Qing-Lin Wang

List of Publications by Year
in descending order

74	1,165	471371 17	477173 29
papers	citations	h-index	g-index

75	75	75	1392
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MoS₂ Functionalized Multicore Fiber Probes for Selective Detection of Shigella Bacteria Based on Localized Plasmon. Journal of Lightwave Technology, 2021, 39, 4069-4081.	2.7	144
2	A Review on the Properties and Applications of WO3 Nanostructureâ˜Based Optical and Electronic Devices. Nanomaterials, 2021, 11, 2136.	1.9	63
3	Structural, optical and photoluminescence properties of Ga2O3 thin films deposited by vacuum thermal evaporation. Journal of Luminescence, 2019, 206, 53-58.	1.5	53
4	Pressure-driven semiconducting-semimetallic transition in SnSe. Physical Chemistry Chemical Physics, 2016, 18, 5012-5018.	1.3	50
5	Detection of Collagen-IV Using Highly Reflective Metal Nanoparticlesâ€”Immobilized Photosensitive Optical Fiber-Based MZI Structure. IEEE Transactions on Nanobioscience, 2020, 19, 477-484.	2.2	45
6	17.8 fs broadband Kerr-lens mode-locked Yb:CALGO oscillator. Optics Letters, 2021, 46, 1892.	1.7	39
7	High-Pressure Electrical-Transport Properties of SnS: Experimental and Theoretical Approaches. Journal of Physical Chemistry C, 2013, 117, 6033-6038.	1.5	35
8	Pressure Dependence of Mixed Conduction and Photo Responsiveness in Organolead Tribromide Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 2944-2950.	2.1	33
9	Electrical Transport Properties of SnO under High Pressure. Journal of Physical Chemistry C, 2011, 115, 20710-20715.	1.5	26
10	Influence of inversion defects and Crâ€“Cr pairs on the photoluminescent performance of ZnAl2O4 crystals. Journal of Sol-Gel Science and Technology, 2018, 85, 121-131.	1.1	26
11	Phase transitions in nanoparticles of BaTiO3 as functions of temperature and pressure. Journal of Applied Physics, 2013, 113, 193513.	1.1	25
12	The determination of ionic transport properties at high pressures in a diamond anvil cell. Review of Scientific Instruments, 2016, 87, 123904.	0.6	25
13	Effects of pressure on the ionic transport and photoelectrical properties of CsPbBr3. Applied Physics Letters, 2019, 114, .	1.5	25
14	High-pressure electrical transport properties of KNbO3: Experimental and theoretical approaches. Applied Physics Letters, 2012, 100, .	1.5	21
15	Fabrication and high temperature electronic behaviors of n-WO3 nanorods/p-diamond heterojunction. Applied Physics Letters, 2017, 110, 052106.	1.5	21
16	Mixed conduction and grain boundary effect in lithium niobate under high pressure. Applied Physics Letters, 2015, 106, .	1.5	20
17	Stable nitrogen-rich scandium nitrides and their bonding features under ambient conditions. Physical Chemistry Chemical Physics, 2021, 23, 6863-6870.	1.3	20
18	A novel square planar N42â˜ ring with aromaticity in BeN4. Matter and Radiation at Extremes, 2022, 7, .	1.5	19

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19	Ultraviolet photoelectrical properties of a n-ZnO nanorods/p-diamond heterojunction. RSC Advances, 2015, 5, 49211-49215.	1.7	18
20	X-ray diffraction and spectroscopy study of nano-Eu2O3 structural transformation under high pressure. Journal of Alloys and Compounds, 2017, 701, 542-548.	2.8	18
21	High-Pressure Electrical Transport Behavior in WO₃. Journal of Physical Chemistry C, 2012, 116, 5209-5214.	1.5	17
22	High-pressure dielectric behavior of BaMoO₄: a combined experimental and theoretical study. Physical Chemistry Chemical Physics, 2016, 18, 33109-33114.	1.3	17
23	Hydride ion (H^{â^'}) transport behavior in barium hydride under high pressure. Physical Chemistry Chemical Physics, 2018, 20, 8917-8923.	1.3	17
24	Ionic transport properties in AgCl under high pressures. Applied Physics Letters, 2017, 111, .	1.5	16
25	Electrical Transport Properties of BaWO₄ under High Pressure. Journal of Physical Chemistry C, 2012, 116, 25198-25205.	1.5	15
26	Modulated Luminescence of Lanthanide Materials by Local Surface Plasmon Resonance Effect. Nanomaterials, 2021, 11, 1037.	1.9	15
27	Ionic transport and dielectric properties in NaNbO3 under high pressure. Applied Physics Letters, 2017, 111, .	1.5	14
28	Improved electrical transport properties of an n-ZnO nanowire/p-diamond heterojunction. RSC Advances, 2018, 8, 28804-28809.	1.7	14
29	Metallization and Hall-effect of Mg2Ge under high pressure. Applied Physics Letters, 2015, 107, .	1.5	13
30	Pressure-induced electron phase transitions of Î±-As2Te3. Journal of Alloys and Compounds, 2016, 685, 551-558.	2.8	13
31	Aligned ZnO nanorod arrays growth on GaN QDs for excellent optoelectronic applications. Nanotechnology, 2016, 27, 072501.	1.3	13
32	Improved efficiency of organic light emitting devices using graphene oxide with optimized thickness as hole injection layer. Solid-State Electronics, 2019, 153, 46-51.	0.8	13
33	Prediction of a Stable Organic Metal-Free Porous Material as a Catalyst for Water-Splitting. Catalysts, 2020, 10, 836.	1.6	13
34	Review on the Properties of Boron-Doped Diamond and One-Dimensional-Metal-Oxide Based P-N Heterojunction. Molecules, 2021, 26, 71.	1.7	13
35	Electrical Properties and Behaviors of Cuprous Oxide Cubes under High Pressure. Inorganic Chemistry, 2012, 51, 7001-7003.	1.9	12
36	Ionic conduction in sodium azide under high pressure: Experimental and theoretical approaches. Applied Physics Letters, 2018, 112, 173903.	1.5	12

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37	Negative Differential Resistance of n-ZnO Nanorods/p-degenerated Diamond Heterojunction at High Temperatures. Frontiers in Chemistry, 2020, 8, 531.	1.8	12
38	High-pressure dielectric behavior of polycrystalline CaMoO4: The role of grain boundaries. Journal of Alloys and Compounds, 2018, 730, 1-6.	2.8	11
39	Performance Analysis and Improvement for Secure VLC With SLIPT and Random Terminals. IEEE Access, 2020, 8, 73645-73658.	2.6	10
40	Electronic and optical properties of lithium niobate under high pressure: A first-principles study. Chinese Physics B, 2015, 24, 077104.	0.7	9
41	The effect of pressure and temperature on the structure and electrical transport properties of MoO2. Journal of Alloys and Compounds, 2020, 814, 152336.	2.8	9
42	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
43	High pressure electrical transport behavior in organic semiconductor pentacene. High Pressure Research, 2014, 34, 355-364.	0.4	8
44	Effect of crystallization water on the structural and electrical properties of CuWO4 under high pressure. Applied Physics Letters, 2015, 107, .	1.5	8
45	Determination of the high pressure phases of CaWO₄ by CALYPSO and Xâ€ray diffraction studies. Physica Status Solidi (B): Basic Research, 2016, 253, 1947-1951.	0.7	8
46	Effect of High Pressure on the Dielectric Properties of SrMoO₄. Journal of Physical Chemistry C, 2020, 124, 17932-17938.	1.5	8
47	Excellent optoelectronic applications and electrical transport behavior of the n-WO₃ nanostructures/p-diamond heterojunction: a new perspective. Nanotechnology, 2021, 32, 332501.	1.3	8
48	Tuning structural and optical characteristics with Mn2+ introduced into ZnAl2O4:Cr3+ nanophosphors: Energy transfer process and cations rearrangement. Journal of Luminescence, 2021, 239, 118362.	1.5	7
49	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
50	Electrical transport properties of AlAs under compression: reversible boundary effect. Physical Chemistry Chemical Physics, 2015, 17, 26277-26282.	1.3	6
51	Phase coexistence and pressure-temperature phase evolution of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>VO</mml:mi><mml:mn>2</mml:mn></mml:msub> nanorods near the semiconductor-semiconductor transition. Physical Review B, 2017, 95, .	1.1	6
52	Investigation on morphological properties of In₂S₃ by high pressure x-ray diffraction. Materials Research Express, 2017, 4, 085902.	0.8	6
53	Dielectric properties and the role of grain boundaries in polycrystalline tetracene at high pressures. CrystEngComm, 2019, 21, 4507-4512.	1.3	6
54	High-pressure stable phases in mercury azide. Computational Materials Science, 2019, 169, 109147.	1.4	6

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55	Structural and electrical transport properties of PbS quantum dots under high pressure. Journal of Alloys and Compounds, 2021, 857, 157482.	2.8	6
56	Mn2+ ions substitution inducing improvement of optical performances in ZnAl2O4: Cr3+ phosphors: Energy transfer and ratiometric optical thermometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 264, 120321.	2.0	6
57	Application of high-pressure technology in exploring mechanical properties of high-entropy alloys. Tungsten, 2023, 5, 50-66.	2.0	6
58	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
59	High pressure study of B12As2: Electrical transport behavior and the role of grain boundaries. Journal of Applied Physics, 2015, 117, .	1.1	4
60	Investigation on electrical transport properties of nanocrystalline WO3 under high pressure. Journal of Materials Science, 2018, 53, 6339-6349.	1.7	4
61	High-pressure topological transport study of Bi2Se3 single crystal. Applied Surface Science, 2020, 507, 145052.	3.1	4
62	High-pressure dielectric detecting in diamond anvil cell based on in situ impedance measurement. Chemical Physics Letters, 2013, 582, 163-166.	1.2	3
63	An immutable array of TiO₂ nanotubes to pressures over 30 GPa. Nanotechnology, 2017, 28, 145705.	1.3	3
64	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
65	The white light caused by defects and complex cation distribution in ZnAl_{2-x}Fe_xO₄ magnetic nanocrystals. Materials Research Express, 2021, 8, 025902.	0.8	3
66	Secrecy Performance Analysis of Hybrid RF/VLC Dual-Hop Relaying Systems. Frontiers in Physics, 2021, 9, .	1.0	3
67	An energetic phase of ZnN6 at ambient conditions. Physica B: Condensed Matter, 2021, 617, 413139.	1.3	3
68	Pressure-Induced Mixed Protonicâ€“Electronic to Pure Electronic Conduction Transition in Goethite. Journal of Physical Chemistry C, 2021, 125, 2713-2718.	1.5	3
69	Energy-Efficient Trajectory Optimization for UAV-Based Hybrid FSO/RF Communications with Buffer Constraints. Entropy, 2021, 23, 1596.	1.1	3
70	Study on phase transition of SrTiO₃ by in situ impedance measurement under high pressure. Physica Status Solidi (B): Basic Research, 2011, 248, 1111-1114.	0.7	2
71	Anomalous variation of electrical transport property and amorphization in dense Alq3. RSC Advances, 2015, 5, 41359-41364.	1.7	2
72	Improved Dielectric Properties and Grain Boundary Effect of Phenanthrene Under High Pressure. Frontiers in Physics, 2021, 9, .	1.0	2

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73	Pressure-induced transition from pure electronic to mixed ionic-electronic conduction in strontium hydride. Applied Physics Letters, 2022, 120, 073904.	1.5	2
74	Synthesis and high-pressure studies of strontium diazenide by synchrotron X-ray diffraction and DFT calculations. RSC Advances, 2020, 10, 26308-26312.	1.7	0