

# Yanyu Liu

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Enhanced domain wall conductivity in photosensitive ferroelectrics Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> with full-visible-spectrum absorption. <i>Science China Materials</i> , 2022, 65, 1049-1056.	6.3	4
2	Manipulation of current rectification in van der Waals ferroionic CuInP <sub>2</sub> S <sub>6</sub> . <i>Nature Communications</i> , 2022, 13, 574.	12.8	60
3	Atomic reconfiguration among tri-state transition at ferroelectric/antiferroelectric phase boundaries in Pb(Zr,Ti)O <sub>3</sub> . <i>Nature Communications</i> , 2022, 13, 1390.	12.8	17
4	Activated HER performance of defected single layered TiO <sub>2</sub> nanosheet via transition metal doping. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2681-2688.	7.1	27
5	Thickness-Dependent In-Plane Polarization and Structural Phase Transition in van der Waals Ferroelectric CuInP <sub>2</sub> S <sub>6</sub> . <i>Small</i> , 2020, 16, e1904529.	10.0	50
6	Tunable HER activity from doping and strain strategies for $\Gamma^2$ -Sb monolayer: DFT calculations. <i>Computational Materials Science</i> , 2020, 185, 109966.	3.0	14
7	Unveiling the Origin of Catalytic Sites of Pt Nanoparticles Decorated on Oxygen-Deficient Vanadium-Doped Cobalt Hydroxide Nanosheet for Hybrid Sodium-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7464-7473.	5.1	9
8	Bifunctional Photoelectrode Driven by Charged Domain Walls in Ferroelectric Bi <sub>2</sub> WO <sub>6</sub> . <i>ACS Applied Energy Materials</i> , 2020, 3, 4149-4154.	5.1	19
9	Built-In Electric Field Hindering Photogenerated Carrier Recombination in Polar Bilayer SnO/BiOX (X =) Tj ETQq1 1 0.784314 rgBT /Ove	3.1	22
10	Unveiling the Activity Origin of Electrocatalytic Oxygen Evolution over Isolated Ni Atoms Supported on a N-Doped Carbon Matrix. <i>Advanced Materials</i> , 2019, 31, e1904548.	21.0	256
11	Coexistence of Magnetism and Ferroelectricity in 3d Transition-Metal-Doped SnTe Monolayer. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28919-28924.	3.1	12
12	Tunable Photocatalytic HER Activity of Single-Layered TiO <sub>2</sub> Nanosheets with Transition-Metal Doping and Biaxial Strain. <i>Journal of Physical Chemistry C</i> , 2019, 123, 526-533.	3.1	34
13	Tunable electronic and magnetic properties of antimonene system via Fe doping and defect complex: A first-principles perspective. <i>Applied Surface Science</i> , 2018, 448, 281-287.	6.1	24
14	Photoassisted Construction of Holey Defective g-C <sub>3</sub> N <sub>4</sub> Photocatalysts for Efficient Visible-Light-Driven H <sub>2</sub> O <sub>2</sub> Production. <i>Small</i> , 2018, 14, 1703142.	10.0	353
15	The electronic structure and room temperature ferromagnetism in non-magnetic element X (X = Al, Mg) Tj ETQq1 1 0.784314 rgBT /Ove	3.0	8
16	Electronic structure and optical properties of SrTiO <sub>3</sub> codoped by W/Mo on different cationic sites with C/N from hybrid functional calculations. <i>Computational Materials Science</i> , 2018, 146, 150-157.	3.0	11
17	Open hollow Co-Pt clusters embedded in carbon nanoflake arrays for highly efficient alkaline water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20214-20223.	10.3	42
18	First-principles study of electronic structure, magnetic and optical properties of Mg-doped CeO <sub>2</sub> (111) surface. <i>Computational Materials Science</i> , 2018, 155, 325-330.	3.0	7

#	ARTICLE	IF	CITATIONS
19	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
20	Non-monotonic thickness dependence of Curie temperature and ferroelectricity in two-dimensional SnTe film. Applied Physics Letters, 2018, 113, .	3.3	7
21	Electronic structure and optical properties of Ta-doped and (Ta, N)-codoped SrTiO <sub>3</sub> from hybrid functional calculations. Journal of Applied Physics, 2017, 121, .	2.5	18
22	Electronic and Optical Properties of TiO <sub>2</sub> Solid-Solution Nanosheets for Bandgap Engineering: A Hybrid Functional Study. Journal of Physical Chemistry C, 2017, 121, 18683-18691.	3.1	5
23	In Situ Bond Modulation of Graphitic Carbon Nitride to Construct p-n Homojunctions for Enhanced Photocatalytic Hydrogen Production. Advanced Functional Materials, 2016, 26, 6822-6829.	14.9	583
24	Design of PdAu alloy plasmonic nanoparticles for improved catalytic performance in CO <sub>2</sub> reduction with visible light irradiation. Nano Energy, 2016, 26, 398-404.	16.0	133
25	Density functional study on the hole doping of single-layer SnS <sub>2</sub> with metal element X (X) Tj ETQq1 1 0.784314 rgBT /Over 2.8 43	2.8	43
26	Magnetic and optical properties of Al-doped anatase TiO <sub>2</sub> (101) surface from density functional theory. Journal of Magnetism and Magnetic Materials, 2016, 404, 7-13.	2.3	14
27	Electronic structure and optical properties of Fe-doped SnS <sub>2</sub> from first-principle calculations. RSC Advances, 2016, 6, 3480-3486.	3.6	24
28	Tuning of magnetism of SrTiO <sub>3</sub> by site-specific doping. Materials Chemistry and Physics, 2015, 160, 80-86.	4.0	12
29	Tailoring Band Structure of TiO <sub>2</sub> To Enhance Photoelectrochemical Activity by Codoping S and Mg. Journal of Physical Chemistry C, 2015, 119, 11557-11562.	3.1	34
30	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
31	Band Gap Engineering of SnO <sub>2</sub> by Epitaxial Strain: Experimental and Theoretical Investigations. Journal of Physical Chemistry C, 2014, 118, 6448-6453.	3.1	165
32	First-principles study of spin-electron half-metallic superlattices in wurtzite structure. Physica Status Solidi (B): Basic Research, 2014, 251, 1076-1082.	1.5	3
33	Room-temperature ferromagnetism and optical properties in Mg-doped TiO <sub>2</sub> : A density functional theory investigation. Journal of Applied Physics, 2014, 115, 123913.	2.5	18