

A-Kun Liang

List of Publications by Year in descending order

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papers

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30
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Hardness and thermal stability enhancement of polycrystalline diamond compact through additive hexagonal boron nitride. <i>Scripta Materialia</i> , 2018, 149, 1-5.	2.6	35
2	High-pressure sintering of bulk MoSi ₂ : Microstructural, physical properties and mechanical behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 389-396.	2.6	28
3	First-Order Isostructural Phase Transition Induced by High Pressure in Fe(IO ₃) ₃ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 8669-8679.	1.5	24
4	High-Pressure Raman Study of Fe(IO ₃) ₃ : Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21329-21337.	1.5	21
5	Prediction of pressure-induced superconductivity in the novel ternary system ScCaH _{2n} (<i>n</i> = 1-6). <i>Journal of Materials Chemistry C</i> , 2021, 9, 7284-7291.	2.7	21
6	Microstructure evolution, densification behavior and mechanical properties of nano-HfB ₂ sintered under high pressure. <i>Ceramics International</i> , 2019, 45, 7885-7893.	2.3	20
7	Structural and vibrational study of Zn ₂ IO ₆ under high pressure: high-pressure experiments and density functional theory. <i>Physical Review B</i> , 2021, 103, 114107.	1.1	19
8	Hardness of Polycrystalline Wurtzite Boron Nitride (wBN) Compacts. <i>Scientific Reports</i> , 2019, 9, 10215.	1.6	18
9	Understanding the Pressure Effect on the Elastic, Electronic, Vibrational, and Bonding Properties of the CeScO ₃ Perovskite. <i>Journal of Physical Chemistry C</i> , 2021, 125, 107-119.	1.5	17
10	Strength enhancement of nanocrystalline tungsten under high pressure. <i>Matter and Radiation at Extremes</i> , 2020, 5, 058401.	1.5	16
11	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO ₃) ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 17448-17461.	1.5	14
12	Pressure-dependent modifications in the optical and electronic properties of Fe(IO ₃) ₃ : the role of Fe 3d and I 5p lone-pair electrons. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4780-4790.	3.0	13
13	Micro-sized polycrystalline cubic boron nitride with properties comparable to nanocrystalline counterparts. <i>Ceramics International</i> , 2020, 46, 8806-8810.	2.3	12
14	Experimental study on the pressure-generation efficiency and pressure-seal mechanism for large volume cubic press. <i>Review of Scientific Instruments</i> , 2018, 89, 075106.	0.6	11
15	Structural, vibrational and electronic properties in the glass-crystal transition of thin films Sb ₇₀ Te ₃₀ doped with Sn. <i>Journal of Alloys and Compounds</i> , 2020, 845, 156307.	2.8	11
16	High-Pressure Spectroscopy Study of Zn(IO ₃) ₂ Using Far-Infrared Synchrotron Radiation. <i>Crystals</i> , 2021, 11, 34.	1.0	10
17	High-pressure tuning of crystal-field electronic transitions and electronic band gap in Co ₂ IO ₆ . <i>Physical Review B</i> , 2021, 103, 114107.	1.1	10
18	Thermal insulation performance of monoclinic ZrO ₂ and cubic ZrO ₂ -CaO solid solution under high pressure and high temperature. <i>High Pressure Research</i> , 2018, 38, 458-467.	0.4	9

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19	Pressure-induced phase transition and increase of oxygen-iodine coordination in magnesium iodate. <i>Physical Review B</i> , 2022, 105, .	1.1	9
20	Melting temperature of diamond and cubic boron nitride at 15 gigapascals. <i>Physical Review Research</i> , 2019, 1, .	1.3	8
21	Pressure-Induced Phase Transition and Band Gap Decrease in Semiconducting $\text{I}_2\text{-Cu}_2\text{V}_2\text{O}_7$. <i>Inorganic Chemistry</i> , 2022, 61, 3697-3707.	1.9	7
22	General relationship between the band-gap energy and iodine-oxygen bond distance in metal iodates. <i>Physical Review Materials</i> , 2022, 6, .	0.9	7
23	<i>In situ</i> high-pressure measurement of crystal solubility by using neutron diffraction. <i>Review of Scientific Instruments</i> , 2018, 89, 053906.	0.6	6
24	Pressure-induced band anticrossing in two adamantine ordered-vacancy compounds: CdGa_2S_4 and HgGa_2S_4 . <i>Journal of Alloys and Compounds</i> , 2021, 886, 161226.	2.8	6
25	Simple New Method for the Preparation of $\text{La}(\text{IO}_3)_3$ Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 2400.	1.9	5
26	Exploring the compression behavior of HP-BiNbO_4 under high pressure. <i>Chinese Physics B</i> , 2017, 26, 116202.	0.7	4
27	Novel structural phases and the properties of LaX ($X = \text{P}, \text{As}$) under high pressure: first-principles study. <i>RSC Advances</i> , 2021, 11, 3058-3070.	1.7	4
28	Synthesis and Characterization of Novel Nanoparticles of Lithium Aluminum Iodate $\text{LiAl}(\text{IO}_3)_4$, and DFT Calculations of the Crystal Structure and Physical Properties. <i>Nanomaterials</i> , 2021, 11, 3289.	1.9	3
29	Anisotropic lattice thermal conductivity in topological semimetal ZrGeX ($X = \text{S}, \text{Se}, \text{Te}$): a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 135401.	0.7	2
30	Metallization and superconductivity of NBH_{12} compounds stabilized by dihydrogen bonds. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3081-3088.	2.7	2