

Zhiqiang Fu

List of Publications by Year in descending order

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48
papers

2,458
citations

218677

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docs citations

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times ranked

1768
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#	ARTICLE	IF	CITATIONS
1	Microstructure and strengthening mechanisms in an FCC structured single-phase nanocrystalline Co ₂₅ Ni ₂₅ Fe ₂₅ Al _{7.5} Cu _{17.5} high-entropy alloy. <i>Acta Materialia</i> , 2016, 107, 59-71.	7.9	359
2	A high-entropy alloy with hierarchical nanoprecipitates and ultrahigh strength. <i>Science Advances</i> , 2018, 4, eaat8712.	10.3	247
3	Alloying behavior, microstructure and mechanical properties in a FeNiCrCo _{0.3} Al _{0.7} high entropy alloy. <i>Materials & Design</i> , 2013, 51, 854-860.	5.1	200
4	Microstructure and mechanical properties of twinned Al _{0.5} CrFeNiCo _{0.3} Co _{0.2} high entropy alloy processed by mechanical alloying and spark plasma sintering. <i>Materials & Design</i> , 2014, 54, 973-979.	5.1	171
5	Alloying behavior and deformation twinning in a CoNiFeCrAl _{0.6} Ti _{0.4} high entropy alloy processed by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2013, 553, 316-323.	5.5	112
6	Effects of Co and Ti on microstructure and mechanical behavior of Al _{0.75} FeNiCrCo high entropy alloy prepared by mechanical alloying and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 648, 217-224.	5.6	100
7	Effects of Co and sintering method on microstructure and mechanical behavior of a high-entropy Al _{0.6} NiFeCrCo alloy prepared by powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2015, 646, 175-182.	5.5	94
8	Influence of Ti addition and sintering method on microstructure and mechanical behavior of a medium-entropy Al _{0.6} CoNiFe alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 619, 137-145.	5.6	77
9	Bulk Cu-NbC nanocomposites with high strength and high electrical conductivity. <i>Journal of Alloys and Compounds</i> , 2018, 745, 55-62.	5.5	73
10	The influence of nanocrystalline CoNiFeAl _{0.4} Ti _{0.6} Cr _{0.5} high-entropy alloy particles addition on microstructure and mechanical properties of SiCp/7075Al composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 726, 126-136.	5.6	70
11	Engineering heterostructured grains to enhance strength in a single-phase high-entropy alloy with maintained ductility. <i>Materials Research Letters</i> , 2018, 6, 634-640.	8.7	70
12	How PBDEs Are Transformed into Dihydroxylated and Dioxin Metabolites Catalyzed by the Active Center of Cytochrome P450s: A DFT Study. <i>Environmental Science & Technology</i> , 2016, 50, 8155-8163.	10.0	61
13	Fcc nanostructured TiFeCoNi alloy with multi-scale grains and enhanced plasticity. <i>Scripta Materialia</i> , 2018, 143, 108-112.	5.2	55
14	Influence of phase decomposition on mechanical behavior of an equiatomic CoCuFeMnNi high entropy alloy. <i>Acta Materialia</i> , 2019, 181, 25-35.	7.9	52
15	Effect of ball milling on microstructure and mechanical properties of 6061Al matrix composites reinforced with high-entropy alloy particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 762, 138116.	5.6	51
16	Influence of synthesis method on microstructure and mechanical behavior of Co-free AlCrFeNi medium-entropy alloy. <i>Intermetallics</i> , 2019, 108, 45-54.	3.9	48
17	Microstructure and mechanical behavior of a novel Co ₂₀ Ni ₂₀ Fe ₂₀ Al ₂₀ Ti ₂₀ alloy fabricated by mechanical alloying and spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 644, 10-16.	5.6	46
18	Effect of Cr addition on the alloying behavior, microstructure and mechanical properties of twinned CoFeNiAl _{0.5} Ti _{0.5} alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 597, 204-211.	5.6	43

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19	Processing, microstructure and properties of Al _{0.6} CoNiFeTi _{0.4} high entropy alloy with nanoscale twins. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 565, 439-444.	5.6	38
20	Processing and mechanical properties of fine grained Al matrix composites reinforced with a uniform dispersion of nanocrystalline high-entropy alloy particles. <i>Journal of Alloys and Compounds</i> , 2019, 801, 473-477.	5.5	34
21	Fine tuning in-situ the mechanical and magnetic properties of FeCoNiAl _{0.25} Mn _{0.25} high-entropy alloy through cold rolling and annealing treatment. <i>Journal of Materials Processing Technology</i> , 2021, 289, 116945.	6.3	32
22	Reactive hot pressing and mechanical properties of TiAl ₃ /Ti ₃ AlC ₂ /Al ₂ O ₃ in situ composite. <i>Materials & Design</i> , 2013, 49, 929-934.	5.1	31
23	Enhanced thermal stability and ductility in a nanostructured Ni-based alloy. <i>Scripta Materialia</i> , 2017, 141, 1-5.	5.2	31
24	Exceptional combination of soft magnetic and mechanical properties in a heterostructured high-entropy composite. <i>Applied Materials Today</i> , 2019, 15, 590-598.	4.3	31
25	Transformation Pathways of Isomeric Perfluorooctanesulfonate Precursors Catalyzed by the Active Species of P450 Enzymes: <i>In Silico</i> Investigation. <i>Chemical Research in Toxicology</i> , 2015, 28, 482-489.	3.3	30
26	Microstructure, mechanical properties and machinability of particulate reinforced Al matrix composites: a comparative study between SiC particles and high-entropy alloy particles. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13646-13660.	5.8	30
27	The effects of Cr particles addition on the aging behavior and mechanical properties of SiCp/7075Al composites. <i>Materials Characterization</i> , 2018, 136, 264-271.	4.4	29
28	Influence of Ti addition on microstructure and mechanical behavior of a FCC-based Fe ₃₀ Ni ₃₀ Co ₃₀ Mn ₁₀ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 676, 492-500.	5.6	26
29	Numerical simulation of a stirring purifying technology for aluminum melt. <i>Journal of Materials Processing Technology</i> , 2018, 251, 330-342.	6.3	22
30	Influence of heat treatment on microstructure, mechanical behavior, and soft magnetic properties in an fcc-based Fe ₂₉ Co ₂₈ Ni ₂₉ Cu ₇ Ti ₇ high-entropy alloy. <i>Journal of Materials Research</i> , 2018, 33, 2214-2222.	2.6	22
31	Comparison of prediction methods for octanol-air partition coefficients of diverse organic compounds. <i>Chemosphere</i> , 2016, 148, 118-125.	8.2	21
32	Atom probe tomography study of an Fe ₂₅ Ni ₂₅ Co ₂₅ Ti ₁₅ Al ₁₀ high-entropy alloy fabricated by powder metallurgy. <i>Acta Materialia</i> , 2019, 179, 372-382.	7.9	19
33	In-situ formation of NbC in nanocrystalline Cu. <i>Journal of Alloys and Compounds</i> , 2017, 725, 334-341.	5.5	16
34	Development of polyparameter linear free energy relationship models for octanol-air partition coefficients of diverse chemicals. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 300-306.	3.5	15
35	Mapping Isoform Abundance and Interactome of the Endogenous TMPRSS2-ERG Fusion Protein by Orthogonal Immunoprecipitation-Mass Spectrometry Assays. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100075.	3.8	15
36	Microstructure and mechanical properties of an Fe-20Mn-11Al-1.8C-5Cr alloy prepared by powder metallurgy. <i>Vacuum</i> , 2017, 137, 183-190.	3.5	14

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37	Microstructure and mechanical behavior of spark plasma sintered TiB ₂ /Fe-15Cr-8Al-20Mn composites. <i>Journal of Alloys and Compounds</i> , 2018, 747, 886-894.	5.5	14
38	Tough TiB ₂ -Based Ceramic Composites Using Metallic Glass Powder as the Sintering Aid. <i>Advanced Engineering Materials</i> , 2016, 18, 1936-1943.	3.5	8
39	Oxidation reactivity of 1,2-bis(2,4,6-tribromophenoxy)ethane (BTBPE) by Compound I model of cytochrome P450s. <i>Journal of Environmental Sciences</i> , 2017, 62, 11-21.	6.1	8
40	Influence of Cr removal on the microstructure and mechanical behaviour of a high-entropy Al _{0.8} Ti _{0.2} CoNiFeCr alloy fabricated by powder metallurgy. <i>Powder Metallurgy</i> , 2018, 61, 106-114.	1.7	8
41	Microstructure and Mechanical Behavior of FeNiCoCr and FeNiCoCrMn High-Entropy Alloys Fabricated by Powder Metallurgy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 445-454.	2.9	8
42	Microstructure, strength and irradiation response of an ultra-fine grained FeNiCoCr multi-principal element alloy. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156796.	5.5	8
43	Phase transformations and mechanical behavior in a non-equiatomic Ti ₁₀ Fe ₃₀ Co ₃₀ Ni ₃₀ medium-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142429.	5.6	8
44	Coupled electron and proton transfer in the piperidine drug metabolism pathway by the active species of cytochromes P450. <i>Dalton Transactions</i> , 2020, 49, 11099-11107.	3.3	4
45	Quantum chemical simulations revealed the toxicokinetic mechanisms of organic phosphorus flame retardants catalyzed by P450 enzymes. <i>Journal of Environmental Science and Health, Part C: Environmental Carcinogenesis and Ecotoxicology Reviews</i> , 2018, 36, 272-291.	2.9	2
46	Corrosion behavior of a spark plasma sintered Fe-20Mn-11Al-1.8C-5Cr alloy in molten aluminum. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 563-571.	2.8	2
47	Effect of solution time on the microstructure, precipitation behavior and mechanical properties of (Co _{0.5} NiFeCrTi _{0.5} +SiC) _p /7075Al hybrid composite. <i>Materials Characterization</i> , 2020, 170, 110702.	4.4	2
48	Xenobiotic Metabolism by Cytochrome P450 Enzymes: Insights Gained from Molecular Simulations. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2019, , 337-364.	0.6	1