Tong Yang

List of Publications by Year
in descending order

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32 papers	1,759 citations	430874 18 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	2533 citing authors

#	Article	IF	Citations
1	Copper Single Atoms Anchored in Porous Nitrogen-Doped Carbon as Efficient pH-Universal Catalysts for the Nitrogen Reduction Reaction. ACS Catalysis, 2019, 9, 10166-10173.	11.2	284
2	Efficient Hydrogen Evolution of Oxidized Niâ€N₃ Defective Sites for Alkaline Freshwater and Seawater Electrolysis. Advanced Materials, 2021, 33, e2003846.	21.0	198
3	Synergizing Mo Single Atoms and Mo₂C Nanoparticles on CNTs Synchronizes Selectivity and Activity of Electrocatalytic N₂ Reduction to Ammonia. Advanced Materials, 2020, 32, e2002177.	21.0	190
4	High-throughput screening of transition metal single atom catalysts anchored on molybdenum disulfide for nitrogen fixation. Nano Energy, 2020, 68, 104304.	16.0	136
5	Porous NiCo2S4/FeOOH nanowire arrays with rich sulfide/hydroxide interfaces enable high OER activity. Nano Energy, 2020, 78, 105230.	16.0	121
6	Negative Pressure Pyrolysis Induced Highly Accessible Single Sites Dispersed on 3D Graphene Frameworks for Enhanced Oxygen Reduction. Angewandte Chemie - International Edition, 2020, 59, 20465-20469.	13.8	104
7	Atomically Thin 2D Transition Metal Oxides: Structural Reconstruction, Interaction with Substrates, and Potential Applications. Advanced Materials Interfaces, 2019, 6, 1801160.	3.7	100
8	Identification of Facetâ€Governing Reactivity in Hematite for Oxygen Evolution. Advanced Materials, 2018, 30, e1804341.	21.0	96
9	High-Throughput Computational Screening of Vertical 2D van der Waals Heterostructures for High-efficiency Excitonic Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 32142-32150.	8.0	75
10	Stimulated Electrocatalytic Hydrogen Evolution Activity of MOFâ€Derived MoS₂ Basal Domains via Charge Injection through Surface Functionalization and Heteroatom Doping. Advanced Science, 2019, 6, 1900140.	11.2	73
11	The stability of aluminium oxide monolayer and its interface with two-dimensional materials. Scientific Reports, 2016, 6, 29221.	3.3	59
12	High-Throughput Identification of Exfoliable Two-Dimensional Materials with Active Basal Planes for Hydrogen Evolution. ACS Energy Letters, 2020, 5, 2313-2321.	17.4	54
13	Quasiâ€Paired Pt Atomic Sites on Mo₂C Promoting Selective Fourâ€Electron Oxygen Reduction. Advanced Science, 2021, 8, e2101344.	11.2	29
14	Molecular Beam Epitaxy of Two-Dimensional Vanadium-Molybdenum Diselenide Alloys. ACS Nano, 2020, 14, 11140-11149.	14.6	28
15	Interfacial Interaction between HfO2 and MoS2: From Thin Films to Monolayer. Journal of Physical Chemistry C, 2016, 120, 9804-9810.	3.1	27
16	Realization of a Buckled Antimonene Monolayer on Ag(111) via Surface Engineering. Journal of Physical Chemistry Letters, 2020, 11, 8976-8982.	4.6	23
17	Hydrogen Evolution Catalyzed by a Molybdenum Sulfide Two-Dimensional Structure with Active Basal Planes. ACS Applied Materials & Interfaces, 2018, 10, 22042-22049.	8.0	22
18	High-Throughput Computational Discovery and Intelligent Design of Two-Dimensional Functional Materials for Various Applications. Accounts of Materials Research, 2022, 3, 572-583.	11.7	21

#	Article	IF	Citations
19	Tuning Contact Barrier Height between Metals and MoS₂ Monolayer through Interface Engineering. Advanced Materials Interfaces, 2017, 4, 1700035.	3.7	19
20	Negative Pressure Pyrolysis Induced Highly Accessible Single Sites Dispersed on 3D Graphene Frameworks for Enhanced Oxygen Reduction. Angewandte Chemie, 2020, 132, 20645-20649.	2.0	16
21	Precise Layerâ€Dependent Electronic Structure of MBEâ€Grown PtSe₂. Advanced Electronic Materials, 2021, 7, 2100559.	5.1	16
22	Ag₂S monolayer: an ultrasoft inorganic Lieb lattice. Nanoscale, 2021, 13, 14008-14015.	5.6	10
23	Formation of two-dimensional small polarons at the conducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaAl</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> interface. Physical Review B, 2019, 100, .	3.2	9
24	Bi-stable electronic states of cobalt phthalocyanine molecules on two-dimensional vanadium diselenide. Applied Materials Today, 2020, 18, 100535.	4.3	9
25	Experimental Realization of One-Dimensional Metal-Inorganic Chain: Goldâ€“Phosphorus Chain. , 2020, 2, 873-879.		9
26	Tunable Rashba spin-orbit coupling and its interplay with multiorbital effect and magnetic ordering at oxide interfaces. Physical Review B, 2021, 104, .	3.2	8
27	MBE-grown ultrathin PtTe₂ films and their layer-dependent electronic structures. Nanoscale, 2022, 14, 7650-7658.	5.6	7
28	Selective hydrogenation improves interface properties of high-k dielectrics on 2D semiconductors. Nano Research, 2022, 15, 4646-4652.	10.4	6
29	Phase stability of monolayer Si1â^'xGex alloys with a Dirac cone. Nanoscale, 2021, 13, 8607-8613.	5.6	3
30	Phase diagram and superlattice structures of monolayer phosphorus carbide (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 317 Td	2.4	3
31	Formation of magnetic anionic electrons by hole doping. Journal of Materials Chemistry C, 2022, 10, 7674-7679.	5.5	3
32	Ultrathin Transition Metal Oxide: Atomically Thin 2D Transition Metal Oxides: Structural Reconstruction, Interaction with Substrates, and Potential Applications (Adv. Mater. Interfaces) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 21	3.7	3