

Cai-Long Liu

List of Publications by Year in descending order

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69
papers

1,300
citations

430442

18
h-index

395343

33
g-index

69
all docs

69
docs citations

69
times ranked

1650
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of high-pressure technology in exploring mechanical properties of high-entropy alloys. Tungsten, 2023, 5, 50-66.	2.0	6
2	Ultrahigh Aggregation Induced Emission Efficiency in Multitwist-Based Luminogens under High Pressure. Journal of Physical Chemistry Letters, 2022, 13, 136-141.	2.1	14
3	Pressure-induced transition from pure electronic to mixed ionic-electronic conduction in strontium hydride. Applied Physics Letters, 2022, 120, 073904.	1.5	2
4	Formation of N_3H_3Xe compound at the extreme condition of planetary interiors. Physical Review B, 2022, 105, .	1.1	5
5	Structural and electrical transport properties of PbS quantum dots under high pressure. Journal of Alloys and Compounds, 2021, 857, 157482.	2.8	6
6	Conduction transition and electronic conductivity enhancement of cesium azide by pressure-directed grain boundary engineering. Journal of Materials Chemistry C, 2021, 9, 4764-4770.	2.7	3
7	Turning on high-rate-capability fluorescence resonance energy transfer in a quantum dot-molecule system via high pressure. Journal of Materials Chemistry C, 2021, 9, 14388-14393.	2.7	6
8	Anomalous phonon softening of G-band in compressed graphitic carbon nitride due to strong electrostatic repulsion. Applied Physics Letters, 2021, 118, .	1.5	2
9	Modulation Format Identification Using Graph-Based 2D Stokes Plane Analysis for Elastic Optical Network. IEEE Photonics Journal, 2021, 13, 1-15.	1.0	8
10	Excellent optoelectronic applications and electrical transport behavior of the n-WO ₃ /p-diamond heterojunction: a new perspective. Nanotechnology, 2021, 32, 332501.	1.3	8
11	Förster resonance energy transfer outpaces Auger recombination in CdTe/CdS quantum dots-rhodamine101 molecules system upon compression. Optics Express, 2021, 29, 27171.	1.7	10
12	A Review on the Properties and Applications of WO ₃ Nanostructure-Based Optical and Electronic Devices. Nanomaterials, 2021, 11, 2136.	1.9	63
13	Improved Dielectric Properties and Grain Boundary Effect of Phenanthrene Under High Pressure. Frontiers in Physics, 2021, 9, .	1.0	2
14	Pressure-Induced Mixed Protonic-Electronic to Pure Electronic Conduction Transition in Goethite. Journal of Physical Chemistry C, 2021, 125, 2713-2718.	1.5	3
15	Review on the Properties of Boron-Doped Diamond and One-Dimensional-Metal-Oxide Based P-N Heterojunction. Molecules, 2021, 26, 71.	1.7	13
16	Highly Sensitive and Ultrafast Organic Phototransistor Based on Rubrene Single Crystals. ACS Applied Materials & Interfaces, 2021, 13, 57735-57742.	4.0	15
17	Electron momentum density of boron-doped carbon nano-onions studied by electron energy-loss spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 26343-26348.	1.3	1
18	Crystal Structure and Stability of Ammonium Azide Under High Pressure. Journal of Physical Chemistry C, 2020, 124, 135-142.	1.5	4

#	ARTICLE	IF	CITATIONS
19	Transformation of Ammonium Azide at High Pressure and Temperature. <i>Materials</i> , 2020, 13, 4102.	1.3	3
20	Prediction of a Stable Organic Metal-Free Porous Material as a Catalyst for Water-Splitting. <i>Catalysts</i> , 2020, 10, 836.	1.6	13
21	Pressure tuning of electron transfer rate in near-infrared PbS-anthraquinone complexes. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	6
22	High-Pressure Band-Gap Engineering and Metallization in the Perovskite Derivative Cs ₃ Sb ₂ I ₉ . <i>ChemSusChem</i> , 2019, 12, 3971-3976.	3.6	28
23	Dielectric properties and the role of grain boundaries in polycrystalline tetracene at high pressures. <i>CrystEngComm</i> , 2019, 21, 4507-4512.	1.3	6
24	Pressure-Induced Ionic-Electronic Transition in BiVO ₄ *. <i>Chinese Physics Letters</i> , 2019, 36, 077202.	1.3	2
25	Lighting Up the Invisible Twisted Intramolecular Charge Transfer State by High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 748-753.	2.1	95
26	Pressure-Induced Tunable Electron Transfer and Auger Recombination Rates in CdSe/ZnS Quantum Dot-Anthraquinone Complexes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3064-3070.	2.1	30
27	Tuning Optical and Electronic Properties in Low-Toxicity Organic-Inorganic Hybrid (CH ₃ NH ₃) ₃ Bi ₂ I ₉ under High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1676-1683.	2.1	35
28	Magnetic field analysis in a diamond anvil cell for Meissner effect measurement by using the diamond NV ⁺ center. <i>Chinese Physics B</i> , 2019, 28, 030702.	0.7	3
29	Effects of pressure on the ionic transport and photoelectrical properties of CsPbBr ₃ . <i>Applied Physics Letters</i> , 2019, 114, .	1.5	25
30	Ultrafast carrier dynamics in all-inorganic CsPbBr ₃ perovskite across the pressure-induced phase transition. <i>Optics Express</i> , 2019, 27, A995.	1.7	29
31	Pressure-induced abnormal ionic-polaronic-ionic transition sequences in AgBr. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7492-7497.	1.3	11
32	Hydride ion (H ⁻) transport behavior in barium hydride under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8917-8923.	1.3	17
33	Accurate temperature measurement by temperature field analysis in diamond anvil cell for thermal transport study of matter under high pressures. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	15
34	Ionic conduction in sodium azide under high pressure: Experimental and theoretical approaches. <i>Applied Physics Letters</i> , 2018, 112, 173903.	1.5	12
35	Investigation on electrical transport properties of nanocrystalline WO ₃ under high pressure. <i>Journal of Materials Science</i> , 2018, 53, 6339-6349.	1.7	4
36	Pressure effects on the inductive loop, mixed conduction, and photoresponsivity in formamidinium lead bromide perovskite. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	13

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37	Facet-dependent electrical and mechanical properties of polyhedral Cu ₂ O under compression. Journal of Alloys and Compounds, 2018, 762, 835-841.	2.8	2
38	Pressure-Induced Emission Enhancement, Band-Gap Narrowing, and Metallization of Halide Perovskite Cs ₃ Bi ₂ I ₉ . Angewandte Chemie, 2018, 130, 11383-11387.	1.6	14
39	Pressure-Induced Emission Enhancement, Band-Gap Narrowing, and Metallization of Halide Perovskite Cs ₃ Bi ₂ I ₉ . Angewandte Chemie - International Edition, 2018, 57, 11213-11217.	7.2	170
40	Pressure dependence of excited-state charge-carrier dynamics in organolead tribromide perovskites. Applied Physics Letters, 2018, 112, .	1.5	21
41	Pressure Dependence of Mixed Conduction and Photo Responsiveness in Organolead Tribromide Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 2944-2950.	2.1	33
42	Ionic transport and dielectric properties in NaNbO ₃ under high pressure. Applied Physics Letters, 2017, 111, .	1.5	14
43	Ionic transport properties in AgCl under high pressures. Applied Physics Letters, 2017, 111, .	1.5	16
44	Decompression-Driven Superconductivity Enhancement in In ₂ Se ₃ . Advanced Materials, 2017, 29, 1701983.	11.1	35
45	Determination of the high pressure phases of CaWO ₄ by CALYPSO and X-ray diffraction studies. Physica Status Solidi (B): Basic Research, 2016, 253, 1947-1951.	0.7	8
46	The determination of ionic transport properties at high pressures in a diamond anvil cell. Review of Scientific Instruments, 2016, 87, 123904.	0.6	25
47	High-pressure dielectric behavior of BaMoO ₄ : a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 33109-33114.	1.3	17
48	Pressure-driven semiconducting-semimetallic transition in SnSe. Physical Chemistry Chemical Physics, 2016, 18, 5012-5018.	1.3	50
49	Visible light response, electrical transport, and amorphization in compressed organolead iodine perovskites. Nanoscale, 2016, 8, 11426-11431.	2.8	90
50	Metallization and Hall-effect of Mg ₂ Ge under high pressure. Applied Physics Letters, 2015, 107, .	1.5	13
51	Effect of crystallization water on the structural and electrical properties of CuWO ₄ under high pressure. Applied Physics Letters, 2015, 107, .	1.5	8
52	Mixed conduction and grain boundary effect in lithium niobate under high pressure. Applied Physics Letters, 2015, 106, .	1.5	20
53	Anomalous variation of electrical transport property and amorphization in dense Alq ₃ . RSC Advances, 2015, 5, 41359-41364.	1.7	2
54	High pressure study of B ₁₂ As ₂ : Electrical transport behavior and the role of grain boundaries. Journal of Applied Physics, 2015, 117, .	1.1	4

#	ARTICLE	IF	CITATIONS
55	High pressure electrical transport behavior in organic semiconductor pentacene. High Pressure Research, 2014, 34, 355-364.	0.4	8
56	Interlayer-glide-driven isosymmetric phase transition in compressed In ₂ Se ₃ . Applied Physics Letters, 2014, 104, .	1.5	31
57	Electronic topological transition and semiconductor-to-metal conversion of Bi ₂ Te ₃ under high pressure. Applied Physics Letters, 2013, 103, .	1.5	39
58	High-pressure dielectric detecting in diamond anvil cell based on in situ impedance measurement. Chemical Physics Letters, 2013, 582, 163-166.	1.2	3
59	High-Pressure Electrical-Transport Properties of SnS: Experimental and Theoretical Approaches. Journal of Physical Chemistry C, 2013, 117, 6033-6038.	1.5	35
60	Impurity level evolution and majority carrier-type inversion of Ag ₂ S under extreme compression: Experimental and theoretical approaches. Applied Physics Letters, 2013, 103, 082116.	1.5	16
61	Size-dependent phase transition of graphite to superhard graphite under high pressure at room temperature. Journal of Applied Physics, 2012, 112, .	1.1	6
62	Electrical Transport Properties of BaWO ₄ under High Pressure. Journal of Physical Chemistry C, 2012, 116, 25198-25205.	1.5	15
63	Electrical Properties and Behaviors of Cuprous Oxide Cubes under High Pressure. Inorganic Chemistry, 2012, 51, 7001-7003.	1.9	12
64	High-Pressure Electrical Transport Behavior in WO ₃ . Journal of Physical Chemistry C, 2012, 116, 5209-5214.	1.5	17
65	High-pressure electrical transport properties of KNbO ₃ : Experimental and theoretical approaches. Applied Physics Letters, 2012, 100, .	1.5	21
66	High pressure impedance spectroscopy of CdS nanocrystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1680-1682.	0.8	0
67	The effect of grain boundary on resistance change in powdered ZnS under high pressure by <i>in situ</i> electrical impedance measurements. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1687-1691.	0.8	2
68	<i>In situ</i> impedance measurements in diamond anvil cell under high pressure. Review of Scientific Instruments, 2010, 81, 013904.	0.6	19
69	Phase transformation and resistivity of dumbbell-like ZnO microcrystals under high pressure. Journal of Applied Physics, 2008, 103, 114901.	1.1	16