Yanyu Liu

List of Publications by Year
in descending order

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33 papers	2,043 citations	471509 17 h-index	395702 33 g-index
33 all docs	33 docs citations	33 times ranked	3318 citing authors

#	Article	IF	Citations
1	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct pâ€“n Homojunctions for Enhanced Photocatalytic Hydrogen Production. Advanced Functional Materials, 2016, 26, 6822-6829.	14.9	583
2	Photoassisted Construction of Holey Defective gâ€C₃N₄ Photocatalysts for Efficient Visibleâ€Lightâ€Driven H₂O₂ Production. Small, 2018, 14, 1703142.	10.0	353
3	Unveiling the Activity Origin of Electrocatalytic Oxygen Evolution over Isolated Ni Atoms Supported on a Nâ€Doped Carbon Matrix. Advanced Materials, 2019, 31, e1904548.	21.0	256
4	Band Gap Engineering of SnO₂ by Epitaxial Strain: Experimental and Theoretical Investigations. Journal of Physical Chemistry C, 2014, 118, 6448-6453.	3.1	165
5	Design of PdAu alloy plasmonic nanoparticles for improved catalytic performance in CO2 reduction with visible light irradiation. Nano Energy, 2016, 26, 398-404.	16.0	133
6	Manipulation of current rectification in van der Waals ferroionic CuInP2S6. Nature Communications, 2022, 13, 574.	12.8	60
7	Thicknessâ€Dependent Inâ€Plane Polarization and Structural Phase Transition in van der Waals Ferroelectric CuInP₂S₆. Small, 2020, 16, e1904529.	10.0	50
8	Density functional study on the hole doping of single-layer SnS₂ with metal element X (X) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.8	43
9	Open hollow Coâ€“Pt clusters embedded in carbon nanoflake arrays for highly efficient alkaline water splitting. Journal of Materials Chemistry A, 2018, 6, 20214-20223.	10.3	42
10	Tailoring Band Structure of TiO₂ To Enhance Photoelectrochemical Activity by Codoping S and Mg. Journal of Physical Chemistry C, 2015, 119, 11557-11562.	3.1	34
11	Tunable Photocatalytic HER Activity of Single-Layered TiO₂ Nanosheets with Transition-Metal Doping and Biaxial Strain. Journal of Physical Chemistry C, 2019, 123, 526-533.	3.1	34
12	Activated HER performance of defected single layered TiO2 nanosheet via transition metal doping. International Journal of Hydrogen Energy, 2020, 45, 2681-2688.	7.1	27
13	Electronic structure and optical properties of Fe-doped SnS₂ from first-principle calculations. RSC Advances, 2016, 6, 3480-3486.	3.6	24
14	Tunable electronic and magnetic properties of antimonene system via Fe doping and defect complex: A first-principles perspective. Applied Surface Science, 2018, 448, 281-287.	6.1	24
15	Built-In Electric Field Hindering Photogenerated Carrier Recombination in Polar Bilayer SnO/BiOX (X =) Tj ETQq1 1 0.784314 rgBT /Over	3.1	22
16	Bifunctional Photoelectrode Driven by Charged Domain Walls in Ferroelectric Bi₂WO₆. ACS Applied Energy Materials, 2020, 3, 4149-4154.	5.1	19
17	Room-temperature ferromagnetism and optical properties in Mg-doped TiO2: A density functional theory investigation. Journal of Applied Physics, 2014, 115, 123913.	2.5	18
18	Electronic structure and optical properties of Ta-doped and (Ta, N)-codoped SrTiO3 from hybrid functional calculations. Journal of Applied Physics, 2017, 121, .	2.5	18

#	Article	IF	Citations
19	Atomic reconfiguration among tri-state transition at ferroelectric/antiferroelectric phase boundaries in Pb(Zr,Ti)O3. Nature Communications, 2022, 13, 1390.	12.8	17
20	Magnetic and optical properties of Al-doped anatase TiO2 (101) surface from density functional theory. Journal of Magnetism and Magnetic Materials, 2016, 404, 7-13.	2.3	14
21	Tunable HER activity from doping and strain strategies for Î²-Sb monolayer: DFT calculations. Computational Materials Science, 2020, 185, 109966.	3.0	14
22	Tuning of magnetism of SrTiO3 by site-specific doping. Materials Chemistry and Physics, 2015, 160, 80-86.	4.0	12
23	Coexistence of Magnetism and Ferroelectricity in 3d Transition-Metal-Doped SnTe Monolayer. Journal of Physical Chemistry C, 2019, 123, 28919-28924.	3.1	12
24	Electronic structure and optical properties of SrTiO3 codoped by W/Mo on different cationic sites with C/N from hybrid functional calculations. Computational Materials Science, 2018, 146, 150-157.	3.0	11
25	Unexpected ferromagnetism in n-type polycrystalline K-doped ZnO films prepared by RF-magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2015, 26, 8451-8455.	2.2	9
26	Unveiling the Origin of Catalytic Sites of Pt Nanoparticles Decorated on Oxygen-Deficient Vanadium-Doped Cobalt Hydroxide Nanosheet for Hybrid Sodiumâ€“Air Batteries. ACS Applied Energy Materials, 2020, 3, 7464-7473.	5.1	9
27	The electronic structure and room temperature ferromagnetism in non-magnetic element X (Xâ€¯=â€¯Al, Mg) Tj ETQq1 1 0.784314 rg 102-108.	3.0	8
28	First-principles study of electronic structure, magnetic and optical properties of Mg-doped CeO2 (1â€¯1â€¯1) surface. Computational Materials Science, 2018, 155, 325-330.	3.0	7
29	Non-monotonic thickness dependence of Curie temperature and ferroelectricity in two-dimensional SnTe film. Applied Physics Letters, 2018, 113, .	3.3	7
30	Tuning the ferromagnetism of a single layered titanium dioxide nanosheet with hole doping and uniaxial strain. Journal of Physics Condensed Matter, 2018, 30, 305804.	1.8	6
31	Electronic and Optical Properties of TiO₂ Solid-Solution Nanosheets for Bandgap Engineering: A Hybrid Functional Study. Journal of Physical Chemistry C, 2017, 121, 18683-18691.	3.1	5
32	Enhanced domain wall conductivity in photosensitive ferroelectrics Sn2P2S6 with full-visible-spectrum absorption. Science China Materials, 2022, 65, 1049-1056.	6.3	4
33	Firstâ€principles study of spâ€electron halfâ€metallic superlattices in wurtzite structure. Physica Status Solidi (B): Basic Research, 2014, 251, 1076-1082.	1.5	3