

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9175773/shuo-huang-publications-by-citations.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Temperature dependent stacking fault energy of FeCrCoNiMn high entropy alloy. <i>Scripta Materialia</i> , 2015 , 108, 44-47	5.6	309
44	Twinning in metastable high-entropy alloys. <i>Nature Communications</i> , 2018 , 9, 2381	17.4	108
43	Critical stress for twinning nucleation in CrCoNi-based medium and high entropy alloys. <i>Acta Materialia</i> , 2018 , 149, 388-396	8.4	95
42	Mechanism of magnetic transition in FeCrCoNi-based high entropy alloys. <i>Materials and Design</i> , 2016 , 103, 71-74	8.1	76
41	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
40	Mapping the magnetic transition temperatures for medium- and high-entropy alloys. <i>Intermetallics</i> , 2018 , 95, 80-84	3.5	50
39	Phase stability and magnetic behavior of FeCrCoNiGe high-entropy alloy. <i>Applied Physics Letters</i> , 2015 , 107, 251906	3.4	32
38	Structural and mechanical properties of FeAl compounds: An atomistic study by EAM simulation. <i>Intermetallics</i> , 2014 , 52, 86-91	3.5	32
37	Elasticity of high-entropy alloys from ab initio theory. <i>Journal of Materials Research</i> , 2018 , 33, 2938-2953	2.5	24
36	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
35	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
34	Site preference and alloying effect on elastic properties of ternary B ₂ RuAl-based alloys. <i>Intermetallics</i> , 2014 , 51, 24-29	3.5	20
33	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
32	Enhancement of Dielectric Performance of Polymer Composites via Constructing BaTiO ₃ -Poly(dopamine)-Ag Nanoparticles through Mussel-Inspired Surface Functionalization. <i>ACS Omega</i> , 2018 , 3, 14087-14096	3.9	18
31	Thermal expansion in FeCrCoNiGa high-entropy alloy from theory and experiment. <i>Applied Physics Letters</i> , 2017 , 110, 241902	3.4	16
30	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
29	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

28	A theoretical study of the elastic and thermal properties of ScRu compound under pressure. <i>Physica Scripta</i> , 2014 , 89, 065702	2.6	12
27	Chen's lattice inversion embedded-atom method for NiAl alloy. <i>Chinese Physics B</i> , 2012 , 21, 113401	1.2	12
26	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
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	Plastic deformation transition in FeCrCoNiAl _x high-entropy alloys. <i>Materials Research Letters</i> , 2019 , 7, 439-445	7.4	9
23	Pressure-induced magnetovolume effect in CoCrFeAl high-entropy alloy. <i>Communications Physics</i> , 2019 , 2,	5.4	8
22	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
21	Chen's Lattice Inversion Embedded-Atom Method for FCC Metal. <i>Advanced Materials Research</i> , 2011 , 320, 415-420	0.5	7
20	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
19	Thermo-elastic properties of bcc Mn-rich high-entropy alloy. <i>Applied Physics Letters</i> , 2020 , 117, 164101	3.4	6
18	EFFECTS ON MECHANICAL PROPERTIES OF REFRACTORY METAL DOPED Ti3Al ALLOY. <i>International Journal of Modern Physics B</i> , 2013 , 27, 1350147	1.1	5
17	Chemical ordering controlled thermo-elasticity of AlTiVCr1-Nb high-entropy alloys. <i>Acta Materialia</i> , 2020 , 199, 53-62	8.4	5
16	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
15	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
14	Phase-transition assisted mechanical behavior of TiZrHfTa high-entropy alloys. <i>Scientific Reports</i> , 2018 , 8, 12576	4.9	3
13	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
12	Atomistic modeling of CoAl compounds. <i>Journal of Materials Research</i> , 2013 , 28, 2720-2727	2.5	3
11	Vibrational entropy-enhanced magnetocaloric effect in Mn-rich high-entropy alloys. <i>Applied Physics Letters</i> , 2021 , 119, 084102	3.4	3

10	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
9	The influence of 3d-metal alloy additions on the elastic and thermodynamic properties of CuPd3. <i>Chinese Physics B</i> , 2013 , 22, 083401	1.2	2
8	Magnetocaloric properties of melt-spun MnFe-rich high-entropy alloy. <i>Applied Physics Letters</i> , 2021 , 119, 141909	3.4	2
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	ELASTIC AND VIBRATIONAL PROPERTIES OF ORDERED AND DISORDERED CuMnPt6. <i>Modern Physics Letters B</i> , 2013 , 27, 1350195	1.6	1
5	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
4	Data-driven design of a new class of rare-earth free permanent magnets. <i>Acta Materialia</i> , 2021 , 212, 116913	8.4	1
3	High Entropy Alloys: Elastic Parameters and Trends 2022 , 427-434		0
2	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	
1	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	