

Qing-Lin Wang

List of Publications by Year in descending order

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74
papers

1,165
citations

471371

17
h-index

477173

29
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75
all docs

75
docs citations

75
times ranked

1392
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	Mn ²⁺ ions substitution inducing improvement of optical performances in ZnAl ₂ O ₄ : Cr ³⁺ phosphors: Energy transfer and ratiometric optical thermometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 264, 120321.	2.0	6
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	Enhanced Photoluminescence and Electrical Properties of n-Al-Doped ZnO Nanorods/p-B-Doped Diamond Heterojunction. International Journal of Molecular Sciences, 2022, 23, 3831.	1.8	6
5	A novel square planar N ₄ ring with aromaticity in BeN ₄ . Matter and Radiation at Extremes, 2022, 7, .	1.5	19
6	Structural and electrical transport properties of PbS quantum dots under high pressure. Journal of Alloys and Compounds, 2021, 857, 157482.	2.8	6
7	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
8	Stable nitrogen-rich scandium nitrides and their bonding features under ambient conditions. Physical Chemistry Chemical Physics, 2021, 23, 6863-6870.	1.3	20
9	ReaxFF-MPNN machine learning potential: a combination of reactive force field and message passing neural networks. Physical Chemistry Chemical Physics, 2021, 23, 19457-19464.	1.3	9
10	The white light caused by defects and complex cation distribution in ZnAl _{2-2x} Fe _x O ₄ magnetic nanocrystals. Materials Research Express, 2021, 8, 025902.	0.8	3
11	Modulated Luminescence of Lanthanide Materials by Local Surface Plasmon Resonance Effect. Nanomaterials, 2021, 11, 1037.	1.9	15
12	17.8 fs broadband Kerr-lens mode-locked Yb:CALGO oscillator. Optics Letters, 2021, 46, 1892.	1.7	39
13	Excellent optoelectronic applications and electrical transport behavior of the n-WO ₃ nanostructures/p-diamond heterojunction: a new perspective. Nanotechnology, 2021, 32, 332501.	1.3	8
14	MoS ₂ Functionalized Multicore Fiber Probes for Selective Detection of <i>Shigella</i> Bacteria Based on Localized Plasmon. Journal of Lightwave Technology, 2021, 39, 4069-4081.	2.7	144
15	Secrecy Performance Analysis of Hybrid RF/VLC Dual-Hop Relaying Systems. Frontiers in Physics, 2021, 9, .	1.0	3
16	A Review on the Properties and Applications of WO ₃ Nanostructure-Based Optical and Electronic Devices. Nanomaterials, 2021, 11, 2136.	1.9	63
17	Improved Dielectric Properties and Grain Boundary Effect of Phenanthrene Under High Pressure. Frontiers in Physics, 2021, 9, .	1.0	2
18	An energetic phase of ZnN ₆ at ambient conditions. Physica B: Condensed Matter, 2021, 617, 413139.	1.3	3

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19	Tuning structural and optical characteristics with Mn ²⁺ introduced into ZnAl ₂ O ₄ :Cr ³⁺ nanophosphors: Energy transfer process and cations rearrangement. <i>Journal of Luminescence</i> , 2021, 239, 118362.	1.5	7
20	Pressure-Induced Mixed Protonic–Electronic to Pure Electronic Conduction Transition in Goethite. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2713-2718.	1.5	3
21	Review on the Properties of Boron-Doped Diamond and One-Dimensional-Metal-Oxide Based P-N Heterojunction. <i>Molecules</i> , 2021, 26, 71.	1.7	13
22	Energy-Efficient Trajectory Optimization for UAV-Based Hybrid FSO/RF Communications with Buffer Constraints. <i>Entropy</i> , 2021, 23, 1596.	1.1	3
23	The effect of pressure and temperature on the structure and electrical transport properties of MoO ₂ . <i>Journal of Alloys and Compounds</i> , 2020, 814, 152336.	2.8	9
24	High-pressure topological transport study of Bi ₂ Se ₃ single crystal. <i>Applied Surface Science</i> , 2020, 507, 145052.	3.1	4
25	Effect of High Pressure on the Dielectric Properties of SrMoO ₄ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 17932-17938.	1.5	8
26	Detection of Collagen-IV Using Highly Reflective Metal Nanoparticles–Immobilized Photosensitive Optical Fiber-Based MZI Structure. <i>IEEE Transactions on Nanobioscience</i> , 2020, 19, 477-484.	2.2	45
27	Negative Differential Resistance of n-ZnO Nanorods/p-degenerated Diamond Heterojunction at High Temperatures. <i>Frontiers in Chemistry</i> , 2020, 8, 531.	1.8	12
28	Prediction of a Stable Organic Metal-Free Porous Material as a Catalyst for Water-Splitting. <i>Catalysts</i> , 2020, 10, 836.	1.6	13
29	Synthesis and high-pressure studies of strontium diazenide by synchrotron X-ray diffraction and DFT calculations. <i>RSC Advances</i> , 2020, 10, 26308-26312.	1.7	0
30	Performance Analysis and Improvement for Secure VLC With SLIPT and Random Terminals. <i>IEEE Access</i> , 2020, 8, 73645-73658.	2.6	10
31	Dielectric properties and the role of grain boundaries in polycrystalline tetracene at high pressures. <i>CrystEngComm</i> , 2019, 21, 4507-4512.	1.3	6
32	High-pressure stable phases in mercury azide. <i>Computational Materials Science</i> , 2019, 169, 109147.	1.4	6
33	Effects of pressure on the ionic transport and photoelectrical properties of CsPbBr ₃ . <i>Applied Physics Letters</i> , 2019, 114, .	1.5	25
34	Improved efficiency of organic light emitting devices using graphene oxide with optimized thickness as hole injection layer. <i>Solid-State Electronics</i> , 2019, 153, 46-51.	0.8	13
35	Structural, optical and photoluminescence properties of Ga ₂ O ₃ thin films deposited by vacuum thermal evaporation. <i>Journal of Luminescence</i> , 2019, 206, 53-58.	1.5	53
36	Hydride ion (H [−]) transport behavior in barium hydride under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8917-8923.	1.3	17

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37	Ionic conduction in sodium azide under high pressure: Experimental and theoretical approaches. Applied Physics Letters, 2018, 112, 173903.	1.5	12
38	Investigation on electrical transport properties of nanocrystalline WO ₃ under high pressure. Journal of Materials Science, 2018, 53, 6339-6349.	1.7	4
39	Influence of inversion defects and Cr ²⁺ Cr pairs on the photoluminescent performance of ZnAl ₂ O ₄ crystals. Journal of Sol-Gel Science and Technology, 2018, 85, 121-131.	1.1	26
40	High-pressure dielectric behavior of polycrystalline CaMoO ₄ : The role of grain boundaries. Journal of Alloys and Compounds, 2018, 730, 1-6.	2.8	11
41	Improved electrical transport properties of an n-ZnO nanowire/p-diamond heterojunction. RSC Advances, 2018, 8, 28804-28809.	1.7	14
42	X-ray diffraction and spectroscopy study of nano-Eu ₂ O ₃ structural transformation under high pressure. Journal of Alloys and Compounds, 2017, 701, 542-548.	2.8	18
43	An immutable array of TiO ₂ nanotubes to pressures over 30 GPa. Nanotechnology, 2017, 28, 145705.	1.3	3
44	Fabrication and high temperature electronic behaviors of n-WO ₃ nanorods/p-diamond heterojunction. Applied Physics Letters, 2017, 110, 052106.	1.5	21
45	Phase coexistence and pressure-temperature phase evolution of VO ₂ /molybdenum nanorods near the semiconductor-semiconductor transition. Physical Review B, 2017, 95, .	1.1	6
46	Pressure Dependence of Mixed Conduction and Photo Responsiveness in Organolead Tribromide Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 2944-2950.	2.1	33
47	Ionic transport and dielectric properties in NaNbO ₃ under high pressure. Applied Physics Letters, 2017, 111, .	1.5	14
48	Ionic transport properties in AgCl under high pressures. Applied Physics Letters, 2017, 111, .	1.5	16
49	Investigation on morphological properties of In ₂ S ₃ by high pressure x-ray diffraction. Materials Research Express, 2017, 4, 085902.	0.8	6
50	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
51	The determination of ionic transport properties at high pressures in a diamond anvil cell. Review of Scientific Instruments, 2016, 87, 123904.	0.6	25
52	High-pressure dielectric behavior of BaMoO ₄ : a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 33109-33114.	1.3	17
53	Pressure-induced electron phase transitions of $\hat{I}\pm$ -As ₂ Te ₃ . Journal of Alloys and Compounds, 2016, 685, 551-558.	2.8	13
54	Pressure-driven semiconducting-semimetallic transition in SnSe. Physical Chemistry Chemical Physics, 2016, 18, 5012-5018.	1.3	50

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55	Aligned ZnO nanorod arrays growth on GaN QDs for excellent optoelectronic applications. Nanotechnology, 2016, 27, 072501.	1.3	13
56	Metallization and Hall-effect of Mg ₂ Ge under high pressure. Applied Physics Letters, 2015, 107, .	1.5	13
57	Effect of crystallization water on the structural and electrical properties of CuWO ₄ under high pressure. Applied Physics Letters, 2015, 107, .	1.5	8
58	Ultraviolet photoelectrical properties of a n-ZnO nanorods/p-diamond heterojunction. RSC Advances, 2015, 5, 49211-49215.	1.7	18
59	Mixed conduction and grain boundary effect in lithium niobate under high pressure. Applied Physics Letters, 2015, 106, .	1.5	20
60	Anomalous variation of electrical transport property and amorphization in dense Alq ₃ . RSC Advances, 2015, 5, 41359-41364.	1.7	2
61	Electronic and optical properties of lithium niobate under high pressure: A first-principles study. Chinese Physics B, 2015, 24, 077104.	0.7	9
62	High pressure study of B12As ₂ : Electrical transport behavior and the role of grain boundaries. Journal of Applied Physics, 2015, 117, .	1.1	4
63	Electrical transport properties of AIs under compression: reversible boundary effect. Physical Chemistry Chemical Physics, 2015, 17, 26277-26282.	1.3	6
64	High pressure electrical transport behavior in organic semiconductor pentacene. High Pressure Research, 2014, 34, 355-364.	0.4	8
65	High-pressure dielectric detecting in diamond anvil cell based on in situ impedance measurement. Chemical Physics Letters, 2013, 582, 163-166.	1.2	3
66	Phase transitions in nanoparticles of BaTiO ₃ as functions of temperature and pressure. Journal of Applied Physics, 2013, 113, 193513.	1.1	25
67	Determination of the phase diagram of water and investigation of the electrical transport properties of ices VI and VII. Physical Chemistry Chemical Physics, 2013, 15, 14364.	1.3	6
68	High-Pressure Electrical-Transport Properties of SnS: Experimental and Theoretical Approaches. Journal of Physical Chemistry C, 2013, 117, 6033-6038.	1.5	35
69	Electrical Transport Properties of BaWO ₄ under High Pressure. Journal of Physical Chemistry C, 2012, 116, 25198-25205.	1.5	15
70	Electrical Properties and Behaviors of Cuprous Oxide Cubes under High Pressure. Inorganic Chemistry, 2012, 51, 7001-7003.	1.9	12
71	High-Pressure Electrical Transport Behavior in WO ₃ . Journal of Physical Chemistry C, 2012, 116, 5209-5214.	1.5	17
72	High-pressure electrical transport properties of KNbO ₃ : Experimental and theoretical approaches. Applied Physics Letters, 2012, 100, .	1.5	21

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73	Electrical Transport Properties of SnO under High Pressure. Journal of Physical Chemistry C, 2011, 115, 20710-20715.	1.5	26
74	Study on phase transition of SrTiO ₃ by <i>in situ</i> impedance measurement under high pressure. Physica Status Solidi (B): Basic Research, 2011, 248, 1111-1114.	0.7	2