Xin Liu

List of Publications by Year in descending order

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24 papers	4,496 citations	331538 21 h-index	610775 24 g-index
24 all docs	24 docs citations	24 times ranked	6128 citing authors

#	Article	IF	Citations
1	Theoretical considerations on activity of the electrochemical CO2 reduction on metal single-atom catalysts with asymmetrical active sites. Catalysis Today, 2022, 397-399, 574-580.	2.2	9
2	CO2 reduction by single copper atom supported on g-C3N4 with asymmetrical active sites. Applied Surface Science, 2021, 540, 148293.	3.1	33
3	Isolated Boron Sites for Electroreduction of Dinitrogen to Ammonia. ACS Catalysis, 2020, 10, 1847-1854.	5.5	161
4	Strain effect on the catalytic activities of B- and B/N-doped black phosphorene for electrochemical conversion of CO to valuable chemicals. Journal of Materials Chemistry A, 2020, 8, 11986-11995.	5.2	31
5	A computational study on Pt and Ru dimers supported on graphene for the hydrogen evolution reaction: new insight into the alkaline mechanism. Journal of Materials Chemistry A, 2019, 7, 3648-3654.	5.2	134
6	Building Up a Picture of the Electrocatalytic Nitrogen Reduction Activity of Transition Metal Single-Atom Catalysts. Journal of the American Chemical Society, 2019, 141, 9664-9672.	6.6	642
7	Nitrogen Vacancies on 2D Layered W₂N₃: A Stable and Efficient Active Site for Nitrogen Reduction Reaction. Advanced Materials, 2019, 31, e1902709.	11.1	387
8	Heteroatom-Doped Transition Metal Electrocatalysts for Hydrogen Evolution Reaction. ACS Energy Letters, 2019, 4, 805-810.	8.8	323
9	Emerging Two-Dimensional Nanomaterials for Electrocatalysis. Chemical Reviews, 2018, 118, 6337-6408.	23.0	1,552
10	Single-Crystal Nitrogen-Rich Two-Dimensional Mo₅N₆ Nanosheets for Efficient and Stable Seawater Splitting. ACS Nano, 2018, 12, 12761-12769.	7.3	317
11	Constructing tunable dual active sites on two-dimensional C3N4@MoN hybrid for electrocatalytic hydrogen evolution. Nano Energy, 2018, 53, 690-697.	8.2	175
12	A high-rate and ultrastable anode enabled by boron-doped nanoporous carbon spheres for high-power and long life lithium ion capacitors. Materials Today Energy, 2018, 9, 428-439.	2.5	19
13	The effect of nitrogen-containing functional groups on SO2 adsorption on carbon surface: Enhanced physical adsorption interactions. Surface Science, 2018, 677, 78-82.	0.8	66
14	A high performance lithium ion capacitor achieved by the integration of a Sn-C anode and a biomass-derived microporous activated carbon cathode. Scientific Reports, 2017, 7, 40990.	1.6	79
15	Confined growth of small ZnO nanoparticles in a nitrogen-rich carbon framework: Advanced anodes for long-life Li-ion batteries. Carbon, 2017, 113, 46-54.	5.4	55
16	Nitrogen-rich carbon spheres made by a continuous spraying process for high-performance supercapacitors. Nano Research, 2016, 9, 3209-3221.	5.8	78
17	High-energy Li-ion hybrid supercapacitor enabled by a long life N-rich carbon based anode. Electrochimica Acta, 2016, 213, 626-632.	2.6	37
18	One-step ammonia activation of Zhundong coal generating nitrogen-doped microporous carbon for gas adsorption and energy storage. Carbon, 2016, 109, 747-754.	5.4	75

#	Article	IF	Citations
19	Porous carbon with a large surface area and an ultrahigh carbon purity via templating carbonization coupling with KOH activation as excellent supercapacitor electrode materials. Applied Surface Science, 2016, 387, 857-863.	3.1	70
20	Highlighting the role of nitrogen doping in enhancing CO₂ uptake onto carbon surfaces: a combined experimental and computational analysis. Journal of Materials Chemistry A, 2016, 4, 18248-18252.	5.2	48
21	Controllable nitrogen introduction into porous carbon with porosity retaining for investigating nitrogen doping effect on SO 2 adsorption. Chemical Engineering Journal, 2016, 290, 116-124.	6.6	84
22	Size-controllable templates for the synthesis of porous carbon with tunable pore configurations. Materials Letters, 2016, 175, 56-59.	1.3	3
23	The effect of functional groups on the SO 2 adsorption on carbon surface I: A new insight into noncovalent interaction between SO 2 molecule and acidic oxygen-containing groups. Applied Surface Science, 2016, 369, 552-557.	3.1	45
24	A systematic investigation of SO2 removal dynamics by coal-based activated cokes: The synergic enhancement effect of hierarchical pore configuration and gas components. Applied Surface Science, 2015, 357, 1895-1901.	3.1	73