

Zhang Hui

List of Publications by Year in descending order

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31
papers

1,498
citations

430754

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docs citations

31
times ranked

1045
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of FeCoNiCrCu high-entropy alloy coating by laser cladding. <i>Materials & Design</i> , 2011, 32, 1910-1915.	5.1	241
2	Microstructure and properties of 6FeNiCoSiCrAlTi high-entropy alloy coating prepared by laser cladding. <i>Applied Surface Science</i> , 2011, 257, 2259-2263.	3.1	169
3	Corrosion resistance enhancement of CoCrFeMnNi high-entropy alloy fabricated by additive manufacturing. <i>Corrosion Science</i> , 2020, 177, 108954.	3.0	130
4	Enhanced hardness and fracture toughness of the laser-solidified FeCoNiCrCuTiMoAlSiB0.5 high-entropy alloy by martensite strengthening. <i>Scripta Materialia</i> , 2013, 69, 342-345.	2.6	126
5	Thermally stable laser clad CoCrCuFeNi high-entropy alloy coating with low stacking fault energy. <i>Journal of Alloys and Compounds</i> , 2014, 600, 210-214.	2.8	119
6	Microstructure and properties of AlCrFeCuNi _x (0.6 ≤ x ≤ 1.4) high-entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 534, 228-233.	2.6	90
7	Formation of core-shell structure in high entropy alloy coating by laser cladding. <i>Applied Surface Science</i> , 2016, 363, 543-547.	3.1	70
8	Effects of Annealing on the Microstructure and Properties of 6FeNiCoCrAlTiSi High-Entropy Alloy Coating Prepared by Laser Cladding. <i>Journal of Thermal Spray Technology</i> , 2011, 20, 1049-1055.	1.6	66
9	Slurry Erosion Resistance of Laser Clad NiCoCrFeAl ₃ High-Entropy Alloy Coatings. <i>Tribology Transactions</i> , 2015, 58, 1119-1123.	1.1	47
10	Microstructure and nanoindentation creep behavior of CoCrFeMnNi high-entropy alloy fabricated by selective laser melting. <i>Additive Manufacturing</i> , 2019, 28, 766-771.	1.7	47
11	Microstructure and property of AlTiCrFeNiCu high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5641-5645.	2.8	45
12	Phase selection, microstructure and properties of laser rapidly solidified FeCoNiCrAl ₂ Si coating. <i>Intermetallics</i> , 2011, 19, 1130-1135.	1.8	43
13	Application Prospects and Microstructural Features in Laser-Induced Rapidly Solidified High-Entropy Alloys. <i>Jom</i> , 2014, 66, 2057-2066.	0.9	39
14	Microstructure and age characterization of Cu ₁₅ Ni ₈ Sn alloy coatings by laser cladding. <i>Applied Surface Science</i> , 2010, 256, 5837-5842.	3.1	36
15	Influence of dynamic strain aging pre-treatment on the low-cycle fatigue behavior of modified 9Cr ₁ Mo steel. <i>International Journal of Fatigue</i> , 2013, 47, 83-89.	2.8	34
16	Synthesis and Characterization of NiCoFeCrAl ₃ High Entropy Alloy Coating by Laser Cladding. <i>Advanced Materials Research</i> , 0, 97-101, 1408-1411.	0.3	26
17	Effects of Different Levels of Boron on Microstructure and Hardness of CoCrFeNiAl _x Cu _{0.7} Si _{0.1} B _y High-Entropy Alloy Coatings by Laser Cladding. <i>Coatings</i> , 2017, 7, 7.	1.2	25
18	Novel laser rapidly solidified medium-entropy high speed steel coatings with enhanced hot wear resistance. <i>Journal of Alloys and Compounds</i> , 2019, 772, 719-727.	2.8	24

#	ARTICLE	IF	CITATIONS
19	Effect of Heat Treatment on Borides Precipitation and Mechanical Properties of CoCrFeNiAl _{1.8} Cu _{0.7} B _{0.3} Si _{0.1} High-Entropy Alloy Prepared by Arc-Melting and Laser-Cladding. <i>Jom</i> , 2017, 69, 2078-2083.	0.9	21
20	Effect of High Configuration Entropy and Rare Earth Addition on Boride Precipitation and Mechanical Properties of Multi-principal-Element Alloys. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 3750-3755.	1.2	18
21	Liquid Phase Separation and the Aging Effect on Mechanical and Electrical Properties of Laser Rapidly Solidified Cu _{100-x} Cr _x Alloys. <i>Metals</i> , 2015, 5, 2119-2127.	1.0	16
22	Secondary hardening in laser rapidly solidified Fe ₆₈ (MoWCrVCuNiAlCu) ₃₂ medium-entropy high-speed steel coatings. <i>Materials and Design</i> , 2018, 159, 224-231.	3.3	16
23	Internal friction studies on dynamic strain aging in P91 ferritic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 676, 361-365.	2.6	10
24	Novel high-entropy and medium-entropy stainless steels with enhanced mechanical and anti-corrosion properties. <i>Materials Science and Technology</i> , 2018, 34, 572-579.	0.8	9
25	The alloying effects of Cr on in-situ phase evolution and wear resistance of nickel composite coatings fabricated by wide-band laser deposition. <i>Surface and Coatings Technology</i> , 2020, 397, 126019.	2.2	9
26	Uniformly Dispersed Carbide Reinforcements in the Medium-Entropy High-Speed Steel Coatings by Wide-Band Laser Cladding. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1145-1150.	1.5	8
27	The Pseudo-Eutectic Microstructure and Enhanced Properties in Laser-Cladded Hypereutectic Ti-20%Si Coatings. <i>Metals</i> , 2017, 7, 33.	1.0	6
28	Fabrication Routes. , 2016, , 151-179.		5
29	Effect of Fe content on type and distribution of carbides in medium-entropy high-speed steels. <i>Tungsten</i> , 2023, 5, 189-197.	2.0	2
30	Analytic Modeling of Rolling Force during the Hot Rod Rolling of Multiple Alloying Steels. <i>Advanced Materials Research</i> , 0, 97-101, 2975-2978.	0.3	1
31	Ageing Hardening Mechanism and Corrosion Resistance in the Fe ₆₅ Cr ₁₃ Cu ₃ (CoMnMoNiAlTi) ₁₉ Medium-Entropy Stainless Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1601.	1.5	0