

Mingqing Liao

List of Publications by Year in descending order

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22
papers

437
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citing authors

#	ARTICLE	IF	CITATIONS
1	Refined microstructure and enhanced mechanical properties of AlCrFe ₂ Ni ₂ medium entropy alloy produced via laser remelting. <i>Journal of Materials Science and Technology</i> , 2022, 99, 18-27.	10.7	41
2	P2221-C8: A novel carbon allotrope denser than diamond. <i>Scripta Materialia</i> , 2022, 212, 114549.	5.2	15
3	Effect of annealing on microstructure and mechanical properties of AlCrFe ₂ Ni ₂ medium entropy alloy fabricated by laser powder bed fusion additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 839, 142868.	5.6	11
4	High thermal stability and oxidation behavior of FeCrNiAl-based medium-entropy alloys prepared by powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165562.	5.5	8
5	Elastic3rd: A tool for calculating third-order elastic constants from first-principles calculations. <i>Computer Physics Communications</i> , 2021, 261, 107777.	7.5	22
6	The interface properties of defective graphene on aluminium: A first-principles calculation. <i>Computational Materials Science</i> , 2021, 188, 110157.	3.0	14
7	Revisiting the third-order elastic constants of diamond: The higher-order effect. <i>Diamond and Related Materials</i> , 2021, 117, 108490.	3.9	9
8	Pressure and temperature dependence of second-order elastic constants from third-order elastic constants in TMC (TM=Nb, Ti, V, Zr). <i>Ceramics International</i> , 2021, 47, 27535-27544.	4.8	11
9	Effect of fabrication methods on microstructures, mechanical properties and strengthening mechanisms of Fe _{0.25} CrNiAl medium-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161526.	5.5	14
10	Increased room temperature ferromagnetism in Co-doped tetrahedral perovskite niobates. <i>Royal Society Open Science</i> , 2021, 8, 210121.	2.4	2
11	DFTTK: Density Functional Theory ToolKit for high-throughput lattice dynamics calculations. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021, 75, 102355.	1.6	17
12	Half-metallicity and magnetism of CoFeHfGe novel quaternary Heusler alloy in bulk form as well as (100) and (001) surfaces: An ab initio study. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109190.	4.0	21
13	Modeling of alloying effect on elastic properties in BCC Nb-Ti-V-Zr solid solution: From unary to quaternary. <i>Computational Materials Science</i> , 2020, 172, 109289.	3.0	48
14	Solution-Based Synthesis of Layered Two-Dimensional Oxides as Broadband Emitters. <i>ACS Nano</i> , 2020, 14, 15544-15551.	14.6	5
15	Modelling and prediction of thermal deformation behaviors in a pearlitic steel. <i>Materials Today Communications</i> , 2020, 25, 101134.	1.9	10
16	Giant Zeeman-type spin splitting of free electron/hole states on quasi-2D perovskite niobates: a theoretical prediction. <i>Scientific Reports</i> , 2020, 10, 3698.	3.3	2
17	A novel FeCrNiAlTi-based high entropy alloy strengthened by refined grains. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153729.	5.5	39
18	Parameters optimization design of quenching and partitioning for best combination between strength and ductility using orthogonal experimental design. <i>Journal of Iron and Steel Research International</i> , 2019, 26, 1088-1095.	2.8	7

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19	Ultra-high temperature ceramics melting temperature prediction via machine learning. <i>Ceramics International</i> , 2019, 45, 18551-18555.	4.8	35
20	Parameters prediction of hot-pressing sintering of high entropy alloys using numerical modeling and simulation. <i>Procedia Manufacturing</i> , 2019, 37, 529-536.	1.9	0
21	Alloying effect on phase stability, elastic and thermodynamic properties of Nb-Ti-V-Zr high entropy alloy. <i>Intermetallics</i> , 2018, 101, 152-164.	3.9	104
22	Quantum confined two-dimensional electron/hole gas switching by facet orientation of perovskite oxides. <i>RSC Advances</i> , 2018, 8, 20477-20482.	3.6	2