

Xiong Liu

List of Publications by Year in descending order

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49
papers

5,078
citations

156536

32
h-index

223390

49
g-index

49
all docs

49
docs citations

49
times ranked

7391
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Ionic Storage in Aqueous Rechargeable Batteries: From Fundamentals to Applications. <i>Advanced Materials</i> , 2022, 34, e2105611.	11.1	62
2	Ligand Modulation of Active Sites to Promote Electrocatalytic Oxygen Evolution. <i>Advanced Materials</i> , 2022, 34, e2200270.	11.1	108
3	Atomic engineering promoted electrooxidation kinetics of manganese-based cathode for stable aqueous zinc-ion batteries. <i>Nano Research</i> , 2022, 15, 8603-8612.	5.8	17
4	Niobium oxyphosphate nanosheet assembled two-dimensional anode material for enhanced lithium storage. <i>Journal of Energy Chemistry</i> , 2021, 53, 268-275.	7.1	14
5	Scalable fabrication and active site identification of MOF shell-derived nitrogen-doped carbon hollow frameworks for oxygen reduction. <i>Journal of Materials Science and Technology</i> , 2021, 66, 186-192.	5.6	23
6	Comprehensive understanding of the roles of water molecules in aqueous Zn-ion batteries: from electrolytes to electrode materials. <i>Energy and Environmental Science</i> , 2021, 14, 3796-3839.	15.6	257
7	A Stable CaV_4O_9 Anode Promises Near-Zero Volume Change and High Capacity Lithium Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2003612.	10.2	16
8	Ligand and Anion Co-Leaching Induced Complete Reconstruction of Polyoxomolybdate-Organic Complex Oxygen-Evolving Pre-Catalysts. <i>Advanced Functional Materials</i> , 2021, 31, 2101792.	7.8	35
9	Comprehensive Understandings into Complete Reconstruction of Precatalysts: Synthesis, Applications, and Characterizations. <i>Advanced Materials</i> , 2021, 33, e2007344.	11.1	198
10	Hollow Co_3O_4 @N-doped carbon nanocrystals anchored on carbon nanotubes for freestanding anode with superior Li/Na storage performance. <i>Chemical Engineering Journal</i> , 2021, 415, 128861.	6.6	19
11	Advances in Understanding the Electrocatalytic Reconstruction Chemistry of Coordination Compounds. <i>Small</i> , 2021, 17, e2100629.	5.2	10
12	Fullerotetrahydroquinolines: TfOH/TsOH-Mediated One-Pot Two-Step Synthesis and N-Alkylation/Acylation/Carboamidation Reaction. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 4399-4421.	2.1	6
13	Liquid Phase-Induced Solid Solution Phase Mechanisms for Highly Stable and Ultrafast Energy Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2102342.	10.2	6
14	A MOFs plus ZIFs Strategy toward Ultrafine Co Nanodots Confined into Superficial N-Doped Carbon Nanowires for Efficient Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54545-54552.	4.0	21
15	Reconstruction-Determined Alkaline Water Electrolysis at Industrial Temperatures. <i>Advanced Materials</i> , 2020, 32, e2001136.	11.1	177
16	Complete Reconstruction of Hydrate Pre-Catalysts for Ultrastable Water Electrolysis in Industrial-Concentration Alkali Media. <i>Cell Reports Physical Science</i> , 2020, 1, 100241.	2.8	117
17	Wearable Textile-Based Zn Alkaline Microbattery with High Energy Density and Excellent Reliability. <i>Small</i> , 2020, 16, e2000293.	5.2	47
18	Universal Approach to Fabricating Graphene-Supported Single-Atom Catalysts from Doped ZnO Solid Solutions. <i>ACS Central Science</i> , 2020, 6, 1431-1440.	5.3	69

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19	Ultra-fast and high-stable near-pseudocapacitance intercalation cathode for aqueous potassium-ion storage. <i>Nano Energy</i> , 2020, 77, 105069.	8.2	32
20	Engineering Mesoporous Structure in Amorphous Carbon Boosts Potassium Storage with High Initial Coulombic Efficiency. <i>Nano-Micro Letters</i> , 2020, 12, 148.	14.4	81
21	Advances in metal-organic framework coatings: versatile synthesis and broad applications. <i>Chemical Society Reviews</i> , 2020, 49, 3142-3186.	18.7	327
22	Free-standing 3D composite of CoO nanocrystals anchored on carbon nanotubes as high-power anodes in Li-Ion hybrid supercapacitors. <i>Journal of Power Sources</i> , 2019, 437, 226934.	4.0	57
23	Deep Reconstruction of Nickel-Based Precatalysts for Water Oxidation Catalysis. <i>ACS Energy Letters</i> , 2019, 4, 2585-2592.	8.8	137
24	Upraising the O 2p Orbital by Integrating Ni with MoO ₂ for Accelerating Hydrogen Evolution Kinetics. <i>ACS Catalysis</i> , 2019, 9, 2275-2285.	5.5	165
25	A Novel Dendrite-Free Mn ²⁺ /Zn ²⁺ Hybrid Battery with 2.3 V Voltage Window and 11000 Cycle Lifespan. <i>Advanced Energy Materials</i> , 2019, 9, 1901469.	10.2	175
26	Multicomponent Hierarchical Cu-Doped NiCo-LDH/CuO Double Arrays for Ultralong-Life Hybrid Fiber Supercapacitor. <i>Advanced Functional Materials</i> , 2019, 29, 1809004.	7.8	313
27	Low-Crystalline Bimetallic Metal-Organic Framework Electrocatalysts with Rich Active Sites for Oxygen Evolution. <i>ACS Energy Letters</i> , 2019, 4, 285-292.	8.8	255
28	A porous nickel cyclotetraphosphate nanosheet as a new acid-stable electrocatalyst for efficient hydrogen evolution. <i>Nanoscale</i> , 2018, 10, 9856-9861.	2.8	29
29	Novel synthesis of core-shell Au-Pt dendritic nanoparticles supported on carbon black for enhanced methanol electro-oxidation. <i>Applied Surface Science</i> , 2018, 433, 840-846.	3.1	39
30	Creation of Centimeter-Sized 2D Crystalline Film by Crystallization of Homopolymer in Solution. <i>Chemistry - A European Journal</i> , 2018, 24, 16440-16444.	1.7	2
31	Polyoxomolybdate-derived carbon-encapsulated multicomponent electrocatalysts for synergistically boosting hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17874-17881.	5.2	30
32	High electrocatalytic performance of a graphene-supported PtAu nanoalloy for methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12803-12810.	3.8	37
33	Finely Crafted 3D Electrodes for Dendrite-Free and High-Performance Flexible Fiber-Shaped Zn-Co Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1802016.	7.8	216
34	Pt nanoparticles modified Au dendritic nanostructures: Facile synthesis and enhanced electrocatalytic performance for methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22100-22107.	3.8	22
35	Facile electrospinning formation of carbon-confined metal oxide cube-in-tube nanostructures for stable lithium storage. <i>Chemical Communications</i> , 2017, 53, 8284-8287.	2.2	34
36	General Oriented Formation of Carbon Nanotubes from Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 8212-8221.	6.6	777

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37	Earth Abundant Fe/Mn-Based Layered Oxide Interconnected Nanowires for Advanced K-Ion Full Batteries. <i>Nano Letters</i> , 2017, 17, 544-550.	4.5	356
38	Synergistic Effect of Core-Shell Heterogeneous V ₂ O ₅ @MV ₆ O ₁₅ (M = Na, K) Nanoparticles for Enhanced Lithium Storage Performance. <i>Electrochimica Acta</i> , 2017, 254, 262-268.	2.6	12
39	General Oriented Synthesis of Precise Carbon-Confined Nanostructures by Low-Pressure Vapor Superassembly and Controlled Pyrolysis. <i>Nano Letters</i> , 2017, 17, 7773-7781.	4.5	53
40	Platinum nanoparticles decorated dendrite-like gold nanostructure on glassy carbon electrodes for enhancing electrocatalysis performance to glucose oxidation. <i>Applied Surface Science</i> , 2016, 384, 58-64.	3.1	49
41	Three dimensional V ₂ O ₅ /NaV ₆ O ₁₅ hierarchical heterostructures: Controlled synthesis and synergistic effect investigated by in situ X-ray diffraction. <i>Nano Energy</i> , 2016, 27, 147-156.	8.2	61
42	A synergistic effect between layer surface configurations and K ions of potassium vanadate nanowires for enhanced energy storage performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4893-4899.	5.2	65
43	Interface-modulated approach toward multilevel metal oxide nanotubes for lithium-ion batteries and oxygen reduction reaction. <i>Nano Research</i> , 2016, 9, 2445-2457.	5.8	40
44	Gradient-temperature hydrothermal fabrication of hierarchical Zn ₂ SnO ₄ hollow boxes stimulated by thermodynamic phase transformation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14095-14100.	5.2	23
45	Synthesis of highly dispersed Pt nanoclusters anchored graphene composites and their application for non-enzymatic glucose sensing. <i>Electrochimica Acta</i> , 2015, 157, 149-157.	2.6	118
46	Synthesis of Pt-Pd bimetallic nanoparticles anchored on graphene for highly active methanol electro-oxidation. <i>Journal of Power Sources</i> , 2014, 262, 279-285.	4.0	108
47	Gold nanoparticles directly modified glassy carbon electrode for non-enzymatic detection of glucose. <i>Applied Surface Science</i> , 2014, 288, 524-529.	3.1	130
48	Facile synthesis of palladium-graphene nanocomposites and their catalysis for electro-oxidation of methanol and ethanol. <i>Electrochimica Acta</i> , 2013, 109, 570-576.	2.6	75
49	Efficient and clean synthesis of graphene supported platinum nanoclusters and its application in direct methanol fuel cell. <i>Electrochimica Acta</i> , 2012, 85, 84-89.	2.6	58