Chaoping Liu

List of Publications by Year
in descending order

23 papers	392 citations	687363 13 h-index	752698 20 g-index
23 all docs	23 docs citations	23 times ranked	522 citing authors

#	Article	IF	Citations
1	Effects of Free Carriers on the Optical Properties of Doped CdO for Full-Spectrum Photovoltaics. Physical Review Applied, 2016, 6, .	3.8	54
2	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
3	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
4	Defects and properties of cadmium oxide based transparent conductors. Journal of Applied Physics, 2016, 119, .	2.5	32
5	A comparative study on the electronic and optical properties of Sb2Se3 thin film. Semiconductors, 2017, 51, 1615-1624.	0.5	25
6	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
7	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> Alloys. Physical Review Applied, 2019, 11, .	4.6	19
8	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
9	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
10	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>−</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:math> Alloy: A Transparent p -Type Oxide. Physical Review Applied, 2020, 13, .	3.8	17
11	Integrated Nanorods and Heterostructure Field Effect Transistors for Gas Sensing. Journal of Physical Chemistry C, 2010, 114, 7999-8004.	3.1	16
12	ZnO1−xTex highly mismatched alloys beyond the dilute alloy limit: Synthesis and electronic band structure. Journal of Applied Physics, 2019, 125, 155702.	2.5	13
13	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
14	High mobility transparent amorphous CdO-In2O3 alloy films synthesized at room temperature. Applied Physics Letters, 2017, 111, .	3.3	12
15	Controlling the p-Type Conductivity and Composition Range for Bipolar Conduction in Ni_xCd_{1−x}O Alloys by Acceptor Doping. Journal of Physical Chemistry C, 2020, 124, 20000-20009.	3.1	8
16	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	2.4	8
17	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></mml:msub><mml:msub><mml:mi 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
18	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

#	Article	IF	Citations
19	Engineering Electronic Band Structure of Indiumâ€doped Cd 1â^' x Mg x O Alloys for Solar Power Conversion Applications. Energy Technology, 2018, 6, 122-126.	3.8	5
20	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
21	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
22	Controlling electrical and optical properties of wurtzite CdxZn1â^'xO with high Cd contents via native defects manipulation by low-temperature annealing. Journal of Applied Physics, 2022, 131, .	2.5	1
23	Sol-gel synthesis of highly transparent and conducting Cadmium Oxide. , 2019, , .		0