Yelong Wu

List of Publications by Year
in descending order

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54	1,108	623734	395702
papers	citations	14	33
		h-index	g-index

54	54	54	1686
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electronic properties and stability of M₂O₃ (MÂ=ÂAl, Ga, In) and alloy (M_xGa_{1â€x})₂O₃ in Î± and Î² phases: A theoretical study. Journal of the American Ceramic Society, 2022, 105, 4554-4563.	3.8	3
2	A novel laser scribing method combined with the thermal stress cleaving for the crystalline silicon solar cell separation in mass production. Solar Energy Materials and Solar Cells, 2022, 240, 111714.	6.2	6
3	Photoluminescence Properties and Energy Transfers in the Novel LiYMgWO₆: Dy³⁺, Tm³⁺. , 2022, 1, 025001.		3
4	Absolute surface energies of wurtzite (10 1Â¯1) surfaces and the instability of the cation-adsorbed surfaces of IIâ€“VI semiconductors. Applied Physics Letters, 2021, 119, 201603.	3.3	0
5	Double perovskite Ba2BiTaO6 as a promising p-type transparent conductive oxide: A first-principles defect study. Journal of Applied Physics, 2020, 127, .	2.5	7
6	Crystal structure and photoluminescence properties of blue-green-emitting Ca1â¯xSrxZr4(PO4)6: Eu2+ (0â‰¤xâ‰¤1) phosphors. Materials Research Bulletin, 2020, 125, 110781.	5.2	8
7	Defect levels in d-electron containing systems: Comparative study of CdTe using LDA and LDA + U. Journal of Semiconductors, 2020, 41, 102701.	3.7	1
8	Water adsorption behaviors of high index polar surfaces in ZnO. Applied Surface Science, 2019, 498, 143898.	6.1	8
9	Hybrid-functional calculations of electronic structure and phase stability of MO (M = Zn, Cd, Be, Mg,) Tj ETQq1 1 0.784314 rgBT /Ove 8507-8514.	3.6	9
10	Hole-Induced Spontaneous Mutual Annihilation of Dislocation Pairs. Journal of Physical Chemistry Letters, 2019, 10, 7421-7425.	4.6	0
11	Polarization properties of AlN (101Ì…0) and (112Ì…0) non-polar surfaces: maximally localized Wannier functions study. EPJ Applied Physics, 2019, 88, 10101.	0.7	0
12	Structural and optical properties of porous ZnO nanorods synthesized by a simple two-step method. Superlattices and Microstructures, 2019, 128, 30-36.	3.1	3
13	From the absolute surface energy to the stabilization mechanism of high index polar surface in wurtzite structure: The case of ZnO. Journal of Alloys and Compounds, 2019, 772, 482-488.	5.5	8
14	Optimization Design of a Multibusbar Structure: The Using of a Conductive Belt. International Journal of Photoenergy, 2018, 2018, 1-12.	2.5	3
15	The stabilization mechanism and size effect of nonpolar-to-polar crystallography facet tailored ZnO nano/micro rods via a top-down strategy. Physical Chemistry Chemical Physics, 2018, 20, 18455-18462.	2.8	3
16	Crystallography facet tailoring of carbon doped ZnO nanorods via selective etching. Applied Surface Science, 2017, 406, 186-191.	6.1	10
17	Adsorption behavior of formaldehyde on ZnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" overflow="scroll"><mml:mrow><mml:mrow><mml:mo		

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19	Tailoring the surface of ZnO nanorods into corrugated nanorods via a selective chemical etch method. Nanotechnology, 2016, 27, 295601.	2.6	12
20	Column-by-column observation of dislocation motion in CdTe: Dynamic scanning transmission electron microscopy. Applied Physics Letters, 2016, 109, .	3.3	6
21	First-principles study on native point defects of cubic cuprite Ag2O. Journal of Applied Physics, 2016, 120, .	2.5	8
22	A novel anion interstitial defect structure in zinc-blende materials: A first-principles study. Europhysics Letters, 2016, 114, 36001.	2.0	2
23	Interaction between phosphorene and the surface of a substrate. Materials Research Express, 2016, 3, 025013.	1.6	10
24	Ternary mixed crystal effects on interface optical phonon and electron-phonon coupling in zinc-blende GaN/AlxGa1â^'xN spherical quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 76, 164-168.	2.7	4
25	Spontaneous polarization and piezoelectric properties of AlN nanowires: Maximally localized Wannier functions analysis. Europhysics Letters, 2015, 111, 67003.	2.0	9
26	Effect of oxygen vacancy and zinc interstitial on the spontaneous polarization of wurtzite ZnO: maximally localized Wannier functions analysis. EPJ Applied Physics, 2015, 70, 20101.	0.7	1
27	Physics of grain boundaries in polycrystalline photovoltaic semiconductors. Journal of Applied Physics, 2015, 117, .	2.5	52
28	A template-free CVD route to synthesize hierarchical porous ZnO films. Superlattices and Microstructures, 2015, 88, 501-507.	3.1	21
29	LDA+U/GGA+U calculations of structural and electronic properties of CdTe: Dependence on the effective U parameter. Computational Materials Science, 2015, 98, 18-23.	3.0	25
30	Understanding Individual Defects in CdTe Solar Cells: From Atomic Structure to Electrical Activity. Microscopy and Microanalysis, 2014, 20, 518-519.	0.4	1
31	Theoretical study on electronic properties of MoS2 antidot lattices. Journal of Applied Physics, 2014, 116, .	2.5	12
32	Engineering Grain Boundaries in Cu₂ZnSnSe₄ for Better Cell Performance: A Firstâ€Principle Study. Advanced Energy Materials, 2014, 4, 1300712.	19.5	135
33	Grain-Boundary-Enhanced Carrier Collection in CdTe Solar Cells. Physical Review Letters, 2014, 112, 156103.	7.8	258
34	Sulfur dioxide molecule sensors based on zigzag graphene nanoribbons with and without Cr dopant. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 667-671.	2.1	38
35	Electronic properties of MoS ₂ sandwiched between graphene monolayers. Europhysics Letters, 2014, 106, 47003.	2.0	12
36	Column-by-Column Imaging of Dislocation Slip Processes in CdTe. Microscopy and Microanalysis, 2014, 20, 1054-1055.	0.4	1

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37	Influence of vacancy on spontaneous polarization of wurtzite AlNï¼š a maximally localized Wannierfunction study. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 167701.	0.5	0
38	Carrier Separation at Dislocation Pairs in CdTe. Physical Review Letters, 2013, 111, 096403.	7.8	51
39	From atomic structure to photovoltaic properties in CdTe solar cells. Ultramicroscopy, 2013, 134, 113-125.	1.9	80
40	The structure and properties of (aluminum, oxygen) defect complexes in silicon. Journal of Applied Physics, 2013, 114, 063520.	2.5	10
41	Defect segregation at grain boundary and its impact on photovoltaic performance of CuInSe2. Applied Physics Letters, 2013, 102, .	3.3	50
42	Sulfur dioxide adsorbed on graphene and heteroatom-doped graphene: a first-principles study. European Physical Journal B, 2013, 86, 1.	1.5	79
43	Electronic and structural properties of N-vacancy in AlN nanowires: A first-principles study. Chinese Physics B, 2012, 21, 087101.	1.4	8
44	Unusual nonlinear strain dependence of valence-band splitting in ZnO. Physical Review B, 2012, 86, .	3.2	11
45	Origin of charge separation in III-nitride nanowires under strain. Applied Physics Letters, 2011, 99, 262103.	3.3	6
46	Structural and Electronic Properties of the Adsorption of Oxygen on AlN (101Ì…0) and (112Ì…0) Surfaces: A First-Principles Study. Journal of Physical Chemistry C, 2011, 115, 1882-1886.	3.1	18
47	Theoretical study of the stabilization mechanisms of the different stable oxygen incorporated (101Â¯0) surface of III-nitrides. Journal of Applied Physics, 2010, 107, 043529.	2.5	4
48	Origin of the phase transition of AlN, GaN, and ZnO nanowires. Applied Physics Letters, 2009, 94, .	3.3	18
49	Stability of a planar defect structure of the wurtzite AlN<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn>10</mml:mn><mml:mover) Tj ETQq1 1 0.78	3.2	12
50	Density functional study. Physical Review B, 2009, 80, . Preparations of porous AlN particles from an aluminumâ€“magnesium alloy melt solution. Materials Letters, 2009, 63, 2205-2207.	2.6	3
51	Nanoporous AlN particle production from a solid-state metathesis reaction. Chinese Physics B, 2009, 18, 2925-2927.	1.4	5
52	Structural and electronic properties of [0001] AlN nanowires: A first-principles study. Journal of Applied Physics, 2008, 104, 084313.	2.5	20
53	Relaxation models of the (110) zinc-blende III-V semiconductor surfaces: Density functional study. Physical Review B, 2008, 78, .	3.2	13
54	First-Principles Investigation of Electronic Structure and Energy Level Scheme of Phosphors: The Lanthanide-Doped Sr2P2O7. ECS Journal of Solid State Science and Technology, 0, , .	1.8	1