Kailong

List of Publications by Year
in descending order

35 papers	1,661 citations	430442 18 h-index	414034 32 g-index
35 all docs	35 docs citations	35 times ranked	1916 citing authors

#	Article	IF	Citations
1	Metal and Nonmetal Codoped 3D Nanoporous Graphene for Efficient Bifunctional Electrocatalysis and Rechargeable Znâ€“Air Batteries. Advanced Materials, 2019, 31, e1900843.	11.1	236
2	Boosting electrochemical water splitting via ternary NiMoCo hybrid nanowire arrays. Journal of Materials Chemistry A, 2019, 7, 2156-2164.	5.2	163
3	Theoretically Revealed and Experimentally Demonstrated Synergistic Electronic Interaction of CoFe Dual-Metal Sites on N-doped Carbon for Boosting Both Oxygen Reduction and Evolution Reactions. Nano Letters, 2022, 22, 3392-3399.	4.5	121
4	Cooperation between holey graphene and NiMo alloy for hydrogen evolution in an acidic electrolyte. ACS Catalysis, 2018, 8, 3579-3586.	5.5	98
5	MOF Structure Engineering to Synthesize Coï£¿Nï£¿C Catalyst with Richer Accessible Active Sites for Enhanced Oxygen Reduction. Small, 2021, 17, e2104684.	5.2	94
6	Acceleration of Electrochemical CO₂ Reduction to Formate at the Sn/Reduced Graphene Oxide Interface. ACS Catalysis, 2021, 11, 3310-3318.	5.5	92
7	Chemical Dopants on Edge of Holey Graphene Accelerate Electrochemical Hydrogen Evolution Reaction. Advanced Science, 2019, 6, 1900119.	5.6	90
8	Anchoring Mo single atoms/clusters and N on edge-rich nanoporous holey graphene as bifunctional air electrode in Znâ^'air batteries. Applied Catalysis B: Environmental, 2020, 276, 119172.	10.8	79
9	Catalytic activity of graphene-covered non-noble metals governed by proton penetration in electrochemical hydrogen evolution reaction. Nature Communications, 2021, 12, 203.	5.8	77
10	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. Angewandte Chemie - International Edition, 2018, 57, 13302-13307.	7.2	64
11	Effect of Graphene Encapsulation of NiMo Alloys on Oxygen Evolution Reaction. ACS Catalysis, 2020, 10, 792-799.	5.5	60
12	Graphene Layer Encapsulation of Non-Noble Metal Nanoparticles as Acid-Stable Hydrogen Evolution Catalysts. ACS Energy Letters, 2018, 3, 1539-1544.	8.8	57
13	Twelve-Component Free-Standing Nanoporous High-Entropy Alloys for Multifunctional Electrocatalysis. , 2022, 4, 181-189.		50
14	Topology and doping effects in three-dimensional nanoporous graphene. Carbon, 2018, 131, 258-265.	5.4	41
15	Phase-Dependent Reactivity of Nickel Molybdates for Electrocatalytic Urea Oxidation. ACS Applied Energy Materials, 2020, 3, 7535-7542.	2.5	41
16	Eightâ€Component Nanoporous Highâ€Entropy Oxides with Low Ru Contents as Highâ€Performance Bifunctional Catalysts in Znâ€Air Batteries. Small, 2022, 18, e2107207.	5.2	40
17	Building a Reactive Armor Using S-Doped Graphene for Protecting Potassium Metal Anodes from Oxygen Crossover in Kâ€“O₂ Batteries. ACS Energy Letters, 2020, 5, 1788-1793.	8.8	32
18	Bottom-up Synthesis of Porous NiMo Alloy for Hydrogen Evolution Reaction. Metals, 2018, 8, 83.	1.0	29

#	Article	IF	Citations
19	Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous Nâ€Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible Allâ€Solidâ€State Alâ€Air Batteries. Advanced Functional Materials, 2021, 31, 2103632.	7.8	19
20	Enhanced bifunctional catalytic activities of N-doped graphene by Ni in a 3D trimodal nanoporous nanotubular network and its ultralong cycling performance in Zn-air batteries. Journal of Energy Chemistry, 2022, 66, 466-473.	7.1	18
21	In situ coupling of Ag nanoparticles with high-entropy oxides as highly stable bifunctional catalysts for wearable Znâ€“Ag/Znâ€“air hybrid batteries. Nanoscale, 2021, 13, 16164-16171.	2.8	18
22	Corrosion-resistant non-noble metal electrodes for PEM-type water electrolyzer. International Journal of Hydrogen Energy, 2021, 46, 38603-38611.	3.8	17
23	Highly Strengthened and Toughened Znâ€“Liâ€“Mn Alloys as Longâ€Cycling Life and Dendriteâ€Free Zn Anode for Aqueous Zincâ€ion Batteries. Small, 2022, 18, e2200787.	5.2	16
24	Machine Learning Prediction of Superconducting Critical Temperature through the Structural Descriptor. Journal of Physical Chemistry C, 2022, 126, 8922-8927.	1.5	16
25	Deuterium Adsorption on Free-Standing Graphene. Nanomaterials, 2021, 11, 130.	1.9	14
26	Inhibited Surface Diffusion of High-Entropy Nano-Alloys for the Preparation of 3D Nanoporous Graphene with High Amounts of Single Atom Dopants. , 2022, 4, 978-986.		14
27	Phase-Dependent Electrochemical CO₂ Reduction Ability of NiSn Alloys for Formate Generation. ACS Applied Energy Materials, 2021, 4, 7122-7128.	2.5	13
28	Extracting Vanadium from Stone Coal by a Cyclic Alkaline Leaching Method. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1342-1347.	1.0	12
29	Towards free-standing graphane: atomic hydrogen and deuterium bonding to nano-porous graphene. Nanotechnology, 2021, 32, 035707.	1.3	12
30	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. Angewandte Chemie, 2018, 130, 13486-13491.	1.6	10
31	Gap Opening in Double-Sided Highly Hydrogenated Free-Standing Graphene. Nano Letters, 2022, 22, 2971-2977.	4.5	9
32	Designing Ru-doped Zn₃V₃O₈ bifunctional OER and HER catalysts through a unified computational and experimental approach. Nanoscale, 2021, 13, 17457-17464.	2.8	4
33	Damageâ€Free Solar Dewatering of Microâ€Algal Concentrates via Multifunctional Hierarchical Porous Graphene. Advanced Sustainable Systems, 2019, 3, 1900045.	2.7	3
34	Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous Nâ€Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible Allâ€Solidâ€State Alâ€Air Batteries (Adv. Funct. Mater. 38/2021). Advanced Functional Materials, 2021, 31, 2170284.	7.8	1
35	2D MoS 2 Heterostructures on Epitaxial and Selfâ€Standing Graphene for Energy Storage: From Growth Mechanism to Application. Advanced Materials Technologies, 0, , 2100963.	3.0	1