, 100795	6.1	8
401	A novel method for the molten pool and porosity formation modelling in selective laser melting. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 140, 1091-1105	4.9	42
400	Effect of layer band and heterogeneity of microstructure on electrochemical dissolution of laser solid formed Ti-6Al-4V alloy. <i>Journal of Laser Applications</i> , 2019 , 31, 022312	2.1	3
399	Compression behavior of selected laser melted Al/quasicrystal composite lattice structure. <i>Journal of Laser Applications</i> , 2019 , 31, 022311	2.1	1
398	Interactions between Nanoparticles and Polymers in the Diffusion Boundary Layer during Freezing Colloidal Suspensions. <i>Langmuir</i> , 2019 , 35, 10446-10452	4	4
397	In-situ observation and numerical simulation on the transient strain and distortion prediction during additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2019 , 38, 494-501	5	25
396	Lightweight mullite ceramics with controlled porosity and enhanced properties prepared by SLS using mechanical mixed FAHSS/polyamide12 composites. <i>Ceramics International</i> , 2019 , 45, 20803-20809	5.1	19
395	Fabrication of 3D Expanded Graphite-Based (MnO ₂ Nanowalls and PANI Nanofibers) Hybrid as Bifunctional Material for High-Performance Supercapacitor and Sensor. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3965-A3971	3.9	56
394	Microstructure and tensile properties of Ti-Mo alloys manufactured via using laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2019 , 771, 877-884	5.7	30
393	Solidification behavior and morphological evolution in laser surface forming of AlCoCrCuFeNi multi-layer high-entropy alloy coatings on AZ91D. <i>Journal of Alloys and Compounds</i> , 2019 , 772, 994-1002	5.7	17
392	The microstructure evolution and strengthening mechanism of a β -strengthening superalloy prepared by induction-assisted laser solid forming. <i>Journal of Alloys and Compounds</i> , 2019 , 780, 461-475	5.7	7
391	Laser solid forming additive manufacturing TiB ₂ reinforced 2024Al composite: Microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 745, 319-325	5.3	39
390	The recent progress on three-dimensional porous graphene-based hybrid structure for supercapacitor. <i>Composites Part B: Engineering</i> , 2019 , 165, 10-46	10	105
389	The influence of climate, topography, parent material and vegetation on soil nitrogen fractions. <i>Catena</i> , 2019 , 175, 329-338	5.8	17
388	Implementing continuous freeze-casting by separated control of thermal gradient and solidification rate. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 986-993	4.9	5
387	Zirconium modified Nb-22Ti-16Si alloys fabricated by laser additive manufacturing: Microstructure and fracture toughness. <i>Journal of Alloys and Compounds</i> , 2019 , 783, 66-76	5.7	16
386	Microstructure and compressive/tensile characteristic of large size Zr-based bulk metallic glass prepared by laser solid forming. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 328-335	9.1	19
385	High strength and ductility of 34CrNiMo6 steel produced by laser solid forming. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 377-387	9.1	13

384	Quantitative cellular automaton model and simulations of dendritic and anomalous eutectic growth. <i>Computational Materials Science</i> , 2019 , 156, 157-166	3.2	13
383	The research progress in mechanism and influence of biosorption between lactic acid bacteria and Pb(II): A review. <i>Critical Reviews in Food Science and Nutrition</i> , 2019 , 59, 395-410	11.5	20
382	Influence of process parameters and heat treatments on the microstructures and dynamic mechanical behaviors of Inconel 718 superalloy manufactured by laser metal deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 721, 215-225	5.3	47
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