

Zhiqiang Cao

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45
papers

1,972
citations

20
h-index

44
g-index

46
ext. papers

2,583
ext. citations

4.9
avg, IF

4.93
L-index

#	Paper	IF	Citations
45	A promising new class of high-temperature alloys: eutectic high-entropy alloys. <i>Scientific Reports</i> , 2014 , 4, 6200	4.9	604
44	Promising properties and future trend of eutectic high entropy alloys. <i>Scripta Materialia</i> , 2020 , 187, 202-209	3.69	126
43	A new strategy to design eutectic high-entropy alloys using mixing enthalpy. <i>Intermetallics</i> , 2017 , 91, 124-128	3.5	124
42	Effect of Niobium on Microstructure and Properties of the CoCrFeNb _x Ni High Entropy Alloys. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 712-717	9.1	108
41	A new strategy to design eutectic high-entropy alloys using simple mixture method. <i>Materials and Design</i> , 2018 , 142, 101-105	8.1	95
40	Effect of Eu addition on the microstructures and mechanical properties of A356 aluminum alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 896-906	5.7	86
39	Annealing effects on the microstructure and properties of bulk high-entropy CoCrFeNiTi _{0.5} alloy casting ingot. <i>Intermetallics</i> , 2014 , 44, 37-43	3.5	86
38	Evolution of dendrite morphology of a binary alloy under an applied electric current: an in situ observation. <i>Physical Review E</i> , 2010 , 81, 042601	2.4	68
37	Effects of Nb addition on structural evolution and properties of the CoFeNi ₂ V _{0.5} high-entropy alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 291-297	2.6	67
36	Microstructure and Mechanical Properties of a CoFeNi ₂ V _{0.5} Nb _{0.75} Eutectic High Entropy Alloy in As-cast and Heat-treated Conditions. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 245-250	9.1	66
35	Phase Evolution and Properties of Al ₂ CrFeNiMo _x High-Entropy Alloys Coatings by Laser Cladding. <i>Journal of Thermal Spray Technology</i> , 2015 , 24, 1333-1340	2.5	54
34	The microstructure and property of AlBi alloy and AlMn alloy bimetal prepared by continuous casting. <i>Materials Letters</i> , 2012 , 67, 21-23	3.3	45
33	Mechanical Properties Improvement of AlCrFeNi ₂ Ti _{0.5} High Entropy Alloy through Annealing Design and its Relationship with its Particle-reinforced Microstructures. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 397-402	9.1	43
32	Microstructure Evolution and Wear Behavior of the Laser Cladded CoFeNi ₂ V _{0.5} Nb _{0.75} and CoFeNi ₂ V _{0.5} Nb High-Entropy Alloy Coatings. <i>Journal of Thermal Spray Technology</i> , 2016 , 25, 806-814	2.5	42
31	A promising structure for fabricating high strength and high electrical conductivity copper alloys. <i>Scientific Reports</i> , 2016 , 6, 20799	4.9	39
30	Effects of Tungsten on Microstructure and Mechanical Properties of CrFeNiV _{0.5} W _x and CrFeNi ₂ V _{0.5} W _x High-Entropy Alloys. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 4594-4600	1.6	33
29	Microstructure and tribological properties of AlCrFe ₂ Ni ₂ W _{0.2} Mo _{0.75} high-entropy alloy coating prepared by laser cladding in seawater, NaCl solution and deionized water. <i>Surface and Coatings Technology</i> , 2020 , 400, 126214	4.4	33

28	Application of synchrotron radiation X-ray computed tomography to investigate the agglomerating behavior of TiB ₂ particles in aluminum. <i>Journal of Alloys and Compounds</i> , 2015 , 622, 831-836	5.7	23
27	Nanoparticle-Decorated Ultrathin LaO Nanosheets as an Efficient Electrocatalysis for Oxygen Evolution Reactions. <i>Nano-Micro Letters</i> , 2020 , 12, 49	19.5	23
26	Synthesis and Characterization of AlCoCrFeNiNbx High-Entropy Alloy Coatings by Laser Cladding. <i>Crystals</i> , 2019 , 9, 56	2.3	22
25	Real time investigation of the grain refinement dynamics in zinc alloy by synchrotron microradiography. <i>Journal of Alloys and Compounds</i> , 2015 , 630, 60-67	5.7	17
24	In situ observation on the solidification of Sn-10Cu hyperperitectic alloy under direct current field by synchrotron microradiography. <i>Journal of Alloys and Compounds</i> , 2017 , 721, 126-133	5.7	16
23	Microstructures and Wear Resistance of AlCrFeNi ₂ W _{0.2} Nbx High-Entropy Alloy Coatings Prepared by Laser Cladding. <i>Journal of Thermal Spray Technology</i> , 2019 , 28, 1318-1329	2.5	16
22	Effect of strontium addition on silicon phase and mechanical properties of Zn ₇₀ Al ₁₃ Si alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 622, 871-879	5.7	13
21	The interaction between Eu and P in high purity Al-7Si alloys. <i>Materials Characterization</i> , 2016 , 120, 129-142	3.9	13
20	Effects of Ta Addition on the Microstructure and Mechanical Properties of CoCu _{0.5} FeNi High-Entropy Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 7642-7648	1.6	13
19	Modification of the silicon phase and mechanical properties in Al-40Zn-6Si alloy with Eu addition. <i>Materials and Design</i> , 2020 , 186, 108268	8.1	13
18	Microstructures and Wear Resistance of CoCrFeNi ₂ V _{0.5} Tix High-Entropy Alloy Coatings Prepared by Laser Cladding. <i>Crystals</i> , 2020 , 10, 352	2.3	12
17	Microstructure and Mechanical Properties Investigation of the CoCrFeNiNbx High Entropy Alloy Coatings. <i>Crystals</i> , 2018 , 8, 409	2.3	12
16	Real time observation on the solidification of strontium-modified zinc/aluminum/silicon alloys by synchrotron microradiography. <i>Journal of Alloys and Compounds</i> , 2014 , 608, 343-351	5.7	9
15	Effect of Eu on the silicon phase in Al-40Zn-5Si alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 722, 116-130	3.9	8
14	Anomalous microstructure and tribological evaluation of AlCrFeNiW _{0.2} Ti _{0.5} high-entropy alloy coating manufactured by laser cladding in seawater. <i>Journal of Materials Science and Technology</i> , 2021 , 85, 224-234	9.1	8
13	A promising new class of plasticine: Metallic plasticine. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 344-348	9.1	7
12	The Influence of Holding Time on the Microstructure Evolution of Mg ₉₀ Zn ₈ Gd ₂ Y Alloy during Semi-Solid Isothermal Heat Treatment. <i>Metals</i> , 2019 , 9, 420	2.3	4
11	Grain nucleation and growth behavior of (Cu, Ni) ₆ Sn ₅ in Sn ₉₀ Cu ₇ Ni alloy under pulse current: An in situ observation. <i>Materials Characterization</i> , 2019 , 158, 109969	3.9	4

- 10 A novel Co-free Al_{0.75}CrFeNi eutectic high entropy alloy with superior mechanical properties. *Journal of Alloys and Compounds*, **2022**, 902, 163814 5-7 4
- 9 Effects of Ni on the nucleation and growth behavior of Cu₆Sn₅ in Sn_{8.5}Cu alloy: An in situ observation. *Journal of Alloys and Compounds*, **2021**, 862, 158603 5-7 4
- 8 Different Influences of Rare Earth Eu Addition on Primary Si Refinement in Hypereutectic Al-Si Alloys with Varied Purity. *Materials*, **2019**, 12, 3-5 4
- 7 Microstructure and Wear Behavior of In Situ ZA27/TiB₂ Composites. *Metals*, **2020**, 10, 1663 2-3 3
- 6 Effect of Sr addition on the characteristics of as-cast and rolled 3003/4004 clad aluminum. *Journal of Alloys and Compounds*, **2016**, 678, 201-211 5-7 3
- 5 Microstructures and Mechanical Properties of Multi-component Al_xCrFe₂Ni₂Mo_{0.2} High-Entropy Alloys. *Acta Metallurgica Sinica (English Letters)*, **2020**, 33, 1135-1144 2-5 2
- 4 Synchrotron radiation micro-beam analysis of the effect of strontium on primary silicon in Zn₇Al₃Si alloy. *Journal of Alloys and Compounds*, **2018**, 749, 575-579 5-7
- 3 Real Time Observation of Interface Evolution in Al/Cu Bimetal by Synchrotron Radiation Imaging **2013**, 2593-2598
- 2 In Situ Visualization on Crystal Growth of Sn-Bi Alloy Under Electric Field **2013**, 2509-2514
- 1 Bidirectional pulsed current effect on the precipitation behavior of Cu₆Sn₅: An in situ observation. *Materials Today Communications*, **2021**, 29, 102825 2-5