

Zhiqiang Cao

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.

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 novel Co-free Al _{0.75} CrFeNi eutectic high entropy alloy with superior mechanical properties. <i>Journal of Alloys and Compounds</i> , 2022 , 902, 163814 | 5.7 | 4 |
| 44 | Bidirectional pulsed current effect on the precipitation behavior of Cu ₆ Sn ₅ : An in situ observation. <i>Materials Today Communications</i> , 2021 , 29, 102825 | 2.5 | |
| 43 | Effects of Ni on the nucleation and growth behavior of Cu ₆ Sn ₅ in Sn _{8.5} Cu alloy: An in situ observation. <i>Journal of Alloys and Compounds</i> , 2021 , 862, 158603 | 5.7 | 4 |
| 42 | 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 |
| 41 | Microstructures and Mechanical Properties of Multi-component Al _x CrFe ₂ Ni ₂ Mo _{0.2} High-Entropy Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 1135-1144 | 2.5 | 2 |
| 40 | Promising properties and future trend of eutectic high entropy alloys. <i>Scripta Materialia</i> , 2020 , 187, 202-209 | 3.09 | 126 |
| 39 | Microstructures and Wear Resistance of CoCrFeNi ₂ V _{0.5} Ti _x High-Entropy Alloy Coatings Prepared by Laser Cladding. <i>Crystals</i> , 2020 , 10, 352 | 2.3 | 12 |
| 38 | Nanoparticle-Decorated Ultrathin LaO Nanosheets as an Efficient Electrocatalysis for Oxygen Evolution Reactions. <i>Nano-Micro Letters</i> , 2020 , 12, 49 | 19.5 | 23 |
| 37 | 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 |
| 36 | Microstructure and Wear Behavior of In Situ ZA27/TiB ₂ Composites. <i>Metals</i> , 2020 , 10, 1663 | 2.3 | 3 |
| 35 | 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 |
| 34 | Synthesis and Characterization of AlCoCrFeNiNb _x High-Entropy Alloy Coatings by Laser Cladding. <i>Crystals</i> , 2019 , 9, 56 | 2.3 | 22 |
| 33 | The Influence of Holding Time on the Microstructure Evolution of Mg ₁₀ Zn _{8.8} Gd ₂ Y Alloy during Semi-Solid Isothermal Heat Treatment. <i>Metals</i> , 2019 , 9, 420 | 2.3 | 4 |
| 32 | Microstructures and Wear Resistance of AlCrFeNi ₂ W _{0.2} Nb _x High-Entropy Alloy Coatings Prepared by Laser Cladding. <i>Journal of Thermal Spray Technology</i> , 2019 , 28, 1318-1329 | 2.5 | 16 |
| 31 | Grain nucleation and growth behavior of (Cu, Ni) ₆ Sn ₅ in Sn ₁₀ Cu ₁ Ni alloy under pulse current: An in situ observation. <i>Materials Characterization</i> , 2019 , 158, 109969 | 3.9 | 4 |
| 30 | Different Influences of Rare Earth Eu Addition on Primary Si Refinement in Hypereutectic Al-Si Alloys with Varied Purity. <i>Materials</i> , 2019 , 12, | 3.5 | 4 |
| 29 | 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 |

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| 28 | Synchrotron radiation micro-beam analysis of the effect of strontium on primary silicon in Zn ₇ Al ₃ Si alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 749, 575-579 | 5.7 | |
| 27 | 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 |
| 26 | A promising new class of plasticine: Metallic plasticine. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 344-348 | 9.1 | 7 |
| 25 | Microstructure and Mechanical Properties Investigation of the CoCrFeNiNbx High Entropy Alloy Coatings. <i>Crystals</i> , 2018 , 8, 409 | 2.3 | 12 |
| 24 | 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 |
| 23 | 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 |
| 22 | A new strategy to design eutectic high-entropy alloys using mixing enthalpy. <i>Intermetallics</i> , 2017 , 91, 124-128 | 3.5 | 124 |
| 21 | Effect of Niobium on Microstructure and Properties of the CoCrFeNbxNi High Entropy Alloys. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 712-717 | 9.1 | 108 |
| 20 | 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 |
| 19 | The interaction between Eu and P in high purity Al-7Si alloys. <i>Materials Characterization</i> , 2016 , 120, 129-142 | 3.4 | 13 |
| 18 | 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 |
| 17 | A promising structure for fabricating high strength and high electrical conductivity copper alloys. <i>Scientific Reports</i> , 2016 , 6, 20799 | 4.9 | 39 |
| 16 | Effect of Sr addition on the characteristics of as-cast and rolled 3003/4004 clad aluminum. <i>Journal of Alloys and Compounds</i> , 2016 , 678, 201-211 | 5.7 | 3 |
| 15 | 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 |
| 14 | Effect of strontium addition on silicon phase and mechanical properties of Zn ₇ Al ₃ Si alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 622, 871-879 | 5.7 | 13 |
| 13 | 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 |
| 12 | 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 |
| 11 | 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 |

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| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | A promising new class of high-temperature alloys: eutectic high-entropy alloys. <i>Scientific Reports</i> , 2014 , 4, 6200 | 4.9 | 604 |
| 6 | 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 |
| 5 | Real time observation on the solidification of strontium-modified zincaluminumbillion alloys by synchrotron microradiography. <i>Journal of Alloys and Compounds</i> , 2014 , 608, 343-351 | 5.7 | 9 |
| 4 | Real Time Observation of Interface Evolution in Al/Cu Bimetal by Synchrotron Radiation Imaging 2013 , 2593-2598 | | |
| 3 | In Situ Visualization on Crystal Growth of Sn-Bi Alloy Under Electric Field 2013 , 2509-2514 | | |
| 2 | The microstructure and property of Al ₃ Si alloy and Al ₃ Mn alloy bimetal prepared by continuous casting. <i>Materials Letters</i> , 2012 , 67, 21-23 | 3.3 | 45 |
| 1 | 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 |