

Chong Li

List of Publications by Year in descending order

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Version: 2024-02-01

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	High Capacity Hydrogen Storage in Ca Decorated Graphyne: A First-Principles Study. Journal of Physical Chemistry C, 2011, 115, 23221-23225.	3.1	210
2	Activation of MoS ₂ Basal Planes for Hydrogen Evolution by Zinc. Angewandte Chemie - International Edition, 2019, 58, 2029-2033.	13.8	208
3	Co and Pt Dual-Atom Sites with Oxygen-Coordinated Co-O-Pt Dimer Sites for Ultrahigh Photocatalytic Hydrogen Evolution Efficiency. Advanced Materials, 2021, 33, e2003327.	21.0	123
4	Anomalous doping effect in black phosphorene using first-principles calculations. Physical Chemistry Chemical Physics, 2015, 17, 16351-16358.	2.8	109
5	Ultrahigh Photocatalytic CO ₂ Reduction Efficiency and Selectivity Manipulation by Single Tungsten Atom Oxide at the Atomic Step of TiO ₂ . Advanced Materials, 2022, 34, e2109074.	21.0	107
6	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
7	Magnetism of zigzag edge phosphorene nanoribbons. Applied Physics Letters, 2014, 105, .	3.3	97
8	Two-dimensional amorphous heterostructures of Ag/a-WO ₃ for high-efficiency photocatalytic performance. Applied Catalysis B: Environmental, 2019, 245, 648-655.	20.2	69
9	Au-Decorated Silicene: Design of a High-Activity Catalyst toward CO Oxidation. Journal of Physical Chemistry C, 2013, 117, 483-488.	3.1	63
10	Interlayer coupling and external electric field tunable electronic properties of a 2D type-I In ₂ Te/MoS ₂ heterostructure. Journal of Materials Chemistry C, 2018, 6, 10256-10262.	5.5	56
11	Ultrahigh Photocatalytic Rate at a Single Metal Atom Oxide. Advanced Materials, 2019, 31, e1903491.	21.0	53
12	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
13	Anderson Localization in 2D Amorphous MoO ₃ Monolayers for Electrochemical Ammonia Synthesis. ChemCatChem, 2019, 11, 5412-5416.	3.7	37
14	Stability and electronic properties of the O-terminated Cu ₂ O(111) surfaces: First-principles investigation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2994-2998.	2.1	36
15	Strong Quantum Size Effects in Pb(111) Thin Films Mediated by Anomalous Friedel Oscillations. Physical Review Letters, 2010, 105, 066101.	7.8	35
16	Activation of MoS ₂ Basal Planes for Hydrogen Evolution by Zinc. Angewandte Chemie, 2019, 131, 2051-2055.	2.0	29
17	First-principles investigation of mechanical and electronic properties of MNi ₃ (M=Zn, Mg, or Cd). Journal of Applied Physics, 2009, 105, 123921.	2.5	26
18	Asymmetric quantum confinement-induced energetically and spatially splitting Dirac rings in graphene/phosphorene/graphene heterostructure. Carbon, 2018, 140, 164-170.	10.3	25

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19	Unusual pressure-induced electronic structure evolution in organometal halide perovskite predicted from first-principles. <i>Organic Electronics</i> , 2019, 67, 89-94.	2.6	23
20	Structural, electronic and magnetic properties of 3d transition metals embedded graphene-like carbon nitride sheet: A DFT + U study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 1373-1377.	2.1	20
21	A type-II $C_{2v}N/\sqrt{2}$ -Te van der Waals heterojunction with improved optical properties by external perturbation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21753-21760.	2.8	20
22	Strain engineering for C_2N /Janus monochalcogenides van der Waals heterostructures: Potential applications for photocatalytic water splitting. <i>Applied Surface Science</i> , 2021, 536, 147845.	6.1	17
23	Electronic and optical properties of quaternary alloy GaAsBiN lattice-matched to GaAs. <i>Optics Express</i> , 2014, 22, 30633.	3.4	15
24	Tuning the Nanofriction Between Two Graphene Layers by External Electric Fields: A Density Functional Theory Study. <i>Tribology Letters</i> , 2016, 61, 1.	2.6	15
25	Formation of a large gap quantum spin Hall phase in a 2D trigonal lattice with three p-orbitals. <i>Nanoscale</i> , 2018, 10, 5496-5502.	5.6	13
26	Understanding the structural evolution of Au/WO _{2.7} compounds in hydrogen atmosphere by atomic scale in situ environmental TEM. <i>Nano Research</i> , 2020, 13, 3019-3024.	10.4	13
27	Selection rule of preferred doping site for n-type oxides. <i>Applied Physics Letters</i> , 2012, 100, 262109.	3.3	10
28	Creation of half-metallic π -orbital Dirac fermion with superlight elements in orbital-designed molecular lattice. <i>Physical Review B</i> , 2017, 96, .	3.2	10
29	Spin-gapless and -gapped band structures of non-compensated bonding BN/Graphene bilayer. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 505101.	2.8	10
30	Influence of indium cluster on the high and constant background electron density in ternary $In_xGa_{1-x}N$ alloys. <i>Applied Physics Letters</i> , 2012, 101, 062102.	3.3	8
31	Intrinsic spin dependent and ferromagnetic stability on edge saturated zigzag graphene-like carbon-nitride nanoribbons. <i>Applied Physics Letters</i> , 2014, 104, 172111.	3.3	8
32	Catalytic activities of noble metal atoms on WO ₃ (001): nitric oxide adsorption. <i>Nanoscale Research Letters</i> , 2015, 10, 60.	5.7	8
33	Reversible direct-indirect band transition in alloying TMDs heterostructures via band engineering. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 435503.	1.8	7
34	Electric field induced spin resolved graphene π junctions on magnetic Janus VSeTe monolayer. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 365303.	2.8	7
35	Even-odd oscillation of bandgaps in GeP ₃ nanoribbons and a tunable 1D lateral homogenous heterojunction. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 275-280.	2.8	6
36	Magnetic evolution and anomalous Wilson transition in diagonal phosphorene nanoribbons driven by strain. <i>Nanotechnology</i> , 2015, 26, 295402.	2.6	5

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37	Sub-surface alloying largely influences graphene nucleation and growth over transition metal substrates. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30270-30278.	2.8	4
38	Realization of asymmetric spin splitting Dirac cones in antiferromagnetic graphene/CrAs ₂ /graphene heterotrilaier. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 435503.	1.8	4
39	Surface alloy formation of noble adatoms adsorbed on Si(111)-sqrt {3}imes sqrt {3} â€Pb surface: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 265001.	1.8	3
40	Strong quantum size effects in transition metal silicide ultrathin films: Critical role of Fermi surface nesting. <i>Journal of Applied Physics</i> , 2012, 112, 104313.	2.5	3
41	Electronic and magnetic properties of N-N split substitution in GaAs: A hybrid density functional study. <i>AIP Advances</i> , 2015, 5, 077187.	1.3	3
42	Uniaxial strain induced symmetry lowering and valleys drift in MoS ₂ . <i>New Journal of Physics</i> , 2021, 23, 053007.	2.9	3
43	Self-Assembled Ti Quantum Wire on Zigzag Graphene Nanoribbons with One Edge Saturated. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24824-24828.	3.1	2
44	Strong Valence Electrons Dependent and Logical Relations of Elemental Impurities in 2D Binary Semiconductor: a Case of GeP ₃ Monolayer from Ab Initio Studies. <i>Nanoscale Research Letters</i> , 2019, 14, 307.	5.7	2
45	FIRST-PRINCIPLES INVESTIGATION OF STRUCTURAL AND ELECTRONIC PROPERTIES OF THE RECONSTRUCTED ZnO\$(000ar 1)\$ and \$(0001) (\sqrt{3}\imes\sqrt{3})\text{-}R30^{\text{circ}}\$ SURFACES. <i>Modern Physics Letters B</i> , 2010, 24, 2803-2814.	1.9	1
46	Ferromagnetic, antiferromagnetic, and Peierls distortion states in IVA-VA nanoribbons. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	1
47	Magnetism arising from Mexican-hat-like band dispersion in the WSe ₂ /SnS ₂ heterostructure via interlayer strain. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21961-21967.	2.8	1
48	Magnetism of zigzag edge phosphorene nanoribbons. , 0, .		1
49	Unusual titanium diffusion on a diamond(100) 2Å–1 surface at submonolayer coverage. <i>Europhysics Letters</i> , 2010, 92, 46005.	2.0	0
50	Kinetic and relativistic effects on the surface alloy formation of submonolayer Au adsorbed on Si(111)-3Å–3-Pb surface. <i>Applied Physics Letters</i> , 2011, 99, 211912.	3.3	0
51	Nanofriction oscillation driven by sublayer indirect contact of silicon tip sliding on few-layer graphene. <i>AIP Advances</i> , 2019, 9, 055023.	1.3	0