Chong Li

List of Publications by Year
in descending order

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51 papers	1,673 citations	361388 20 h-index	289230 40 g-index
51 all docs	51 docs citations	51 times ranked	2240 citing authors

#	Article	IF	Citations
1	Ultrahigh Photocatalytic CO₂ Reduction Efficiency and Selectivity Manipulation by Singleâ€Tungstenâ€Atom Oxide at the Atomic Step of TiO₂. Advanced Materials, 2022, 34, e2109074.	21.0	107
2	Electric field induced spin resolved graphene pâ€“n junctions on magnetic Janus VSeTe monolayer. Journal Physics D: Applied Physics, 2022, 55, 365303.	2.8	7
3	Strain engineering for C2N/Janus monochalcogenides van der Waals heterostructures: Potential applications for photocatalytic water splitting. Applied Surface Science, 2021, 536, 147845.	6.1	17
4	Co and Pt Dualâ€Singleâ€Atoms with Oxygenâ€Coordinated Coâ€“Oâ€“Pt Dimer Sites for Ultrahigh Photocatalytic Hydrogen Evolution Efficiency. Advanced Materials, 2021, 33, e2003327.	21.0	123
5	Uniaxial strain induced symmetry lowering and valleys drift in MoS₂. New Journal of Physics, 2021, 23, 053007.	2.9	3
6	Understanding the structural evolution of Au/WO2.7 compounds in hydrogen atmosphere by atomic scale in situ environmental TEM. Nano Research, 2020, 13, 3019-3024.	10.4	13
7	Magnetism arising from Mexican-hat-like band dispersion in the WSe2/SnS2 heterostructure via interlayer strain. Physical Chemistry Chemical Physics, 2020, 22, 21961-21967.	2.8	1
8	Spin-gapless and -gapped band structures of non-compensated bonding BN/Graphene bilayer. Journal Physics D: Applied Physics, 2020, 53, 505101.	2.8	10
9	Realization of asymmetric spin splitting Dirac cones in antiferromagnetic graphene/CrAs2/graphene heterotrilayer. Journal of Physics Condensed Matter, 2020, 32, 435503.	1.8	4
10	Reversible direct-indirect band transition in alloying TMDs heterostructures via band engineering. Journal of Physics Condensed Matter, 2019, 31, 435503.	1.8	7
11	Nanofriction oscillation driven by sublayer indirect contact of silicon tip sliding on few-layer graphene. AIP Advances, 2019, 9, 055023.	1.3	0
12	Ferromagnetic, antiferromagnetic, and Peierls distortion states in IVA-VA nanoribbons. Applied Physics Letters, 2019, 115, .	3.3	1
13	Ultrahigh Photocatalytic Rate at a Singleâ€Metalâ€Atomâ€Oxide. Advanced Materials, 2019, 31, e1903491.	21.0	53
14	Anderson Localization in 2D Amorphous MoO_{3â€x} Monolayers for Electrochemical Ammonia Synthesis. ChemCatChem, 2019, 11, 5412-5416.	3.7	37
15	A type-II C₂N/Î±-Te van der Waals heterojunction with improved optical properties by external perturbation. Physical Chemistry Chemical Physics, 2019, 21, 21753-21760.	2.8	20
16	Evenâ€“odd oscillation of bandgaps in GeP₃ nanoribbons and a tunable 1D lateral homogenous heterojunction. Physical Chemistry Chemical Physics, 2019, 21, 275-280.	2.8	6
17	Band gap and band alignment prediction of nitride-based semiconductors using machine learning. Journal of Materials Chemistry C, 2019, 7, 3238-3245.	5.5	48
18	Strong Valence Electrons Dependent and Logical Relations of Elemental Impurities in 2D Binary Semiconductor: a Case of GeP3 Monolayer from Ab Initio Studies. Nanoscale Research Letters, 2019, 14, 307.	5.7	2

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19	Activation of MoS₂ Basal Planes for Hydrogen Evolution by Zinc. Angewandte Chemie - International Edition, 2019, 58, 2029-2033.	13.8	208
20	Activation of MoS₂ Basal Planes for Hydrogen Evolution by Zinc. Angewandte Chemie, 2019, 131, 2051-2055.	2.0	29
21	Two-dimensional amorphous heterostructures of Ag/a-WO3- for high-efficiency photocatalytic performance. Applied Catalysis B: Environmental, 2019, 245, 648-655.	20.2	69
22	Unusual pressure-induced electronic structure evolution in organometal halide perovskite predicted from first-principles. Organic Electronics, 2019, 67, 89-94.	2.6	23
23	Formation of a large gap quantum spin Hall phase in a 2D trigonal lattice with three p-orbitals. Nanoscale, 2018, 10, 5496-5502.	5.6	13
24	Interlayer coupling and external electric field tunable electronic properties of a 2D type-I Î±-tellurene/MoS₂ heterostructure. Journal of Materials Chemistry C, 2018, 6, 10256-10262.	5.5	56
25	Asymmetric quantum confinement-induced energetically and spatially splitting Dirac rings in graphene/phosphorene/graphene heterostructure. Carbon, 2018, 140, 164-170.	10.3	25
26	Creation of half-metallic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>f</mml:mi></mml:math> -orbital Dirac fermion with superlight elements in orbital-designed molecular lattice. Physical Review B, 2017, 96, .	3.2	10
27	Dilute Magnetic Semiconductor and Half-Metal Behaviors in 3d Transition-Metal Doped Black and Blue Phosphorenes: A First-Principles Study. Nanoscale Research Letters, 2016, 11, 77.	5.7	99
28	Tuning the Nanofriction Between Two Graphene Layers by External Electric Fields: A Density Functional Theory Study. Tribology Letters, 2016, 61, 1.	2.6	15
29	Structural, electronic and magnetic properties of 3d transition metals embedded graphene-like carbon nitride sheet: A DFT + U study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1373-1377.	2.1	20
30	Electronic and magnetic properties of N-N split substitution in GaAs: A hybrid density functional study. AIP Advances, 2015, 5, 077187.	1.3	3
31	Anomalous doping effect in black phosphorene using first-principles calculations. Physical Chemistry Chemical Physics, 2015, 17, 16351-16358.	2.8	109
32	Magnetic evolution and anomalous Wilson transition in diagonal phosphorene nanoribbons driven by strain. Nanotechnology, 2015, 26, 295402.	2.6	5
33	Catalytic activities of noble metal atoms on WO3 (001): nitric oxide adsorption. Nanoscale Research Letters, 2015, 10, 60.	5.7	8
34	Sub-surface alloying largely influences graphene nucleation and growth over transition metal substrates. Physical Chemistry Chemical Physics, 2015, 17, 30270-30278.	2.8	4
35	Electronic and optical properties of quaternary alloy GaAsBiN lattice-matched to GaAs. Optics Express, 2014, 22, 30633.	3.4	15
36	Intrinsic spin dependent and ferromagnetic stability on edge saturated zigzag graphene-like carbon-nitride nanoribbons. Applied Physics Letters, 2014, 104, 172111.	3.3	8

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37	Magnetism of zigzag edge phosphorene nanoribbons. Applied Physics Letters, 2014, 105, .	3.3	97
38	Au-Decorated Silicene: Design of a High-Activity Catalyst toward CO Oxidation. Journal of Physical Chemistry C, 2013, 117, 483-488.	3.1	63
39	Selection rule of preferred doping site for n-type oxides. Applied Physics Letters, 2012, 100, 262109.	3.3	10
40	Strong quantum size effects in transition metal silicide ultrathin films: Critical role of Fermi surface nesting. Journal of Applied Physics, 2012, 112, 104313.	2.5	3
41	Influence of indium cluster on the high and constant background electron density in ternary In_xGa_{1â^'x}N alloys. Applied Physics Letters, 2012, 101, 062102.	3.3	8
42	Self-Assembled Ti Quantum Wire on Zigzag Graphene Nanoribbons with One Edge Saturated. Journal of Physical Chemistry C, 2012, 116, 24824-24828.	3.1	2
43	High Capacity Hydrogen Storage in Ca Decorated Graphyne: A First-Principles Study. Journal of Physical Chemistry C, 2011, 115, 23221-23225.	3.1	210
44	Kinetic and relativistic effects on the surface alloy formation of submonolayer Au adsorbed on Si(111)-3Ã—3-Pb surface. Applied Physics Letters, 2011, 99, 211912.	3.3	0
45	Surface alloy formation of noble adatoms adsorbed on Si(111)-sqrt {3}imes sqrt {3} â€“Pb surface: a first-principles study. Journal of Physics Condensed Matter, 2011, 23, 265001.	1.8	3
46	Stability and electronic properties of the O-terminated Cu2O(111) surfaces: First-principles investigation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2994-2998.	2.1	36
47	Strong Quantum Size Effects in Pb(111) Thin Films Mediated by Anomalous Friedel Oscillations. Physical Review Letters, 2010, 105, 066101.	7.8	35
48	FIRST-PRINCIPLES INVESTIGATION OF STRUCTURAL AND ELECTRONIC PROPERTIES OF THE RECONSTRUCTED ZnO$(000ar 1)$ and $(0001) (sqrt{3}imessqrt{3})-R30^circ$ SURFACES. Modern Physics Letters B, 2010, 24, 2803-2814.	1.9	1
49	Unusual titanium diffusion on a diamond(100) 2Ã—1 surface at submonolayer coverage. Europhysics Letters, 2010, 92, 46005.	2.0	0
50	First-principles investigation of mechanical and electronic properties of MNNi3 (M=Zn, Mg, or Cd). Journal of Applied Physics, 2009, 105, 123921.	2.5	26
51	Magnetism of zigzag edge phosphorene nanoribbons. , 0, .		1