Xin Gao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/172132/publications.pdf

Version: 2024-02-01

26 papers	3,811 citations	304743 22 h-index	642732 23 g-index
26 all docs	26 docs citations	26 times ranked	3705 citing authors

#	Article	IF	Citations
1	Graphdiyne: synthesis, properties, and applications. Chemical Society Reviews, 2019, 48, 908-936.	38.1	584
2	Synthesis of Graphdiyne Nanowalls Using Acetylenic Coupling Reaction. Journal of the American Chemical Society, 2015, 137, 7596-7599.	13.7	484
3	Robust Superhydrophobic Foam: A Graphdiyneâ€Based Hierarchical Architecture for Oil/Water Separation. Advanced Materials, 2016, 28, 168-173.	21.0	449
4	Graphdiyne: A Metal-Free Material as Hole Transfer Layer To Fabricate Quantum Dot-Sensitized Photocathodes for Hydrogen Production. Journal of the American Chemical Society, 2016, 138, 3954-3957.	13.7	335
5	Synthesis of Hierarchical Graphdiyne-Based Architecture for Efficient Solar Steam Generation. Chemistry of Materials, 2017, 29, 5777-5781.	6.7	206
6	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. Science Advances, 2018, 4, eaat6378.	10.3	198
7	Direct Synthesis of Graphdiyne Nanowalls on Arbitrary Substrates and Its Application for Photoelectrochemical Water Splitting Cell. Advanced Materials, 2017, 29, 1605308.	21.0	189
8	Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. Nature Energy, 2020, 5, 786-793.	39.5	168
9	Graphdiyne: A Promising Catalystâ€“Support To Stabilize Cobalt Nanoparticles for Oxygen Evolution. ACS Catalysis, 2017, 7, 5209-5213.	11.2	150
10	Diatomiteâ€Templated Synthesis of Freestanding 3D Graphdiyne for Energy Storage and Catalysis Application. Advanced Materials, 2018, 30, e1800548.	21.0	134
11	Architecture of Î²â€Graphdiyneâ€Containing Thin Film Using Modified Glaserâ€“Hay Coupling Reaction for Enhanced Photocatalytic Property of TiO₂. Advanced Materials, 2017, 29, 1700421.	21.0	115
12	Graphdiyne for crucial gas involved catalytic reactions in energy conversion applications. Energy and Environmental Science, 2020, 13, 1326-1346.	30.8	115
13	Chemical Vapor Deposition Growth of Linked Carbon Monolayers with Acetylenic Scaffoldings on Silver Foil. Advanced Materials, 2017, 29, 1604665.	21.0	114
14	Microscopic Dimensions Engineering: Stepwise Manipulation of the Surface Wettability on 3D Substrates for Oil/Water Separation. Advanced Materials, 2016, 28, 936-942.	21.0	109
15	Synthesis of Ultrathin Graphdiyne Film Using a Surface Template. ACS Applied Materials & Interfaces, 2019, 11, 2632-2637.	8.0	103
16	Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity. Advanced Functional Materials, 2019, 29, 1808079.	14.9	95
17	All-Solid-State Lithiumâ€“Sulfur Batteries Enhanced by Redox Mediators. Journal of the American Chemical Society, 2021, 143, 18188-18195.	13.7	66
18	Graphdiyne Filter for Decontaminating Leadâ€Ionâ€Polluted Water. Advanced Electronic Materials, 2017, 3, 1700122.	5.1	56

#	Article	IF	Citations
19	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. Nano Letters, 2021, 21, 2074-2080.	9.1	37
20	Hybrid-dimensional magnetic microstructure based 3D substrates for remote controllable and ultrafast water remediation. Journal of Materials Chemistry A, 2016, 4, 938-943.	10.3	32
21	Ultrathermostable, Magnetic-Driven, and Superhydrophobic Quartz Fibers for Water Remediation. ACS Applied Materials & Interfaces, 2016, 8, 1025-1032.	8.0	30
22	Incorporating the Nanoscale Encapsulation Concept from Liquid Electrolytes into Solid-State Lithiumâ€“Sulfur Batteries. Nano Letters, 2020, 20, 5496-5503.	9.1	30
23	Coldâ€Starting Allâ€Solidâ€State Batteries from Room Temperature by Thermally Modulated Current Collector in Subâ€Minute. Advanced Materials, 2022, 34, .	21.0	5
24	Research on Intelligent Driving Behavior Based on Cognitive Science and Scene Simulation. , 2011, , .		4
25	Comparison on driving behavior between manned and unmanned ground vehicles. , 2011, , .		2
26	Superhydrophilic Graphdiyne: Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	14.9	1