

Shuo Huang

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	1,058 citations	15 h-index	32 g-index
47 ext. papers	1,320 ext. citations	4.7 avg, IF	4.61 L-index

#	Paper	IF	Citations
45	Enhanced ion transport behaviors in composite polymer electrolyte: the case of a looser chain folding structure. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 3226-3232	13	1
44	High Entropy Alloys: Elastic Parameters and Trends 2022 , 427-434		0
43	Magnetocaloric properties of melt-spun MnFe-rich high-entropy alloy. <i>Applied Physics Letters</i> , 2021 , 119, 141909	3.4	2
42	Data-driven design of a new class of rare-earth free permanent magnets. <i>Acta Materialia</i> , 2021 , 212, 116913	8.4	1
41	Magnetic transformation of Mn from anti-ferromagnetism to ferromagnetism in FeCoNiZMn (Z = Si, Al, Sn, Ge) high entropy alloys. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 124-131	9.1	8
40	Mn Cr _{0.3} Fe _{0.5} Co _{0.2} Ni _{0.5} Al _{0.3} high entropy alloys for magnetocaloric refrigeration near room temperature. <i>Journal of Materials Science and Technology</i> , 2021 , 79, 15-20	9.1	14
39	Vibrational entropy-enhanced magnetocaloric effect in Mn-rich high-entropy alloys. <i>Applied Physics Letters</i> , 2021 , 119, 084102	3.4	3
38	Preparation of Surface Modified Ceria Nanoparticles as Abrasives for the Application of Chemical Mechanical Polishing (CMP). <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 024015	2	2
37	RE (La, Nd and Yb) doped CeO ₂ abrasive particles for chemical mechanical polishing of dielectric materials: Experimental and computational analysis. <i>Applied Surface Science</i> , 2020 , 506, 144668	6.7	15
36	Chemical ordering controlled thermo-elasticity of AlTiVCr ₁ -Nb high-entropy alloys. <i>Acta Materialia</i> , 2020 , 199, 53-62	8.4	5
35	Thermo-elastic properties of bcc Mn-rich high-entropy alloy. <i>Applied Physics Letters</i> , 2020 , 117, 164101	3.4	6
34	Pressure-induced magnetovolume effect in CoCrFeAl high-entropy alloy. <i>Communications Physics</i> , 2019 , 2,	5.4	8
33	The chemical ordering and elasticity in FeCoNiAl _{1-x} Ti _x high-entropy alloys. <i>Scripta Materialia</i> , 2019 , 168, 5-9	5.6	10
32	Plastic deformation transition in FeCrCoNiAl _x high-entropy alloys. <i>Materials Research Letters</i> , 2019 , 7, 439-445	7.4	9
31	Evolution of microstructure and hardness in Hf ₂₅ Nb ₂₅ Ti ₂₅ Zr ₂₅ high-entropy alloy during high-pressure torsion. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 318-328	5.7	22
30	The effect of cooling rate on the microstructure and mechanical properties of NiCoFeCrGa high-entropy alloy. <i>Journal of Materials Science</i> , 2019 , 54, 5074-5082	4.3	4
29	Mussel Inspired Modification for Aluminum Oxide/Silicone Elastomer Composites with Largely Improved Thermal Conductivity and Low Dielectric Constant. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 3255-3262	3.9	57

28	Critical stress for twinning nucleation in CrCoNi-based medium and high entropy alloys. <i>Acta Materialia</i> , 2018 , 149, 388-396	8.4	95
27	Evolution of the phase structure after different heat treatments in NiCoFeCrGa high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 743, 234-239	5.7	4
26	Mapping the magnetic transition temperatures for medium- and high-entropy alloys. <i>Intermetallics</i> , 2018 , 95, 80-84	3.5	50
25	Mechanical performance of FeCrCoMnAl high-entropy alloys from first-principle. <i>Materials Chemistry and Physics</i> , 2018 , 210, 37-42	4.4	10
24	Twinning in metastable high-entropy alloys. <i>Nature Communications</i> , 2018 , 9, 2381	17.4	108
23	Elasticity of high-entropy alloys from ab initio theory. <i>Journal of Materials Research</i> , 2018 , 33, 2938-2953	2.5	24
22	Phase-transition assisted mechanical behavior of TiZrHfTa high-entropy alloys. <i>Scientific Reports</i> , 2018 , 8, 12576	4.9	3
21	Strengthening Induced by MagnetoChemical Transition in Al-Doped Fe-Cr-Co-Ni High-Entropy Alloys. <i>Physical Review Applied</i> , 2018 , 10,	4.3	7
20	Enhancement of Dielectric Performance of Polymer Composites via Constructing BaTiO-Poly(dopamine)-Ag Nanoparticles through Mussel-Inspired Surface Functionalization. <i>ACS Omega</i> , 2018 , 3, 14087-14096	3.9	18
19	Thermal expansion in FeCrCoNiGa high-entropy alloy from theory and experiment. <i>Applied Physics Letters</i> , 2017 , 110, 241902	3.4	16
18	Thermal Expansion, Elastic and Magnetic Properties of FeCoNiCu-Based High-Entropy Alloys Using First-Principle Theory. <i>Jom</i> , 2017 , 69, 2107-2112	2.1	23
17	Effects of the sp element additions on the microstructure and mechanical properties of NiCoFeCr based high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 669, 14-19	5.3	18
16	Mechanism of magnetic transition in FeCrCoNi-based high entropy alloys. <i>Materials and Design</i> , 2016 , 103, 71-74	8.1	76
15	Temperature dependent stacking fault energy of FeCrCoNiMn high entropy alloy. <i>Scripta Materialia</i> , 2015 , 108, 44-47	5.6	309
14	Phase stability and magnetic behavior of FeCrCoNiGe high-entropy alloy. <i>Applied Physics Letters</i> , 2015 , 107, 251906	3.4	32
13	Site preference and alloying effect on elastic properties of ternary B2RuAl-based alloys. <i>Intermetallics</i> , 2014 , 51, 24-29	3.5	20
12	Alloying-related trends in thermal properties of ternary TiN-based nitrides. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450087	1.1	3
11	Order-disorder effects on the elastic properties of CuMPT6 (M=Cr and Co) compounds. <i>Solid State Communications</i> , 2014 , 184, 52-55	1.6	

10	A theoretical study of the elastic and thermal properties of ScRu compound under pressure. <i>Physica Scripta</i> , 2014 , 89, 065702	2.6	12
9	Structural and mechanical properties of FeAl compounds: An atomistic study by EAM simulation. <i>Intermetallics</i> , 2014 , 52, 86-91	3.5	32
8	Atomistic simulation of site preference, Curie temperature and lattice vibration of ZrT ₁₂ M _x (T=Fe, Co; M=Al, Ga). <i>Physica B: Condensed Matter</i> , 2013 , 427, 110-117	2.8	
7	Atomistic simulation for ordered Ho ₃ Fe ₂₉ Cr _x and disordered Ho ₂ Fe ₁₇ intermetallic compounds. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 522-526	5.7	1
6	The influence of 3d-metal alloy additions on the elastic and thermodynamic properties of CuPd ₃ . <i>Chinese Physics B</i> , 2013 , 22, 083401	1.2	2
5	Atomistic modeling of CoAl compounds. <i>Journal of Materials Research</i> , 2013 , 28, 2720-2727	2.5	3
4	ELASTIC AND VIBRATIONAL PROPERTIES OF ORDERED AND DISORDERED CuMnPt ₆ . <i>Modern Physics Letters B</i> , 2013 , 27, 1350195	1.6	1
3	EFFECTS ON MECHANICAL PROPERTIES OF REFRACTORY METAL DOPED Ti ₃ Al ALLOY. <i>International Journal of Modern Physics B</i> , 2013 , 27, 1350147	1.1	5
2	Chen's lattice inversion embedded-atom method for NiAl alloy. <i>Chinese Physics B</i> , 2012 , 21, 113401	1.2	12
1	Chen's Lattice Inversion Embedded-Atom Method for FCC Metal. <i>Advanced Materials Research</i> , 2011 , 320, 415-420	0.5	7