Mingqing Liao

List of Publications by Year
in descending order

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22	437	840776 11	752698 20
papers	citations	h-index	g-index

22	22	22	240
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Alloying effect on phase stability, elastic and thermodynamic properties of Nb-Ti-V-Zr high entropy alloy. Intermetallics, 2018, 101, 152-164.	3.9	104
2	Modeling of alloying effect on elastic properties in BCC Nb-Ti-V-Zr solid solution: From unary to quaternary. Computational Materials Science, 2020, 172, 109289.	3.0	48
3	Refined microstructure and enhanced mechanical properties of AlCrFe2Ni2 medium entropy alloy produced via laser remelting. Journal of Materials Science and Technology, 2022, 99, 18-27.	10.7	41
4	A novel FeCrNiAlTi-based high entropy alloy strengthened by refined grains. Journal of Alloys and Compounds, 2020, 823, 153729.	5.5	39
5	Ultra-high temperature ceramics melting temperature prediction via machine learning. Ceramics International, 2019, 45, 18551-18555.	4.8	35
6	Elastic3rd: A tool for calculating third-order elastic constants from first-principles calculations. Computer Physics Communications, 2021, 261, 107777.	7.5	22
7	Half-metallicity and magnetism of CoFeHfGe novel quaternary Heusler alloy in bulk form as well as (100) and (001) surfaces: An ab initio study. Journal of Physics and Chemistry of Solids, 2020, 136, 109190.	4.0	21
8	DFTTK: Density Functional Theory ToolKit for high-throughput lattice dynamics calculations. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2021, 75, 102355.	1.6	17
9	P2221-C8: A novel carbon allotrope denser than diamond. Scripta Materialia, 2022, 212, 114549.	5.2	15
10	The interface properties of defective graphene on aluminium: A first-principles calculation. Computational Materials Science, 2021, 188, 110157.	3.0	14
11	Effect of fabrication methods on microstructures, mechanical properties and strengthening mechanisms of Fe0.25CrNiAl medium-entropy alloy. Journal of Alloys and Compounds, 2021, 888, 161526.	5.5	14
12	Pressure and temperature dependence of second-order elastic constants from third-order elastic constants in TMC (TM=Nb, Ti, V, Zr). Ceramics International, 2021, 47, 27535-27544.	4.8	11
13	Effect of annealing on microstructure and mechanical properties of AlCrFe2Ni2 medium entropy alloy fabricated by laser powder bed fusion additive manufacturing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 839, 142868.	5.6	11
14	Modelling and prediction of thermal deformation behaviors in a pearlitic steel. Materials Today Communications, 2020, 25, 101134.	1.9	10
15	Revisiting the third-order elastic constants of diamond: The higher-order effect. Diamond and Related Materials, 2021, 117, 108490.	3.9	9
16	High thermal stability and oxidation behavior of FeCrNiAl-based medium-entropy alloys prepared by powder metallurgy. Journal of Alloys and Compounds, 2022, 918, 165562.	5.5	8
17	Parameters optimization design of quenching and partitioning for best combination between strength and ductility using orthogonal experimental design. Journal of Iron and Steel Research International, 2019, 26, 1088-1095.	2.8	7
18	Solution-Based Synthesis of Layered Two-Dimensional Oxides as Broadband Emitters. ACS Nano, 2020, 14, 15544-15551.	14.6	5

#	Article	IF	Citations
19	Quantum confined two-dimensional electron/hole gas switching by facet orientation of perovskite oxides. RSC Advances, 2018, 8, 20477-20482.	3.6	2
20	Giant Zeeman-type spin splitting of free electron/hole states on quasi-2D perovskite niobates: a theoretical prediction. Scientific Reports, 2020, 10, 3698.	3.3	2
21	Increased room temperature ferromagnetism in Co-doped tetrahedral perovskite niobates. Royal Society Open Science, 2021, 8, 210121.	2.4	2
22	Parameters prediction of hot-pressing sintering of high entropy alloys using numerical modeling and simulation. Procedia Manufacturing, 2019, 37, 529-536.	1.9	0