Xiuqiang Xie

List of Publications by Year
in descending order

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71 papers	8,761 citations	50276 46 h-index	88630 70 g-index
71 all docs	71 docs citations	71 times ranked	10921 citing authors

#	Article	IF	Citations
1	Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Naâ€Ion Storage. Advanced Materials, 2017, 29, 1702410.	21.0	757
2	Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. Nano Energy, 2016, 26, 513-523.	16.0	710
3	MoS₂/Graphene Composite Anodes with Enhanced Performance for Sodiumâ€Ion Batteries: The Role of the Twoâ€Dimensional Heterointerface. Advanced Functional Materials, 2015, 25, 1393-1403.	14.9	657
4	MoS₂â€onâ€MXene Heterostructures as Highly Reversible Anode Materials for Lithiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 1846-1850.	13.8	520
5	MoS₂ Nanosheets Vertically Aligned on Carbon Paper: A Freestanding Electrode for Highly Reversible Sodiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1502161.	19.5	444
6	Nitrogen-Doped Graphene Nanosheets as Metal-Free Catalysts for Aerobic Selective Oxidation of Benzylic Alcohols. ACS Catalysis, 2012, 2, 622-631.	11.2	384
7	Microstructure and surface control of MXene films for water purification. Nature Sustainability, 2019, 2, 856-862.	23.7	273
8	Ti₃C₂T_x-Based Three-Dimensional Hydrogel by a Graphene Oxide-Assisted Self-Convergence Process for Enhanced Photoredox Catalysis. ACS Nano, 2019, 13, 295-304.	14.6	247
9	Sb₂O₃/MXene(Ti₃C₂T_x) hybrid anode materials with enhanced performance for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 12445-12452.	10.3	245
10	Immobilizing Polysulfides with MXene-Functionalized Separators for Stable Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 29427-29433.	8.0	234
11	Highly Porous NiCo₂O₄ Nanoflakes and Nanobelts as Anode Materials for Lithium-Ion Batteries with Excellent Rate Capability. ACS Applied Materials & Interfaces, 2014, 6, 14827-14835.	8.0	187
12	Sn@CNT nanopillars grown perpendicularly on carbon paper: A novel free-standing anode for sodium ion batteries. Nano Energy, 2015, 13, 208-217.	16.0	185
13	Ti3C2Tx MXene as a Janus cocatalyst for concurrent promoted photoactivity and inhibited photocorrosion. Applied Catalysis B: Environmental, 2018, 237, 43-49.	20.2	174
14	Microwave-assisted Synthesis of Mesoporous Co₃O₄ Nanoflakes for Applications in Lithium Ion Batteries and Oxygen Evolution Reactions. ACS Applied Materials & Interfaces, 2015, 7, 3306-3313.	8.0	169
15	Confined Sulfur in 3â€‰D MXene/Reduced Graphene Oxide Hybrid Nanosheets for Lithiumâ€“Sulfur Battery. Chemistry - A European Journal, 2017, 23, 12613-12619.	3.3	167
16	SnS₂ Nanoplatelet@Graphene Nanocomposites as Highâ€Capacity Anode Materials for Sodiumâ€Ion Batteries. Chemistry - an Asian Journal, 2014, 9, 1611-1617.	3.3	166
17	Positioning MXenes in the Photocatalysis Landscape: Competitiveness, Challenges, and Future Perspectives. Advanced Functional Materials, 2020, 30, 2002528.	14.9	162
18	Charge transfer induced polymerization of EDOT confined between 2D titanium carbide layers. Journal of Materials Chemistry A, 2017, 5, 5260-5265.	10.3	142

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19	Multi-chambered micro/mesoporous carbon nanocubes as new polysulfides reserviors for lithiumâ€“sulfur batteries with long cycle life. Nano Energy, 2015, 16, 268-280.	16.0	132
20	Porous Ti₃C₂T_x MXene for Ultrahigh-Rate Sodium-Ion Storage with Long Cycle Life. ACS Applied Nano Materials, 2018, 1, 505-511.	5.0	132
21	A comparative investigation on the effects of nitrogen-doping into graphene on enhancing the electrochemical performance of SnO₂/graphene for sodium-ion batteries. Nanoscale, 2015, 7, 3164-3172.	5.6	130
22	CuO single crystal with exposed {001} facets - A highly efficient material for gas sensing and Li-ion battery applications. Scientific Reports, 2014, 4, 5753.	3.3	123
23	A Microwave Synthesis of Mesoporous NiCo₂O₄ Nanosheets as Electrode Materials for Lithiumâ€Ion Batteries and Supercapacitors. ChemPhysChem, 2015, 16, 169-175.	2.1	122
24	Advances in graphene-based semiconductor photocatalysts for solar energy conversion: fundamentals and materials engineering. Nanoscale, 2015, 7, 13278-13292.	5.6	120
25	Design of efficient electrocatalysts for hydrogen evolution reaction based on 2D MXenes. Journal of Energy Chemistry, 2021, 55, 244-255.	12.9	104
26	MoS₂ Nanosheets Supported on 3D Graphene Aerogel as a Highly Efficient Catalyst for Hydrogen Evolution. Chemistry - A European Journal, 2015, 21, 15908-15913.	3.3	99
27	Stressâ€Transferâ€Induced Inâ€…Situ Formation of Ultrathin Nickel Phosphide Nanosheets for Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2018, 57, 13082-13085.	13.8	97
28	Artificial nitrogen fixation over bismuth-based photocatalysts: fundamentals and future perspectives. Journal of Materials Chemistry A, 2020, 8, 4978-4995.	10.3	97
29	Rising from the horizon: three-dimensional functional architectures assembled with MXene nanosheets. Journal of Materials Chemistry A, 2020, 8, 18538-18559.	10.3	86
30	Nitrogen-doped graphene stabilized gold nanoparticles for aerobic selective oxidation of benzylic alcohols. RSC Advances, 2012, 2, 12438.	3.6	84
31	Mesoporous hexagonal Co3O4 for high performance lithium ion batteries. Scientific Reports, 2014, 4, 6519.	3.3	84
32	Hierarchical Porous Carbon Spheres for Highâ€Performance Naâ€“O₂ Batteries. Advanced Materials, 2017, 29, 1606816.	21.0	81
33	Two-dimensional layered compound based anode materials for lithium-ion batteries and sodium-ion batteries. Journal of Colloid and Interface Science, 2017, 499, 17-32.	9.4	78
34	Controlling the synergistic effect of oxygen vacancies and N dopants to enhance photocatalytic activity of N-doped TiO2 by H2 reduction. Applied Catalysis A: General, 2012, 425-426, 117-124.	4.3	76
35	Porous poly(vinylidene fluoride-co-hexafluoropropylene) polymer membrane with sandwich-like architecture for highly safe lithium ion batteries. Journal of Membrane Science, 2014, 472, 133-140.	8.2	75
36	3D Interconnected Carbon Fiber Networkâ€Enabled Ultralong Life Na₃V₂(PO₄)₃@Carbon Paper Cathode for Sodiumâ€Ion Batteries. Small, 2017, 13, 1603318.	10.0	72

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37	3D Networked Tin Oxide/Graphene Aerogel with a Hierarchically Porous Architecture for Highâ€Rate Performance Sodiumâ€Ion Batteries. ChemSusChem, 2015, 8, 2948-2955.	6.8	70
38	MoS₂â€onâ€MXene Heterostructures as Highly Reversible Anode Materials for Lithiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 1864-1868.	2.0	67
39	Sn2+ dopant induced visible-light activity of SnO2 nanoparticles for H2 production. Catalysis Communications, 2011, 16, 215-219.	3.3	64
40	Porous carbon nanocages encapsulated with tin nanoparticles for high performance sodium-ion batteries. Energy Storage Materials, 2016, 5, 180-190.	18.0	61
41	Hierarchical Mesoporous SnO Microspheres as High Capacity Anode Materials for Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2014, 20, 3192-3197.	3.3	59
42	Enhancement of stability for lithium oxygen batteries by employing electrolytes gelled by poly(vinylidene fluoride-co-hexafluoropropylene) and tetraethylene glycol dimethyl ether. Electrochimica Acta, 2015, 183, 56-62.	5.2	58
43	Schottky Junctions with Bi Cocatalyst for Taming Aqueous Phase N₂ Reduction toward Enhanced Solar Ammonia Production. Advanced Science, 2021, 8, 2003626.	11.2	56
44	A free-standing LiFePO₄â€“carbon paper hybrid cathode for flexible lithium-ion batteries. Green Chemistry, 2016, 18, 2691-2698.	9.0	53
45	2D Titanium Carbide (MXene) Based Films: Expanding the Frontier of Functional Film Materials. Advanced Functional Materials, 2021, 31, 2105043.	14.9	50
46	Achieving Highâ€Performance 3D K⁺â€Preâ€intercalated Ti₃C₂T_x MXene for Potassiumâ€Ion Hybrid Capacitors via Regulating Electrolyte Solvation Structure. Angewandte Chemie - International Edition, 2021, 60, 26246-26253.	13.8	50
47	Room-Temperature Assembled MXene-Based Aerogels for High Mass-Loading Sodium-Ion Storage. Nano-Micro Letters, 2022, 14, 37.	27.0	49
48	Photocatalytic reforming of C3-polyols for H2 production. Applied Catalysis B: Environmental, 2011, 106, 689-696.	20.2	45
49	Rose flower-like NiCo2O4 with hierarchically porous structures for highly reversible lithium storage. Journal of Alloys and Compounds, 2016, 684, 691-698.	5.5	45
50	A Bifunctional Organic Redox Catalyst for Rechargeable Lithiumâ€“Oxygen Batteries with Enhanced Performances. Advanced Science, 2016, 3, 1500285.	11.2	37
51	Robust and easily retrievable Pd/Ti3C2T âŠ‚graphene hydrogels for efficient catalytic hydrogenation of nitroaromatic compounds. Chinese Chemical Letters, 2020, 31, 1014-1017.	9.0	35
52	Synthesis of Singleâ€Crystalline Spinel LiMn₂O₄ Nanorods for Lithiumâ€Ion Batteries with High Rate Capability and Long Cycle Life. Chemistry - A European Journal, 2014, 20, 17125-17131.	3.3	32
53	Facile synthesis of Camellia oleifera shell-derived hard carbon as an anode material for lithium-ion batteries. RSC Advances, 2019, 9, 20424-20431.	3.6	31
54	Probing the Electronic Structure and Photoactivation Process of Nitrogenâ€Doped TiO₂ Using DRS, PL, and EPR. ChemPhysChem, 2012, 13, 1542-1550.	2.1	29

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55	An adaptive geometry regulation strategy for 3D graphene materials: towards advanced hybrid photocatalysts. Chemical Science, 2018, 9, 8876-8882.	7.4	29
56	Stressâ€Transferâ€Induced Inâ€…Situ Formation of Ultrathin Nickel Phosphide Nanosheets for Efficient Hydrogen Evolution. Angewandte Chemie, 2018, 130, 13266-13269.	2.0	26
57	High-efficiency cathode potassium compensation and interfacial stability improvement enabled by dipotassium squarate for potassium-ion batteries. Energy and Environmental Science, 2022, 15, 3015-3023.	30.8	25
58	Nitrogen-doped Carbon with Modulated Surface Chemistry and Porous Structure by a Stepwise Biomass Activation Process towards Enhanced Electrochemical Lithium-Ion Storage. Scientific Reports, 2019, 9, 15032.	3.3	24
59	Support interactions dictated active edge sites over MoS₂â€“carbon composites for hydrogen evolution. Nanoscale, 2020, 12, 1109-1117.	5.6	23
60	Porous hard carbon spheres derived from biomass for high-performance sodium/potassium-ion batteries. Nanotechnology, 2022, 33, 055401.	2.6	23
61	Surface Chemistry and Mesopore Dual Regulation by Sulfurâ€Promised High Volumetric Capacity of Ti₃C₂T_x Films for Sodiumâ€Ion Storage. Small, 2021, 17, e2103626.	10.0	19
62	Surfactant-free self-assembled MXene/carbon nanotubes hybrids for high-rate sodium- and potassium-ion storage. Journal of Alloys and Compounds, 2022, 901, 163426.	5.5	16
63	A retrospective on MXene-based composites for solar fuel production. Pure and Applied Chemistry, 2020, 92, 1953-1969.	1.9	14
64	Self-assembled transition metal chalcogenides@CoAl-LDH 2D/2D heterostructures with enhanced photoactivity for hydrogen evolution. Inorganic Chemistry Frontiers, 2022, 9, 994-1005.	6.0	13
65	Electrostatically confined Bi/Ti₃C₂T_xon a sponge as an easily recyclable and durable catalyst for the reductive transformation of nitroarenes. Journal of Materials Chemistry A, 2021, 9, 19847-19853.	10.3	12
66	Hydrothermal Synthesis of Multiwalled Carbon Nanotubeâ€“Zinc Manganate Nanoparticles as Anode Materials for Lithium Ion Batteries. ChemPlusChem, 2016, 81, 399-405.	2.8	9
67	Facial synthesis of two-dimensional In₂S₃/Ti₃C₂T_x heterostructures with boosted photoactivity for the hydrogenation of nitroaromatic compounds. Materials Chemistry Frontiers, 2021, 5, 6883-6890.	5.9	9
68	Selectivity control of organic chemical synthesis over plasmonic metal-based photocatalysts. Catalysis Science and Technology, 2021, 11, 425-443.	4.1	5
69	Stabilizing BiOCl/Ti₃C₂T_xhybrids for potassium-ion batteriesviasolid electrolyte interphase reconstruction. Inorganic Chemistry Frontiers, 2022, 9, 3165-3175.	6.0	5
70	Achieving Highâ€Performance 3D K⁺â€Preâ€intercalated Ti₃C₂T_x MXene for Potassiumâ€Ion Hybrid Capacitors via Regulating Electrolyte Solvation Structure. Angewandte Chemie, 2021, 133, 26450-26457.	2.0	3
71	Frontispiece: MoS₂ Nanosheets Supported on 3D Graphene Aerogel as a Highly Efficient Catalyst for Hydrogen Evolution. Chemistry - A European Journal, 2015, 21, .	3.3	0