

Hu Tang

List of Publications by Year in descending order

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23
papers

616
citations

623734

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642732

23
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24
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24
docs citations

24
times ranked

632
citing authors

#	ARTICLE	IF	CITATIONS
1	The microstructure and mechanical properties of novel Al-Cr-Fe-Mn-Ni high-entropy alloys with trimodal distributions of coherent B2 precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 757, 160-171.	5.6	71
2	Synthesis of paracrystalline diamond. <i>Nature</i> , 2021, 599, 605-610.	27.8	70
3	Diffusion-controlled alloying of single-phase multi-principal transition metal carbides with high toughness and low thermal diffusivity. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	48
4	Pressure-driven catalyst synthesis of Co-doped Fe C@Carbon nano-onions for efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118385.	20.2	48
5	Synthesis of nano-polycrystalline diamond in proximity to industrial conditions. <i>Carbon</i> , 2016, 108, 1-6.	10.3	44
6	Revealing the formation mechanism of ultrahard nanotwinned diamond from onion carbon. <i>Carbon</i> , 2018, 129, 159-167.	10.3	40
7	Metal-to-Semiconductor Transition and Electronic Dimensionality Reduction of Ca ₂ N Electride under Pressure. <i>Advanced Science</i> , 2018, 5, 1800666.	11.2	36
8	Boron-Rich Molybdenum Boride with Unusual Short-Range Vacancy Ordering, Anisotropic Hardness, and Superconductivity. <i>Chemistry of Materials</i> , 2020, 32, 459-467.	6.7	35
9	A novel non-stoichiometric medium-entropy carbide stabilized by anion vacancies. <i>Journal of Materials Science and Technology</i> , 2020, 51, 161-166.	10.7	32
10	Iron-regulated NiPS for enhanced oxygen evolution efficiency. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23580-23589.	10.3	30
11	Processing and mechanical properties of nonstoichiometric TiC (0.3$\leq x \leq 0.5$). <i>Ceramics International</i> , 2018, 44, 18996-19001.	4.8	26
12	Formation, reverse transformation, and properties of μ -martensite phase in the CoCrFeMnNi high-entropy alloy under high-pressure. <i>Journal of Alloys and Compounds</i> , 2019, 779, 1-6.	5.5	20
13	Diversities of stoichiometry and electrical conductivity in sodium sulfides. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16472-16478.	10.3	15
14	Depressed 660-km discontinuity caused by akimotoite-to-bridgmanite transition. <i>Nature</i> , 2022, 601, 69-73.	27.8	15
15	Towards ultrastrong and ductile medium-entropy alloy through dual-phase ultrafine-grained architecture. <i>Journal of Materials Science and Technology</i> , 2022, 126, 228-236.	10.7	15
16	Spark plasma sintering of WC-VC0.5 composites with exceptional mechanical properties and high-temperature performance. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142360.	5.6	14
17	High strain rate of quartz glass and its effects during high-speed dicing. <i>Ceramics International</i> , 2019, 45, 13523-13529.	4.8	13
18	Extraordinary toughening enhancement in nonstoichiometric vanadium carbide. <i>Journal of Materials Science and Technology</i> , 2022, 97, 176-181.	10.7	13

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19	o-C240: a new sp ³ -dominated allotrope of carbon. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 395401.	1.8	12
20	Synthesis and application of titania-coated ultrafine diamond abrasive particles. <i>Ceramics International</i> , 2016, 42, 8884-8890.	4.8	11
21	Synthesis of Non-Stoichiometric (TiNb)CO _{0.5} with High Hardness and Fracture Toughness under HTHP. <i>Materials</i> , 2018, 11, 1219.	2.9	3
22	High-Pressure and High-Temperature Synthesis and In Situ High-Pressure Synchrotron X-ray Diffraction Study of HfSi ₂ . <i>Inorganic Chemistry</i> , 2021, 60, 15215-15222.	4.0	3
23	sp ² -to-sp ³ transitions in graphite during cold-compression. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10561-10566.	2.8	2