

Xin Gao

List of Publications by Year in descending order

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26
papers

3,811
citations

304743

22
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642732

23
g-index

26
all docs

26
docs citations

26
times ranked

3705
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold-Starting All-Solid-State Batteries from Room Temperature by Thermally Modulated Current Collector in Sub-Minute. <i>Advanced Materials</i> , 2022, 34, .	21.0	5
2	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. <i>Nano Letters</i> , 2021, 21, 2074-2080.	9.1	37
3	All-Solid-State Lithium-Sulfur Batteries Enhanced by Redox Mediators. <i>Journal of the American Chemical Society</i> , 2021, 143, 18188-18195.	13.7	66
4	Graphdiyne for crucial gas involved catalytic reactions in energy conversion applications. <i>Energy and Environmental Science</i> , 2020, 13, 1326-1346.	30.8	115
5	Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. <i>Nature Energy</i> , 2020, 5, 786-793.	39.5	168
6	Incorporating the Nanoscale Encapsulation Concept from Liquid Electrolytes into Solid-State Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2020, 20, 5496-5503.	9.1	30
7	Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity. <i>Advanced Functional Materials</i> , 2019, 29, 1808079.	14.9	95
8	Superhydrophilic Graphdiyne: Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity (Adv.) <i>Tj ETQq0 0 0 rg1.1 Overlook 10 Tf 50</i>	14.9	95
9	Graphdiyne: synthesis, properties, and applications. <i>Chemical Society Reviews</i> , 2019, 48, 908-936.	38.1	584
10	Synthesis of Ultrathin Graphdiyne Film Using a Surface Template. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2632-2637.	8.0	103
11	Diatomite-Templated Synthesis of Freestanding 3D Graphdiyne for Energy Storage and Catalysis Application. <i>Advanced Materials</i> , 2018, 30, e1800548.	21.0	134
12	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. <i>Science Advances</i> , 2018, 4, eaat6378.	10.3	198
13	Chemical Vapor Deposition Growth of Linked Carbon Monolayers with Acetylenic Scaffoldings on Silver Foil. <i>Advanced Materials</i> , 2017, 29, 1604665.	21.0	114
14	Graphdiyne Filter for Decontaminating Lead-Ion-Polluted Water. <i>Advanced Electronic Materials</i> , 2017, 3, 1700122.	5.1	56
15	Architecture of TiO_2 -Graphdiyne-Containing Thin Film Using Modified Glaser-Hay Coupling Reaction for Enhanced Photocatalytic Property of TiO_2 . <i>Advanced Materials</i> , 2017, 29, 1700421.	21.0	115
16	Direct Synthesis of Graphdiyne Nanowalls on Arbitrary Substrates and Its Application for Photoelectrochemical Water Splitting Cell. <i>Advanced Materials</i> , 2017, 29, 1605308.	21.0	189
17	Graphdiyne: A Promising Catalyst-Support To Stabilize Cobalt Nanoparticles for Oxygen Evolution. <i>ACS Catalysis</i> , 2017, 7, 5209-5213.	11.2	150
18	Synthesis of Hierarchical Graphdiyne-Based Architecture for Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , 2017, 29, 5777-5781.	6.7	206

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19	Microscopic Dimensions Engineering: Stepwise Manipulation of the Surface Wettability on 3D Substrates for Oil/Water Separation. <i>Advanced Materials</i> , 2016, 28, 936-942.	21.0	109
20	Robust Superhydrophobic Foam: A Graphdiyne-Based Hierarchical Architecture for Oil/Water Separation. <i>Advanced Materials</i> , 2016, 28, 168-173.	21.0	449
21	Hybrid-dimensional magnetic microstructure based 3D substrates for remote controllable and ultrafast water remediation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 938-943.	10.3	32
22	Graphdiyne: A Metal-Free Material as Hole Transfer Layer To Fabricate Quantum Dot-Sensitized Photocathodes for Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2016, 138, 3954-3957.	13.7	335
23	Ultrathermostable, Magnetic-Driven, and Superhydrophobic Quartz Fibers for Water Remediation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1025-1032.	8.0	30
24	Synthesis of Graphdiyne Nanowalls Using Acetylenic Coupling Reaction. <i>Journal of the American Chemical Society</i> , 2015, 137, 7596-7599.	13.7	484
25	Research on Intelligent Driving Behavior Based on Cognitive Science and Scene Simulation. , 2011, , .		4
26	Comparison on driving behavior between manned and unmanned ground vehicles. , 2011, , .		2