

Zhuguo Li

List of Publications by Year in descending order

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172
papers

5,300
citations

81900

39
h-index

118850

62
g-index

174
all docs

174
docs citations

174
times ranked

3513
citing authors

#	ARTICLE	IF	CITATIONS
1	Strength and ductility optimization of laser additive manufactured metastable β titanium alloy by tuning β phase by post heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142265.	5.6	16
2	Irregular LIPSS produced on metals by single linearly polarized femtosecond laser. <i>International Journal of Extreme Manufacturing</i> , 2022, 4, 015102.	12.7	50
3	A method for evaluating the crack resistance and predicting the preheating temperature of high hardness coating prepared by laser cladding. <i>Surface and Coatings Technology</i> , 2022, 432, 128076.	4.8	10
4	Femtosecond Laser Generated Hierarchical Macropore/LIPSS Metasurfaces and Their Ultrabroadband Absorbance, Photothermal Properties, and Thermal-Induced Reflectance Oscillation. <i>ACS Applied Electronic Materials</i> , 2022, 4, 990-1001.	4.3	12
5	Study on microstructure and compressive properties of Fe-C-W-Cr-V-Nb coating with boron addition. <i>Journal of Alloys and Compounds</i> , 2022, 904, 163986.	5.5	3
6	Liquid vortexes and flows induced by femtosecond laser ablation in liquid governing formation of circular and crisscross LIPSS. <i>Opto-Electronic Advances</i> , 2022, 5, 210066-210066.	13.3	23
7	Liquid vortexes and flows induced by femtosecond laser ablation in liquid governing formation of circular and crisscross LIPSS. <i>Opto-Electronic Advances</i> , 2022, 5, 210066-210066.	13.3	3
8	Precipitation and crystallographic relationships of nanosized β -Ti ₂ Al ₃ precipitates at S-Al interface in Al-Zn-Mg-Cu alloy. <i>Scripta Materialia</i> , 2022, 214, 114643.	5.2	15
9	Hierarchical WO ₃ Ultrabroadband Absorbers and Photothermal Converters Grown from Femtosecond Laser-Induced Periodic Surface Structures. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 24046-24058.	8.0	5
10	Microstructure transition and mechanical properties of friction stir processed CoCrFeMnNi high entropy alloy fabricated by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 845, 143254.	5.6	8
11	Diverse nanomaterials synthesized by laser ablation of pure metals in liquids. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, .	5.1	8
12	Microstructure evolution and high temperature oxidation behavior of laser clad titanium-based composite modified by Nb/Si addition. <i>Surface and Coatings Technology</i> , 2022, 444, 128677.	4.8	1
13	Mechanism and optimization of activating fluxes for process stability and weldability of hybrid laser-arc welded HSLA steel. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 753-766.	2.5	3
14	Microstructure characteristics for quench sensitivity of in-situ TiB ₂ /7050Al composite. <i>Journal of Materials Research</i> , 2021, 36, 1341-1356.	2.6	5
15	Hierarchical refinement of nickel-microalloyed titanium during additive manufacturing. <i>Scripta Materialia</i> , 2021, 195, 113727.	5.2	32
16	Thermal Exposure Effect on the Microstructural and Mechanical Properties of a Laser-Welded Inconel 617 Joint in an Air Environment. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4328-4340.	2.5	2
17	Additively manufactured high strength and ductility CrCoNi medium entropy alloy with hierarchical microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141545.	5.6	38
18	Laser ablation in liquids for nanomaterial synthesis: diversities of targets and liquids. <i>JPhys Photonics</i> , 2021, 3, 042002.	4.6	50

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19	Laser Melting Deposition of CP-Ti/Tiâ€“0.4Ni Graded Material for Structural Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4742-4748.	2.2	5
20	Improved microstructures and mechanical properties for 7085Al alloy subjected to slow quenching by aging treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142068.	5.6	3
21	Femtosecond laser induced simultaneous functional nanomaterial synthesis, in situ deposition and hierarchical LIPSS nanostructuring for tunable antireflectance and iridescence applications. Journal of Materials Science and Technology, 2021, 89, 179-185.	10.7	27
22	Residual stress distribution and wear behavior in multi-pass laser clad Fe-based coating reinforced by M3(C, B). Journal of Materials Research and Technology, 2021, 15, 5597-5607.	5.8	11
23	Fiber laser welding of HSLA steel by autogenous laser welding and autogenous laser welding with cold wire methods. Journal of Materials Processing Technology, 2020, 275, 116353.	6.3	22
24	Influence of heat input on the changes in the microstructure and fracture behavior of laser welded 800MPa grade high-strength low-alloy steel. Journal of Manufacturing Processes, 2020, 50, 132-141.	5.9	32
25	Relationships among Charpy impact toughness, microstructure and fracture behavior in 10CrNi3MoV steel weld joint. Materials Letters, 2020, 281, 128328.	2.6	8
26	Effects of heat source arrangements on Laser-MAG hybrid welding characteristics and defect formation mechanism of 10CrNi3MoV steel. Journal of Manufacturing Processes, 2020, 58, 563-573.	5.9	21
27	The Effects of Micro-Segregation on Isothermal Transformed Nano Bainitic Microstructure and Mechanical Properties in Laser Clad Coatings. Materials, 2020, 13, 3017.	2.9	2
28	Suppression of intergranular corrosion by surface grain boundary engineering of 304 austenitic stainless steel using laser peening plus annealing. Materials Today Communications, 2020, 25, 101572.	1.9	14
29	Effects of Ti Addition on Microstructure and Tribological Properties of In Situ Composite Carbide Coating WC-TiC/FeNi Fabricated by Plasma Transferred Arc Metallurgical Reaction. Journal of Materials Engineering and Performance, 2020, 29, 8093-8106.	2.5	5
30	Cracking mechanism and mechanical properties of selective laser melted CoCrFeMnNi high entropy alloy using different scanning strategies. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 789, 139672.	5.6	52
31	Autonomous programming and adaptive filling of lap joint based on three-dimensional welding-seam model by laser scanning. Journal of Manufacturing Processes, 2020, 53, 396-405.	5.9	8
32	Corrosion properties of laser clad CrCoNi medium entropy alloy coating. Surface and Coatings Technology, 2020, 397, 126004.	4.8	62
33	Influence of in-situ synthesized carboborides on microstructure evolution and the wear resistance of laser clad Fe-base composite coatings. Materials Characterization, 2020, 164, 110326.	4.4	12
34	Effect of the Rare Earth Oxide CeO ₂ on the Microstructure and Properties of the Nano-WC-Reinforced Ni-Based Composite Coating. Metals, 2020, 10, 383.	2.3	20
35	Effects of rare earth elements on the microstructure and wear properties of TiB ₂ reinforced aluminum matrix composite coatings: Experiments and first principles calculations. Applied Surface Science, 2020, 530, 147051.	6.1	29
36	Mechanism of Zn Coating on the Wettability, Spreadability, and Microstructure of Al/Steel with the Laser Weldingâ€“Brazing Method. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1677-1688.	2.2	12

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37	Effect of MoO ₃ on the microstructure and tribological properties of laser-clad Ni60/nanoCu/h-BN/MoO ₃ composite coatings over wide temperature range. <i>Surface and Coatings Technology</i> , 2020, 387, 125477.	4.8	25
38	Dynamic features of plasma plume and molten pool in laser lap welding based on image monitoring and processing techniques. <i>Optics and Laser Technology</i> , 2019, 109, 168-177.	4.6	30
39	Effects of in-situ synthesized TiB ₂ on crystallographic orientation, grain size and nanohardness of AA6061 alloy by laser surface alloying. <i>Materials Letters</i> , 2019, 253, 213-217.	2.6	13
40	A novel method to increase the content of h-BN and the deposition efficiency of laser cladding Ni60/nano-Cu/h-BN coating by adding MoO ₃ . <i>Materials Letters</i> , 2019, 257, 126614.	2.6	3
41	Improving wear resistance and friction stability of FeNi matrix coating by in-situ multi-carbide WC-TiC via PTA metallurgical reaction. <i>Surface and Coatings Technology</i> , 2019, 378, 124957.	4.8	14
42	Effect of LaB ₆ addition on the microstructure and properties of (Ti ₃ Al+TiB)/Ti composites by laser cladding. <i>Materials and Design</i> , 2019, 181, 107959.	7.0	39
43	High Temperature Oxidation and Wear Resistance of In Situ Synthesized (Ti ₃ Al+TiB)/Ti Composites by Laser Cladding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 3414-3428.	2.2	6
44	Study on the weldability, microstructure and mechanical properties of thick Inconel 617 plate using narrow gap laser welding method. <i>Materials and Design</i> , 2019, 175, 107823.	7.0	56
45	3D reconstruction of complex spatial weld seam for autonomous welding by laser structured light scanning. <i>Journal of Manufacturing Processes</i> , 2019, 39, 200-207.	5.9	64
46	HCF Failure Modes and Mechanisms of Dissimilar Welds of Martensite/Austenite Metals at Elevated Temperature. <i>MATEC Web of Conferences</i> , 2019, 269, 03004.	0.2	0
47	Investigation of intrinsic correlation between microstructure evolution and mechanical properties for nickel-based weld metal. <i>Materials and Design</i> , 2019, 165, 107595.	7.0	7
48	Study on the element segregation and Laves phase formation in the laser metal deposited IN718 superalloy by flat top laser and gaussian distribution laser. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 339-347.	5.6	104
49	Effects of shielding gases on process stability of 10CrNi3MoV steel in hybrid laser-arc welding. <i>Journal of Materials Processing Technology</i> , 2019, 270, 37-46.	6.3	21
50	Quantitative relationship between weld defect characteristic and fatigue crack initiation life for high-cycle fatigue property. <i>International Journal of Fatigue</i> , 2019, 123, 238-247.	5.7	29
51	An adaptive slicing algorithm for laser cladding remanufacturing of complex components. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 2873-2887.	3.0	12
52	Microstructure and friction behavior of LaF ₃ doped Ti-MoS ₂ composite thin films deposited by unbalanced magnetron sputtering. <i>Surface and Coatings Technology</i> , 2019, 359, 334-341.	4.8	15
53	Microstructure and tribological properties of laser cladded self-lubricating nickel-base composite coatings containing nano-Cu and h-BN solid lubricants. <i>Surface and Coatings Technology</i> , 2019, 359, 485-494.	4.8	55
54	Interlayer thickening for development of laser-welded Ti-SS joint strength. <i>Optics and Laser Technology</i> , 2019, 112, 379-394.	4.6	14

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55	Study on the effect of Cu addition on the microstructure and properties of NiTi alloy fabricated by laser cladding. <i>Materials Letters</i> , 2018, 220, 148-151.	2.6	19
56	Cryogenic deformation mechanism of CrMnFeCoNi high-entropy alloy fabricated by laser additive manufacturing process. <i>International Journal of Lightweight Materials and Manufacture</i> , 2018, 1, 33-39.	2.1	56
57	Growth mechanism of in-situ WC grain in Fe-Ni-W-C alloys system. <i>Journal of Alloys and Compounds</i> , 2018, 738, 379-393.	5.5	36
58	Experimental Study of the Microstructure and Micromechanical Properties of Laser Cladded Ni-based Amorphous Composite Coatings. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 80-88.	2.5	10
59	Enhanced wear resistance of laser cladded graphene nanoplatelets reinforced Inconel 625 superalloy composite coating. <i>Surface and Coatings Technology</i> , 2018, 335, 334-344.	4.8	33
60	Fracture surface characterization of laser welding processed Ti alloy to stainless steel joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018, 62, 947-960.	2.5	14
61	The effect of humping on residual stress and distortion in high-speed laser welding using coupled CFD-FEM model. <i>Optics and Laser Technology</i> , 2018, 104, 201-205.	4.6	7
62	Characterization of high-gradient welded microstructure and its failure mode in fatigue test. <i>International Journal of Fatigue</i> , 2018, 113, 1-10.	5.7	10
63	In situ synthesised WC reinforced nickel coating by laser cladding. <i>Surface Engineering</i> , 2018, 34, 276-282.	2.2	24
64	Microstructure evolution and properties of in situ synthesized TiB ₂ -reinforced aluminum alloy by laser surface alloying. <i>Journal of Materials Research</i> , 2018, 33, 4307-4316.	2.6	4
65	Adaptive control for laser welding with filler wire of marine high strength steel with tight butt joints for large structures. <i>Journal of Manufacturing Processes</i> , 2018, 36, 434-441.	5.9	10
66	Effect of relative position in low-power pulsed-laser-tungsten-inert-gas hybrid welding on laser-arc interaction. <i>Journal of Manufacturing Processes</i> , 2018, 36, 426-433.	5.9	9
67	Enhanced Strength of 304 SS-Ti6Al4V Laser-Welded Joints Containing Composite Interlayers. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6135-6148.	2.5	5
68	Identification of the deviation of seam tracking and weld cross type for the derusting of ship hulls using a wall-climbing robot based on three-line laser structural light. <i>Journal of Manufacturing Processes</i> , 2018, 35, 295-306.	5.9	30
69	Microstructure and properties of in-situ synthesized (Ti ₃ Al+TiB)/Ti composites by laser cladding. <i>Materials and Design</i> , 2018, 157, 258-272.	7.0	65
70	Characterization on the Microstructure Evolution and Toughness of TIG Weld Metal of 25Cr2Ni2MoV Steel after Post Weld Heat Treatment. <i>Metals</i> , 2018, 8, 160.	2.3	7
71	Investigation on Microstructural Evolutions and Mechanical Properties of P92 Steel During Thermal Processing. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4392-4404.	2.5	1
72	Effect of different coatings on the weldability of Al to steel. <i>Journal of Physics: Conference Series</i> , 2018, 1063, 012072.	0.4	0

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73	Microstructure characterization and HCF fracture mode transition for modified 9Cr-1Mo dissimilarly welded joint at different elevated temperatures. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1610-1620.	10.7	15
74	Fiber laser welding of thick AISI 304 plate in a horizontal (2G) butt joint configuration. <i>Materials and Design</i> , 2017, 118, 53-65.	7.0	31
75	In situ synthesized high volume fraction WC reinforced Ni-based coating by laser cladding. <i>Materials Letters</i> , 2017, 195, 178-181.	2.6	104
76	High temperature tensile properties of laser-welded high-strength Mg-Gd-Y-Zr alloy in as-welded and heat-treated conditions. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 299-306.	2.5	5
77	Effects of the long-time thermal exposure on the microstructure and mechanical properties of laser weldings of Inconel 617. <i>Journal of Materials Processing Technology</i> , 2017, 247, 296-305.	6.3	18
78	Microstructure and corrosion properties of CrMnFeCoNi high entropy alloy coating. <i>Applied Surface Science</i> , 2017, 396, 1420-1426.	6.1	269
79	Microstructure and tribology behaviors of in-situ WC/Fe carbide coating fabricated by plasma transferred arc metallurgic reaction. <i>Applied Surface Science</i> , 2017, 423, 13-24.	6.1	47
80	The elimination of pores in laser welds of AISI 304 plate using different shielding gases. <i>Journal of Materials Processing Technology</i> , 2017, 248, 56-63.	6.3	31
81	Enhancement of high-temperature strength of Ni-based films by addition of nano-multilayers and incorporation of W. <i>Acta Materialia</i> , 2017, 133, 55-67.	7.9	19
82	Microstructural evolution and mechanical property of Ti-6Al-4V wall deposited by continuous plasma arc additive manufacturing without post heat treatment. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 69, 19-29.	3.1	115
83	Improved high-temperature hardness and wear resistance of Inconel 625 coatings fabricated by laser cladding. <i>Journal of Materials Processing Technology</i> , 2017, 243, 82-91.	6.3	145
84	Phase constituents and growth mechanism of laser in situ synthesized WC reinforced composite coating with Wâ€“Câ€“Ni system. <i>Journal of Materials Research</i> , 2017, 32, 557-565.	2.6	10
85	A novel approach of in-situ synthesis of WC particulate-reinforced Fe-30Ni ceramic metal coating. <i>Surface and Coatings Technology</i> , 2017, 328, 256-265.	4.8	21
86	The characteristics and reduction of porosity in high-power laser welds of thick AISI 304 plate. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 3517-3530.	3.0	9
87	Effect of Isothermal Temperature on Growth Behavior of Nanostructured Bainite in Laser Cladded Coatings. <i>Materials</i> , 2017, 10, 800.	2.9	4
88	Layered Microstructure Distribution and Forming Mechanism of Laser-Processed Ni-Fe-B-Si-Nb-C Amorphous Composite Coatings. <i>Materials Transactions</i> , 2016, 57, 1807-1810.	1.2	2
89	Role of stress in the high cycle fatigue behavior of advanced 9Cr/CrMoV dissimilarly welded joint. <i>Journal of Materials Research</i> , 2016, 31, 292-301.	2.6	11
90	Evaluation of Mgâ€“Ndâ€“Znâ€“Zr magnesium alloy as bipolar plate in simulated polymer electrolyte membrane fuel cell environments. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14191-14206.	7.1	3

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91	Enhancement of hardness and thermal stability of W-doped Ni3Al thin films at elevated temperature. <i>Materials and Design</i> , 2016, 111, 575-583.	7.0	13
92	Studies on the surface morphology and hydrophobic property of NiTi thin films under in situ and post annealing various temperatures. <i>Materials Letters</i> , 2016, 183, 244-247.	2.6	4
93	Laser powder deposition of carbon nanotube reinforced nickel-based superalloy Inconel 718. <i>Carbon</i> , 2016, 107, 361-370.	10.3	54
94	Microstructure and Strengthening Mechanism of Fiber Laser-Welded High-Strength Mg-Gd-Y-Zr Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 4506-4513.	2.5	5
95	Microstructure and mechanical properties of sputter deposited Ni/Ni3Al multilayer films at elevated temperature. <i>Applied Surface Science</i> , 2016, 378, 408-417.	6.1	15
96	Investigation of dendritic growth and liquation cracking in laser melting deposited Inconel 718 at different laser input angles. <i>Materials and Design</i> , 2016, 105, 133-141.	7.0	52
97	Investigation of multi-coating process treated magnesium alloy as bipolar plate in polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 6020-6028.	7.1	18
98	Characterization of heat affected zone liquation cracking in laser additive manufacturing of Inconel 718. <i>Materials and Design</i> , 2016, 90, 586-594.	7.0	205
99	Effect of bevel angle on microstructure and mechanical property of Al/steel butt joint using laser welding-brazing method. <i>Materials and Design</i> , 2016, 90, 468-477.	7.0	52
100	Microstructure correlation and fatigue crack growth behavior in dissimilar 9Cr/CrMoV welded joint. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 651, 1018-1030.	5.6	35
101	Fiber laser butt joining of aluminum to steel using welding-brazing method. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 2639-2650.	3.0	33
102	Self-passivating carbon film as bipolar plate protective coating in polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5783-5792.	7.1	28
103	Dendritic microstructure and hot cracking of laser additive manufactured Inconel 718 under improved base cooling. <i>Journal of Alloys and Compounds</i> , 2016, 670, 312-321.	5.5	206
104	Liquid film migration in laser welded joint of Inconel 617. <i>Journal of Materials Research</i> , 2015, 30, 2340-2347.	2.6	0
105	Effect of chemical segregation on nanobainitic transformation in laser clad coatings. <i>Materials and Design</i> , 2015, 88, 781-789.	7.0	6
106	Characterization of carbon ion implantation induced graded microstructure and phase transformation in stainless steel. <i>Materials Characterization</i> , 2015, 106, 11-19.	4.4	21
107	Effect of Al2Gd on microstructure and properties of laser clad Mg-Al-Gd coatings. <i>Applied Surface Science</i> , 2015, 330, 393-404.	6.1	12
108	Corrosion behavior of carbon film coated magnesium alloy with electroless plating nickel interlayer. <i>Journal of Materials Processing Technology</i> , 2015, 219, 42-47.	6.3	18

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109	Liquation cracking in fiber laser welded joints of inconel 617. <i>Journal of Materials Processing Technology</i> , 2015, 226, 214-220.	6.3	48
110	Formation and influence mechanism of keyhole-induced porosity in deep-penetration laser welding based on 3D transient modeling. <i>International Journal of Heat and Mass Transfer</i> , 2015, 90, 1143-1152.	4.8	92
111	Investigation on the effects of shielding gas on porosity in fiber laser welding of T-joint steels. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 1881-1888.	3.0	21
112	A comparative study on fiber laser and CO2 laser welding of Inconel 617. <i>Materials & Design</i> , 2015, 76, 207-214.	5.1	53
113	Effect of Cu Nanoparticles on the Tribological Performance of Attapulgite Base Grease. <i>Tribology Transactions</i> , 2015, 58, 1031-1038.	2.0	27
114	Effects of isothermal heat treatment on nanostructured bainite morphology and microstructures in laser clad coatings. <i>Applied Surface Science</i> , 2015, 357, 309-316.	6.1	15
115	Preparation, characterization and wear behavior of carbon coated magnesium alloy with electroless plating nickel interlayer. <i>Applied Surface Science</i> , 2015, 327, 100-106.	6.1	21
116	Tribological behaviors and wear mechanisms of ultrafine magnesium aluminum silicate powders as lubricant additive. <i>Tribology International</i> , 2015, 81, 199-208.	5.9	48
117	Microstructure and Toughness of Simulated Heat-Affected Zone of Laser Welded Joint for 960MPa Grade High Strength Steel. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3640-3648.	2.5	5
118	Tribological Performance of Attapulgite Nano-fiber/Spherical Nano-Ni as Lubricant Additive. <i>Tribology Letters</i> , 2014, 56, 531-541.	2.6	18
119	Effect of the remelting scanning speed on the amorphous forming ability of Ni-based alloy using laser cladding plus a laser remelting process. <i>Surface and Coatings Technology</i> , 2014, 259, 725-731.	4.8	54
120	The influence of various factors on the geometric profile of laser lap welded T-joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 74, 1625-1636.	3.0	15
121	Corrosion resistance and electrical properties of carbon/chromium-titanium nitride multilayer coatings on stainless steel. <i>Journal of Power Sources</i> , 2014, 249, 299-305.	7.8	36
122	Microstructure and Softening of Laser-Welded 960MPa Grade High Strength Steel Joints. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 538-544.	2.5	17
123	Porosity formation mechanism and its prevention in laser lap welding for T-joints. <i>Journal of Materials Processing Technology</i> , 2014, 214, 1658-1664.	6.3	50
124	Investigation of single-layer and multilayer coatings for aluminum bipolar plate in polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8421-8430.	7.1	28
125	Investigation of C/Al-Cr-N multilayer coatings for stainless steel bipolar plate in polymer electrolyte membrane fuel cells. <i>Surface and Coatings Technology</i> , 2014, 258, 1068-1074.	4.8	14
126	Microstructure and wear performance of high volume fraction carbide M7C3 reinforced Fe-based composite coating fabricated by plasma transferred arc welding. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 1028-1035.	1.0	8

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127	Modeling analysis of laser cladding of a nickel-based superalloy. <i>Surface and Coatings Technology</i> , 2014, 258, 1048-1059.	4.8	62
128	Numerical modeling of microstructure evolution during laser additive manufacturing of a nickel-based superalloy. <i>Acta Materialia</i> , 2014, 77, 85-95.	7.9	307
129	A Comparative Study of High-Power Diode Laser and CO ₂ Laser Surface Hardening of AISI 1045 Steel. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3085-3091.	2.5	62
130	Effects of rod carbide size, content, loading and sliding distance on the friction and wear behaviors of (Cr,Fe) ₇ C ₃ -reinforced In-Fe based composite coating produced via PTA welding process. <i>Surface and Coatings Technology</i> , 2014, 248, 9-22.	4.8	40
131	Microstructure evolution of Fe-based nanostructured bainite coating by laser cladding. <i>Materials & Design</i> , 2014, 63, 100-108.	5.1	34
132	Cooling Curve Analysis of Heat Treating Oils and Correlation With Hardness and Microstructure of a Low Carbon Steel. <i>Materials Performance and Characterization</i> , 2014, 3, 427-445.	0.3	3
133	Effect of gap on plasma and molten pool dynamics during laser lap welding for T-joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 69, 1105-1112.	3.0	21
134	Effect of Heat Treatment on Niobium Segregation of Laser-Cladded IN718 Alloy Coating. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 708-716.	2.2	72
135	Effect of microstructure of TiN film on properties as bipolar plate coatings in polymer electrolyte membrane fuel cell prepared by inductively coupled plasma assisted magnetron sputtering. <i>Thin Solid Films</i> , 2013, 544, 224-229.	1.8	13
136	Carbide and nitride precipitation during laser cladding of Inconel 718 alloy coatings. <i>Optics and Laser Technology</i> , 2013, 52, 30-36.	4.6	43
137	Effect of Cooling Rate on the Microstructure of Laser-Remelted INCONEL 718 Coating. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 5513-5521.	2.2	62
138	C/CrN multilayer coating for polymer electrolyte membrane fuel cell metallic bipolar plates. <i>Journal of Power Sources</i> , 2013, 222, 351-358.	7.8	54
139	Effect of Precipitation on the Microhardness Distribution of Diode Laser Epitaxially Deposited IN718 Alloy Coating. <i>Journal of Materials Science and Technology</i> , 2013, 29, 349-352.	10.7	26
140	Properties of carbon film deposited on stainless steel by close field unbalanced magnetron sputter ion plating. <i>Thin Solid Films</i> , 2013, 531, 320-327.	1.8	12
141	Structure and corrosion resistance properties of Ni-Fe-B-Si-Nb amorphous composite coatings fabricated by laser processing. <i>Journal of Alloys and Compounds</i> , 2013, 580, 327-331.	5.5	58
142	Effects of Heat Input on Microstructure and Mechanical Properties of Laser-Welded Mg-Rare Earth Alloy. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 64-70.	2.5	5
143	Analysis of nucleation of carbide (Cr, Fe) ₇ C ₃ in the Cr ₃ C ₂ /Fe-CrNiBSi composite coating. <i>Surface and Coatings Technology</i> , 2013, 228, 41-47.	4.8	16
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147	Amorphous structure evolution of high power diode laser clad Fe-Co-B-Si-Nb coatings. <i>Applied Surface Science</i> , 2012, 261, 896-901.	6.1	31
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