

Chao-Ping Liu

List of Publications by Year in descending order

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52
papers

1,865
citations

331670

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254184

43
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52
docs citations

52
times ranked

3314
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Ultraviolet to Near-Infrared Emission and Photoresponse in Layered N-Doped Graphene Quantum Dots. ACS Nano, 2014, 8, 6312-6320.	14.6	455
2	Vertically Aligned ZnO Nanorod Arrays Sentsized with Gold Nanoparticles for Schottky Barrier Photovoltaic Cells. Journal of Physical Chemistry C, 2009, 113, 13433-13437.	3.1	174
3	Rapid Microwave Synthesis of Porous TiO ₂ Spheres and Their Applications in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 10419-10425.	3.1	111
4	Hydrothermal synthesis of ordered single-crystalline rutile TiO ₂ nanorod arrays on different substrates. Applied Physics Letters, 2010, 96, .	3.3	97
5	Hybrid photovoltaic cells based on ZnO/Sb ₂ S ₃ /P3HT heterojunctions. Physica Status Solidi (B): Basic Research, 2012, 249, 627-633.	1.5	85
6	Facile synthesis and electrochemical characterization of porous and dense TiO ₂ nanospheres for lithium-ion battery applications. Journal of Power Sources, 2011, 196, 6394-6399.	7.8	75
7	Carbon-bonded, oxygen-deficient TiO ₂ nanotubes with hybridized phases for superior Na-ion storage. Chemical Engineering Journal, 2018, 350, 201-208.	12.7	70
8	Effects of Free Carriers on the Optical Properties of Doped CdO for Full-Spectrum Photovoltaics. Physical Review Applied, 2016, 6, .	3.8	54
9	Tunable p-Type Conductivity and Transport Properties of AlN Nanowires <i>via</i> Mg Doping. ACS Nano, 2011, 5, 3591-3598.	14.6	47
10	Room-temperature Red-Green-Blue Whispering-Gallery Mode Lasing and White-Light Emission from Cesium Lead Halide Perovskite (CsPbX ₃ , X = Cl, Br, I) Microstructures. Advanced Optical Materials, 2018, 6, 1700993.	7.3	47
11	Enhanced performance by incorporation of zinc oxide nanowire array for organic-inorganic hybrid solar cells. Applied Physics Letters, 2012, 100, .	3.3	43
12	Vacancy defects induced changes in the electronic and optical properties of NiO studied by spectroscopic ellipsometry and first-principles calculations. Journal of Applied Physics, 2020, 128, .	2.5	42
13	Defects and properties of cadmium oxide based transparent conductors. Journal of Applied Physics, 2016, 119, .	2.5	32
14	Coherent nanoscale cobalt/cobalt oxide heterostructures embedded in porous carbon for the oxygen reduction reaction. RSC Advances, 2018, 8, 28625-28631.	3.6	32
15	Synthesis and characterization of hard ternary AlMgB composite films prepared by sputter deposition. Thin Solid Films, 2010, 518, 5372-5377.	1.8	30
16	Electronic structure of carbon nanotori: the roles of curvature, hybridization, and disorder. Journal of Physics Condensed Matter, 2006, 18, 4077-4084.	1.8	28
17	Atmospheric annealing effect on TiO ₂ /Sb ₂ S ₃ /P3HT heterojunction hybrid solar cell performance. RSC Advances, 2016, 6, 99282-99290.	3.6	28
18	Rapid thermal annealing assisted facile solution method for tungsten-doped vanadium dioxide thin films on glass substrate. Journal of Alloys and Compounds, 2020, 833, 155053.	5.5	26

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19	A comparative study on the electronic and optical properties of Sb ₂ Se ₃ thin film. Semiconductors, 2017, 51, 1615-1624.	0.5	25
20	Room-Temperature-Synthesized High-Mobility Transparent Amorphous CdO-Ga ₂ O ₃ Alloys with Widely Tunable Electronic Bands. ACS Applied Materials & Interfaces, 2018, 10, 7239-7247.	8.0	24
21	Magnetic response of carbon nanotori: the importance of curvature and disorder. Journal of Physics Condensed Matter, 2008, 20, 015206.	1.8	23
22	Magnetic response of chiral carbon nanotori: The dependence of torus radius. Physica B: Condensed Matter, 2008, 403, 2884-2887.	2.7	21
23	Stoichiometry Controlled Bipolar Conductivity in Nanocrystalline Ni _x Cd _{1-x} O. Physical Review Applied, 2019, 11, .	3.8	17
24	Efficient p-type doping of sputter-deposited NiO thin films with Li, Ag, and Cu acceptors. Physical Review Materials, 2020, 4, .	2.4	19
25	Controllable optical emission wavelength in all-inorganic halide perovskite alloy microplates grown by two-step chemical vapor deposition. Nano Research, 2020, 13, 2939-2949.	10.4	18
26	Room temperature sputtered Cu doped NiO _{1+δ} : p-type conductivity, stability of electrical properties and p-n heterojunction. Journal of Alloys and Compounds, 2020, 835, 155269.	5.5	18
27	Wide-Gap ZnO Alloy: A Transparent p-Type Oxide. Physical Review Applied, 2020, 13, .	3.8	17
28	Electron transport in a toroidal carbon nanotube device. Physica B: Condensed Matter, 2005, 365, 109-113.	2.7	16
29	Integrated Nanorods and Heterostructure Field Effect Transistors for Gas Sensing. Journal of Physical Chemistry C, 2010, 114, 7999-8004.	3.1	16
30	Improving the p-type conductivity of Cu ₂ O thin films by Ni doping and their heterojunction with n-ZnO. Applied Surface Science, 2022, 590, 153047.	6.1	14
31	Solution-processable graphene oxide as an insulator layer for metal-insulator-semiconductor silicon solar cells. RSC Advances, 2013, 3, 17918.	3.6	13
32	ZnO _{1-x} Te highly mismatched alloys beyond the dilute alloy limit: Synthesis and electronic band structure. Journal of Applied Physics, 2019, 125, 155702.	2.5	13
33	Band alignment of wide bandgap NiO/MoO ₃ and NiO/WO ₃ p-n heterojunctions studied by high-resolution X-ray photoelectron spectroscopy. Journal of Alloys and Compounds, 2021, 876, 160136.	5.5	13
34	Electronic structure at the interfaces of vertically aligned zinc oxide nanowires and sensitizing layers in photochemical solar cells. Journal Physics D: Applied Physics, 2011, 44, 325108.	2.8	12
35	High mobility transparent amorphous CdO-In ₂ O ₃ alloy films synthesized at room temperature. Applied Physics Letters, 2017, 111, .	3.3	12
36	Near-Ultraviolet Light-Emitting Devices Using Vertical ZnO Nanorod Arrays. Journal of Electronic Materials, 2012, 41, 853-856.	2.2	10

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37	Arrays of Si cones prepared by ion beams: growth mechanisms. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 309-315.	1.8	9
38	Low-temperature solution growth of textured zinc oxide films for light trapping enhancement in thin film silicon solar cells. <i>RSC Advances</i> , 2014, 4, 34669-34673.	3.6	8
39	Controlling the p-Type Conductivity and Composition Range for Bipolar Conduction in Ni _x Cd _{1-x} O Alloys by Acceptor Doping. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20000-20009.	3.1	8
40	Effects of oxygen stoichiometry on the phase stability of sputter-deposited Zn _{1-x} C _x O alloys. <i>Journal of Applied Physics</i> , 2022, 131, 045301.	2.4	8
41	Electronic structure and properties of Cu _{2-x} S thin films: Dependence of phase structures and free-hole concentrations. <i>Applied Surface Science</i> , 2022, 572, 151530.	6.1	8
42	Effects of free carriers on the optical properties of high mobility transition metal doped Zn _{1-x} O transparent conductors. <i>Physical Review Materials</i> , 2021, 5, 054001.	2.4	7
43	Conduction band modifications by d states in vanadium doped CdO. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153567.	5.5	6
44	Effects of oxygen flow ratio and thermal annealing on defect evolution of aluminum doped zinc oxide thin films by reactive DC magnetron sputtering. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 465703.	1.8	6
45	ZEEMAN EFFECT ON THE ELECTRONIC STRUCTURE OF CARBON NANOTUBE IN A STRONG MAGNETIC FIELD. <i>International Journal of Modern Physics B</i> , 2008, 22, 4845-4852.	2.0	5
46	Engineering Electronic Band Structure of Indium-doped Cd _{1-x} Mg _x O Alloys for Solar Power Conversion Applications. <i>Energy Technology</i> , 2018, 6, 122-126.	3.8	5
47	Amorphous CdO-In ₂ O ₃ alloy thin films with high conductivity and transparency synthesized by sol-gel method. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162341.	5.5	5
48	Optoelectronic properties and doping of magnetron sputtered highly mismatched ZnO _{1-x} Te _x alloy thin films. <i>Journal of Alloys and Compounds</i> , 2021, 852, 156950.	5.5	4
49	Effects of acceptor doping and oxygen stoichiometry on the properties of sputter-deposited p-type rocksalt Ni _{1-x} Zn _x O (0.3 x 1). <i>Tj ETQq1</i> 1 0.784314 rgBT /Overlock 10 Tf 50 2022, 905, 164224.	5.5	4
50	TUBE GEOMETRY EFFECTS ON QUANTUM TRANSPORT IN CARBON NANOTUBE ELECTRON RESONATORS. <i>International Journal of Modern Physics B</i> , 2005, 19, 3301-3307.	2.0	1
51	Doping limitation due to self-compensation by native defects in In-doped rocksalt Cd _x Zn _{1-x} O. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 065702.	1.8	1
52	Controlling electrical and optical properties of wurtzite Cd _{1-x} Zn _x O with high Cd contents via native defects manipulation by low-temperature annealing. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	1