A-Kun Liang

List of Publications by Year
in descending order

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30	372	759055 12	887953 17
papers	citations	h-index	g-index

30	30	30	302
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metallization and superconductivity of NBH₁₂ compounds stabilized by dihydrogen bonds. Journal of Materials Chemistry C, 2022, 10, 3081-3088.	2.7	2
2	Pressure-Induced Phase Transition and Band Gap Decrease in Semiconducting Î²-Cu₂V₂O₇. Inorganic Chemistry, 2022, 61, 3697-3707.	1.9	7
3	Pressure-induced phase transition and increase of oxygen-iodine coordination in magnesium iodate. Physical Review B, 2022, 105, .	1.1	9
4	High-pressure tuning of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>d</mml:mi><mml:mo>â€“</mml:mo><mml:mi>d</mml:m crystal-field electronic transitions and electronic band gap in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Co</mml:mi><mml:msub><mml:mrow><mml:mo>(</mm	1.1	10
5	General relationship between the band-gap energy and iodine-oxygen bond distance in metal iodates. Physical Review Materials, 2022, 6, .	0.9	7
6	Prediction of pressure-induced superconductivity in the novel ternary system ScCaH_{2n}(n= 1â€“6). Journal of Materials Chemistry C, 2021, 9, 7284-7291.	2.7	21
7	Pressure-dependent modifications in the optical and electronic properties of Fe(IO₃)₃: the role of Fe 3d and I 5p loneâ€“pair electrons. Inorganic Chemistry Frontiers, 2021, 8, 4780-4790.	3.0	13
8	Novel structural phases and the properties of LaX (X = P, As) under high pressure: first-principles study. RSC Advances, 2021, 11, 3058-3070.	1.7	4
9	Structural and vibrational study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Zn</mml:mi><mml:msub><mml:mrow><mml:mo>(</m high-pressure experiments and density-functional theory. Physical Review B, 2021, 103, .	1.1	19
10	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO₃)₂. Journal of Physical Chemistry C, 2021, 125, 17448-17461.	1.5	14
11	Pressure-induced band anticrossing in two adamantine ordered-vacancy compounds: CdGa2S4 and HgGa2S4. Journal of Alloys and Compounds, 2021, 886, 161226.	2.8	6
12	Anisotropic lattice thermal conductivity in topological semimetal ZrGeX (X = S, Se, Te): a first-principles study. Journal of Physics Condensed Matter, 2021, 33, 135401.	0.7	2
13	Understanding the Pressure Effect on the Elastic, Electronic, Vibrational, and Bonding Properties of the CeScO₃ Perovskite. Journal of Physical Chemistry C, 2021, 125, 107-119.	1.5	17
14	High-Pressure Spectroscopy Study of Zn(IO3)2 Using Far-Infrared Synchrotron Radiation. Crystals, 2021, 11, 34.	1.0	10
15	Synthesis and Characterization of Novel Nanoparticles of Lithium Aluminum Iodate LiAl(IO3)4, and DFT Calculations of the Crystal Structure and Physical Properties. Nanomaterials, 2021, 11, 3289.	1.9	3
16	Micro-sized polycrystalline cubic boron nitride with properties comparable to nanocrystalline counterparts. Ceramics International, 2020, 46, 8806-8810.	2.3	12
17	Strength enhancement of nanocrystalline tungsten under high pressure. Matter and Radiation at Extremes, 2020, 5, 058401.	1.5	16
18	Simple New Method for the Preparation of La(IO3)3 Nanoparticles. Nanomaterials, 2020, 10, 2400.	1.9	5

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19	High-Pressure Raman Study of Fe(IO₃)₃: Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. Journal of Physical Chemistry C, 2020, 124, 21329-21337.	1.5	21
20	Structural, vibrational and electronic properties in the glass-crystal transition of thin films Sb70Te30 doped with Sn. Journal of Alloys and Compounds, 2020, 845, 156307.	2.8	11
21	First-Order Isostructural Phase Transition Induced by High Pressure in Fe(IO₃)₃. Journal of Physical Chemistry C, 2020, 124, 8669-8679.	1.5	24
22	Hardness of Polycrystalline Wurtzite Boron Nitride (wBN) Compacts. Scientific Reports, 2019, 9, 10215.	1.6	18
23	Microstructure evolution, densification behavior and mechanical properties of nano-HfB2 sintered under high pressure. Ceramics International, 2019, 45, 7885-7893.	2.3	20
24	Melting temperature of diamond and cubic boron nitride at 15 gigapascals. Physical Review Research, 2019, 1, .	1.3	8
25	Hardness and thermal stability enhancement of polycrystalline diamond compact through additive hexagonal boron nitride. Scripta Materialia, 2018, 149, 1-5.	2.6	35
26	High-pressure sintering of bulk MoSi2: Microstructural, physical properties and mechanical behavior. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 389-396.	2.6	28
27	Thermal insulation performance of monoclinic ZrO₂and cubic ZrO₂â€“CaO solid solution under high pressure and high temperature. High Pressure Research, 2018, 38, 458-467.	0.4	9
28	Experimental study on the pressure-generation efficiency and pressure-seal mechanism for large volume cubic press. Review of Scientific Instruments, 2018, 89, 075106.	0.6	11
29	In situ high-pressure measurement of crystal solubility by using neutron diffraction. Review of Scientific Instruments, 2018, 89, 053906.	0.6	6
30	Exploring the compression behavior of HP-BiNbO 4 under high pressure. Chinese Physics B, 2017, 26, 116202.	0.7	4