

Changsheng Liu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The evolution of bainite and mechanical properties of direct laser deposition 12CrNi2 alloy steel at different laser power. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 150-161.	5.6	74
2	Effect of laser energy density on defects behavior of direct laser depositing 24CrNiMo alloy steel. <i>Optics and Laser Technology</i> , 2019, 111, 541-553.	4.6	69
3	Selective laser melting of 24CrNiMo steel for brake disc: Fabrication efficiency, microstructure evolution, and properties. <i>Optics and Laser Technology</i> , 2018, 107, 99-109.	4.6	60
4	Atomization simulation and preparation of 24CrNiMoY alloy steel powder using VIGA technology at high gas pressure. <i>Powder Technology</i> , 2020, 367, 724-739.	4.2	50
5	Effect of laser incident energy on microstructures and mechanical properties of 12CrNi2Y alloy steel by direct laser deposition. <i>Journal of Materials Science and Technology</i> , 2019, 35, 395-402.	10.7	43
6	Effect of atomization pressure on the breakup of TA15 titanium alloy powder prepared by EIGA method for laser 3D printing. <i>Vacuum</i> , 2017, 143, 185-194.	3.5	40
7	Effects of LaB6 on microstructure evolution and properties of in-situ synthetic TiC+TiBx reinforced titanium matrix composite coatings prepared by laser cladding. <i>Surface and Coatings Technology</i> , 2020, 403, 126409.	4.8	31
8	Microstructure and properties of 24CrNiMoY alloy steel prepared by direct laser deposited under different preheating temperatures. <i>Materials Characterization</i> , 2019, 158, 109931.	4.4	26
9	The effect of laser scanning speed on microstructural evolution during direct laser deposition 12CrNi2 alloy steel. <i>Optics and Laser Technology</i> , 2020, 125, 106041.	4.6	25
10	Thermal behavior and grain evolution of 24CrNiMoY alloy steel prepared by pre-laid laser cladding technology. <i>Optics and Laser Technology</i> , 2019, 119, 105613.	4.6	23
11	Microstructure evolution of 24CrNiMoY alloy steel parts by high power selective laser melting. <i>Journal of Manufacturing Processes</i> , 2019, 44, 28-37.	5.9	21
12	The Effect of Specific Energy Density on Microstructure and Corrosion Resistance of CoCrMo Alloy Fabricated by Laser Metal Deposition. <i>Materials</i> , 2019, 12, 1321.	2.9	21
13	Microstructure and mechanical properties of short-carbon-fiber/Ti3SiC2 composites. <i>Journal of Advanced Ceramics</i> , 2020, 9, 716-725.	17.4	19
14	Effect of laser energy volume density on wear resistance and corrosion resistance of 30Cr15MoY alloy steel coating prepared by laser direct metal deposition. <i>Surface and Coatings Technology</i> , 2021, 421, 127382.	4.8	19
15	Titanium Extraction from Titania-Bearing Blast Furnace Slag: A Review. <i>Jom</i> , 2022, 74, 654-667.	1.9	18
16	Microstructure and performances of graphite scattered Cr3C2-NiCr composites prepared by laser processing. <i>Materials Letters</i> , 2013, 93, 304-307.	2.6	17
17	The effect of Si and B on formability and wear resistance of preset-powder laser cladding W10V5Co4 alloy steel coating. <i>Optics and Laser Technology</i> , 2021, 134, 106590.	4.6	16
18	Microstructural Evolution and Properties of 24CrNiMoY Alloy Steel Fabricated by Selective Laser Melting. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 5521-5532.	2.5	15

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19	Covalent modification of graphene oxide by 4,4'-methylenebis(phenyl isocyanate) to enhance corrosion resistance of polystyrene coating. <i>Colloid and Polymer Science</i> , 2019, 297, 839-848.	2.1	15
20	A new 50Cr6Ni2Y alloy steel prepared by Direct laser Deposition: Its design, microstructure and properties. <i>Optics and Laser Technology</i> , 2020, 126, 106080.	4.6	12
21	Interfacial reactions and mechanical properties of SiC fiber reinforced Ti ₃ SiC ₂ and Ti ₃ (SiAl) ₂ C ₂ composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 827, 142069.	5.6	11
22	Effect of Nano-Y ₂ O ₃ on Microstructure and Crack Formation in Laser Direct-Deposited In Situ Particle-Reinforced Fe-Based Coatings. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1154-1167.	2.5	10
23	Layered 50Cr6Ni2/Stellite X-40 Multi-material Fabricated by Direct Laser Deposition: Characterization and Properties. <i>Metals and Materials International</i> , 2021, 27, 40-49.	3.4	10
24	Microstructure evolution and properties of direct laser deposited 24CrNiMoY alloy steel assisted by non-contact ultrasonic treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 811, 141088.	5.6	10
25	Equilibrium Phase Relations of the CaO-SiO ₂ -Ti ₂ O ₃ System at 1400 °C and a p(O ₂) of 10 ⁻¹⁶ atm. <i>Jom</i> , 2022, 74, 668-675.	1.9	10
26	Real-Time Monitoring of Chemical Composition in Nickel-Based Laser Cladding Layer by Emission Spectroscopy Analysis. <i>Materials</i> , 2019, 12, 2637.	2.9	9
27	Preparation and printability of high performance 15Cr13MoY alloy steel powder for direct laser deposition. <i>Powder Metallurgy</i> , 2019, 62, 218-228.	1.7	9
28	Formation and Elimination Mechanism of Lack of Fusion and Cracks in Direct Laser Deposition 24CrNiMoY Alloy Steel. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 6439-6454.	2.5	9
29	Preparation of TA15 powder reinforced 45CrNiMoY alloy steel with high mechanical property by pre-laid laser cladding technology. <i>Materials Characterization</i> , 2020, 160, 110097.	4.4	8
30	Effects of carbon fibers on the microstructure and properties of laser cladding 24CrNiMoY alloy steel. <i>Journal of Manufacturing Processes</i> , 2021, 62, 337-347.	5.9	8
31	Study of surface topography detection and analysis methods of direct laser deposition 24CrNiMo alloy steel. <i>Optics and Laser Technology</i> , 2021, 135, 106661.	4.6	7
32	Impact of Atomization Pressure on the Particle Size of Nickel-Based Superalloy Powders by Numerical Simulation. <i>Materials</i> , 2022, 15, 3020.	2.9	5
33	Characteristics and printability of K417G nickel-base alloy powder prepared by VIGA method. <i>Powder Metallurgy</i> , 2019, 62, 30-37.	1.7	4
34	Evolution mechanism and precipitation kinetics of carbides in 50Cr6Ni2Y alloy steel by direct laser deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141535.	5.6	4
35	Equilibrium Phase Relations of a SiO ₂ -Al ₂ O ₃ -FeO System with 10 wt % CaO Addition for the Production of Continuous Basalt Fibers. <i>ACS Omega</i> , 2021, 6, 21465-21471.	3.5	4
36	Heterostructured Bi ₂ O ₃ @rGO Anode for Electrochemical Sodium Storage. <i>Materials</i> , 2022, 15, 2787.	2.9	2

#	ARTICLE	IF	CITATIONS
37	Microstructure and properties of high power-SLM 24CrNiMoY alloy steel at different laser energy density and tempering temperature. Powder Metallurgy, 2021, 64, 23-34.	1.7	1
38	Effect of Hot Isostatic Pressing on Microstructure of 24CrNiMo Steel Produced by Selective Laser Melting. Mechanisms and Machine Science, 2021, , 467-476.	0.5	0
39	Equilibrium Phase Relations for a SiO ₂ -Al ₂ O ₃ -FeO _x System at 1300 °C and 1400 °C in Air. Metals, 2022, 12, 926.	2.3	0