Chao-Ping Liu

List of Publications by Year
in descending order

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52 papers	1,865 citations	331670 21 h-index	254184 43 g-index
52 all docs	52 docs citations	52 times ranked	3314 citing authors

#	Article	IF	Citations
1	Electronic structure and properties of Cu2-xS thin films: Dependence of phase structures and free-hole concentrations. Applied Surface Science, 2022, 572, 151530.	6.1	8
2	Amorphous CdO-In2O3 alloy thin films with high conductivity and transparency synthesized by sol-gel method. Journal of Alloys and Compounds, 2022, 893, 162341.	5.5	5
3	Doping limitation due to self-compensation by native defects in In-doped rocksalt Cd_xZn_{1â^'x}O. Journal of Physics Condensed Matter, 2022, 34, 065702.	1.8	1
4	Effects of acceptor doping and oxygen stoichiometry on the properties of sputter-deposited p-type rocksalt Ni Zn1O (0.3<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 632 Td (a 2022, 905, 164224.	5.5	4
5	Improving the pâ€"type conductivity of Cu2O thin films by Ni doping and their heterojunction with nâ€"ZnO. Applied Surface Science, 2022, 590, 153047.	6.1	14
6	Controlling electrical and optical properties of wurtzite Cd<i>x</i>Zn1<i>â^'x</i>O with high Cd contents via native defects manipulation by low-temperature annealing. Journal of Applied Physics, 2022, 131, .	2.5	1
7	Optoelectronic properties and doping of magnetron sputtered highly mismatched ZnO1-xTex alloy thin films. Journal of Alloys and Compounds, 2021, 852, 156950.	5.5	4
8	Effects of oxygen flow ratio and thermal annealing on defect evolution of aluminum doped zinc oxide thin films by reactive DC magnetron sputtering. Journal of Physics Condensed Matter, 2021, 33, 465703.	1.8	6
9	Effects of free carriers on the optical properties of high mobility transition metal doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>In</mml:mi><mml:mn>2</mml:mn></mm mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> transparent conductors. Physical Review Materials, 2021, 5, .	2.4	7
10	Band alignment of wide bandgap NiO/MoO3 and NiO/WO3 p-n heterojunctions studied by high-resolution X-ray photoelectron spectroscopy. Journal of Alloys and Compounds, 2021, 876, 160136.	5.5	13
11	Conduction band modifications by d states in vanadium doped CdO. Journal of Alloys and Compounds, 2020, 822, 153567.	5.5	6
12	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
13	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
14	Controlling the p-Type Conductivity and Composition Range for Bipolar Conduction in Ni<i>_x</i>Cd_{1â€"<i>x</i>}O Alloys by Acceptor Doping. Journal of Physical Chemistry C, 2020, 124, 20000-20009.	3.1	8
15	Wide-Gap <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Zn</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mm mathvariant="normal">O</mml:mi></mml:math> Alloy: A Transparent <i>p</i> -Type Oxide. Physical Review Applied, 2020, 13, .	3.8	17
16	Room temperature sputtered Cu doped NiO1+Î´: p-type conductivity, stability of electrical properties and p-n heterojunction. Journal of Alloys and Compounds, 2020, 835, 155269.	5.5	18
17	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
18	Efficient <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> -type doping of sputter-deposited NiO thin films with Li, Ag, and Cu acceptors. Physical Review Materials, 2020, 4, .	2.4	19

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19	Stoichiometry Controlled Bipolar Conductivity in Nanocrystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Ni</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Cd</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>−</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>+</mml:mo><mml:mi>δ</mml:mi></mml:mrow></mml:msub></mml:math> Physical Review Applied, 2019, 11, .	4.6	19
20	ZnO1âˆ’xTex highly mismatched alloys beyond the dilute alloy limit: Synthesis and electronic band structure. Journal of Applied Physics, 2019, 125, 155702.	2.5	13
21	Effects of oxygen stoichiometry on the phase stability of sputter-deposited <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">d</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">Z</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>−</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mo>−</mml:mo><mml:mi>δ</mml:mi></mml:mrow></mml:msub></mml:math>	2.4	8
22	Room-Temperature-Synthesized High-Mobility Transparent Amorphous CdOâ€“Ga₂O₃ Alloys with Widely Tunable Electronic Bands. ACS Applied Materials & Interfaces, 2018, 10, 7239-7247.	8.0	24
23	Roomâ€Temperature Redâ€“Greenâ€“Blue Whisperingâ€Gallery Mode Lasing and Whiteâ€Light Emission from Cesium Lead Halide Perovskite (CsPbX₃, X = Cl, Br, I) Microstructures. Advanced Optical Materials, 2018, 6, 1700993.	7.3	47
24	Engineering Electronic Band Structure of Indiumâ€doped Cd 1âˆ’ x Mg x O Alloys for Solar Power Conversion Applications. Energy Technology, 2018, 6, 122-126.	3.8	5
25	Coherent nanoscale cobalt/cobalt oxide heterostructures embedded in porous carbon for the oxygen reduction reaction. RSC Advances, 2018, 8, 28625-28631.	3.6	32
26	Carbon-bonded, oxygen-deficient TiO2 nanotubes with hybridized phases for superior Na-ion storage. Chemical Engineering Journal, 2018, 350, 201-208.	12.7	70
27	High mobility transparent amorphous CdO-In2O3 alloy films synthesized at room temperature. Applied Physics Letters, 2017, 111, .	3.3	12
28	A comparative study on the electronic and optical properties of Sb2Se3 thin film. Semiconductors, 2017, 51, 1615-1624.	0.5	25
29	Defects and properties of cadmium oxide based transparent conductors. Journal of Applied Physics, 2016, 119, .	2.5	32
30	Effects of Free Carriers on the Optical Properties of Doped CdO for Full-Spectrum Photovoltaics. Physical Review Applied, 2016, 6, .	3.8	54
31	Atmospheric annealing effect on TiO₂/Sb₂S₃/P3HT heterojunction hybrid solar cell performance. RSC Advances, 2016, 6, 99282-99290.	3.6	28
32	Deep Ultraviolet to Near-Infrared Emission and Photoresponse in Layered N-Doped Graphene Quantum Dots. ACS Nano, 2014, 8, 6312-6320.	14.6	455
33	Low-temperature solution growth of textured zinc oxide films for light trapping enhancement in thin film silicon solar cells. RSC Advances, 2014, 4, 34669-34673.	3.6	8
34	Solution-processable graphene oxide as an insulator layer for metalâ€“insulatorâ€“semiconductor silicon solar cells. RSC Advances, 2013, 3, 17918.	3.6	13
35	Enhanced performance by incorporation of zinc oxide nanowire array for organic-inorganic hybrid solar cells. Applied Physics Letters, 2012, 100, .	3.3	43
36	Hybrid photovoltaic cells based on ZnO/Sb₂S₃/P3HT heterojunctions. Physica Status Solidi (B): Basic Research, 2012, 249, 627-633.	1.5	85

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37	Near-Ultraviolet Light-Emitting Devices Using Vertical ZnO Nanorod Arrays. Journal of Electronic Materials, 2012, 41, 853-856.	2.2	10
38	Rapid Microwave Synthesis of Porous TiO₂ Spheres and Their Applications in Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 10419-10425.	3.1	111
39	Tunable p-Type Conductivity and Transport Properties of AlN Nanowires via Mg Doping. ACS Nano, 2011, 5, 3591-3598.	14.6	47
40	Facile synthesis and electrochemical characterization of porous and dense TiO2 nanospheres for lithium-ion battery applications. Journal of Power Sources, 2011, 196, 6394-6399.	7.8	75
41	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
42	Synthesis and characterization of hard ternary AlMgB composite films prepared by sputter deposition. Thin Solid Films, 2010, 518, 5372-5377.	1.8	30
43	Arrays of Si cones prepared by ion beams: growth mechanisms. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 309-315.	1.8	9
44	Integrated Nanorods and Heterostructure Field Effect Transistors for Gas Sensing. Journal of Physical Chemistry C, 2010, 114, 7999-8004.	3.1	16
45	Hydrothermal synthesis of ordered single-crystalline rutile TiO2 nanorod arrays on different substrates. Applied Physics Letters, 2010, 96, .	3.3	97
46	Vertically Aligned ZnO Nanorod Arrays Sentisized with Gold Nanoparticles for Schottky Barrier Photovoltaic Cells. Journal of Physical Chemistry C, 2009, 113, 13433-13437.	3.1	174
47	Magnetic response of chiral carbon nanotori: The dependence of torus radius. Physica B: Condensed Matter, 2008, 403, 2884-2887.	2.7	21
48	Magnetic response of carbon nanotori: the importance of curvature and disorder. Journal of Physics Condensed Matter, 2008, 20, 015206.	1.8	23
49	ZEEMAN EFFECT ON THE ELECTRONIC STRUCTURE OF CARBON NANOTORI IN A STRONG MAGNETIC FIELD. International Journal of Modern Physics B, 2008, 22, 4845-4852.	2.0	5
50	Electronic structure of carbon nanotori: the roles of curvature, hybridization, and disorder. Journal of Physics Condensed Matter, 2006, 18, 4077-4084.	1.8	28
51	Electron transport in a toroidal carbon nanotube device. Physica B: Condensed Matter, 2005, 365, 109-113.	2.7	16
52	TUBE GEOMETRY EFFECTS ON QUANTUM TRANSPORT IN CARBON NANOTUBE ELECTRON RESONATORS. International Journal of Modern Physics B, 2005, 19, 3301-3307.	2.0	1