Yi-Tao Liu

List of Publications by Year
in descending order

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68 papers	3,271 citations	136950 32 h-index	149698 56 g-index
69 all docs	69 docs citations	69 times ranked	4665 citing authors

#	Article	IF	Citations
1	Selfâ€Assembly of Transition Metal Oxide Nanostructures on MXene Nanosheets for Fast and Stable Lithium Storage. Advanced Materials, 2018, 30, e1707334.	21.0	467
2	Smart Hybridization of TiO₂ Nanorods and Fe₃O₄ Nanoparticles with Pristine Graphene Nanosheets: Hierarchically Nanoengineered Ternary Heterostructures for Highâ€Rate Lithium Storage. Advanced Functional Materials, 2015, 25, 3341-3350.	14.9	183
3	Exploring the synergy of 2D MXene-supported black phosphorus quantum dots in hydrogen and oxygen evolution reactions. Journal of Materials Chemistry A, 2018, 6, 21255-21260.	10.3	151
4	Ultrathin MXene Nanosheets Decorated with TiO₂ Quantum Dots as an Efficient Sulfur Host toward Fast and Stable Liâ€“S Batteries. Small, 2018, 14, e1802443.	10.0	125
5	Flexible and robust MoS2â€“graphene hybrid paper cross-linked by a polymer ligand: a high-performance anode material for thin film lithium-ion batteries. Chemical Communications, 2013, 49, 10305.	4.1	122
6	Carbonâ€Nanoplated CoS@TiO₂ Nanofibrous Membrane: An Interfaceâ€Engineered Heterojunction for Highâ€Efficiency Electrocatalytic Nitrogen Reduction. Angewandte Chemie - International Edition, 2019, 58, 18903-18907.	13.8	119
7	Stable Confinement of Black Phosphorus Quantum Dots on Black Tin Oxide Nanotubes: A Robust, Doubleâ€Active Electrocatalyst toward Efficient Nitrogen Fixation. Angewandte Chemie - International Edition, 2019, 58, 16439-16444.	13.8	112
8	Molecular level distribution of black phosphorus quantum dots on nitrogen-doped graphene nanosheets for superior lithium storage. Nano Energy, 2016, 30, 347-354.	16.0	107
9	Conductive and Elastic TiO₂ Nanofibrous Aerogels: A New Concept toward Selfâ€Supported Electrocatalysts with Superior Activity and Durability. Angewandte Chemie - International Edition, 2020, 59, 23252-23260.	13.8	87
10	High-concentration organic solutions of poly(styrene-co-butadiene-co-styrene)-modified graphene sheets exfoliated from graphite. Carbon, 2011, 49, 3529-3537.	10.3	86
11	The production of flexible and transparent conductive films of carbon nanotube/graphene networks coordinated by divalent metal (Cu, Ca or Mg) ions. Carbon, 2011, 49, 3371-3375.	10.3	77
12	Delicate ternary heterostructures achieved by hierarchical co-assembly of Ag and Fe₃O₄ nanoparticles on MoS₂ nanosheets: morphological and compositional synergy in reversible lithium storage. Journal of Materials Chemistry A, 2015, 3, 2726-2733.	10.3	76
13	Constructing Novel Si@SnO2 Coreâ€“Shell Heterostructures by Facile Self-Assembly of SnO2 Nanowires on Silicon Hollow Nanospheres for Large, Reversible Lithium Storage. ACS Applied Materials & Interfaces, 2016, 8, 7092-7100.	8.0	69
14	Hierarchical assembly of SnO₂ nanowires on MnO₂ nanosheets: a novel 1/2D hybrid architecture for high-capacity, reversible lithium storage. Journal of Materials Chemistry A, 2015, 3, 6477-6483.	10.3	66
15	Self-organized growth of flower-like SnS₂ and forest-like ZnS nanoarrays on nickel foam for synergistic superiority in electrochemical ammonia synthesis. Journal of Materials Chemistry A, 2019, 7, 22235-22241.	10.3	66
16	Promoted Electrocatalytic Nitrogen Fixation in Feâ€Ni Layered Double Hydroxide Arrays Coupled to Carbon Nanofibers: The Role of Phosphorus Doping. Angewandte Chemie - International Edition, 2020, 59, 13623-13627.	13.8	61
17	Direct synthesis of highly stretchable ceramic nanofibrous aerogels via 3D reaction electrospinning. Nature Communications, 2022, 13, 2637.	12.8	61
18	Facile and elegant self-organization of Ag nanoparticles and TiO2 nanorods on V2O5 nanosheets as a superior cathode material for lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 4900-4907.	10.3	58

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19	Noncovalent surface modification of carbon nanotubes for solubility in organic solvents. Carbon, 2006, 44, 1613-1616.	10.3	57
20	Synergistic effect of Cu2+-coordinated carbon nanotube/graphene network on the electrical and mechanical properties of polymer nanocomposites. Journal of Materials Chemistry, 2011, 21, 18723.	6.7	56
21	Coordinationâ€Driven Hierarchical Assembly of Silver Nanoparticles on MoS₂ Nanosheets for Improved Lithium Storage. Chemistry - an Asian Journal, 2014, 9, 1519-1524.	3.3	55
22	Hybrid Architectures based on 2D MXenes and Lowâ€Dimensional Inorganic Nanostructures: Methods, Synergies, and Energyâ€Related Applications. Small, 2018, 14, e1803632.	10.0	54
23	hâ€BN Nanosheets as 2D Substrates to Load 0D Fe₃O₄ Nanoparticles: A Hybrid Anode Material for Lithiumâ€Ion Batteries. Chemistry - an Asian Journal, 2016, 11, 828-833.	3.3	48
24	Aluminothermic reduction enabled synthesis of silicon hollow microspheres from commercialized silica nanoparticles for superior lithium storage. Chemical Communications, 2016, 52, 8401-8404.	4.1	48
25	Facile and Green Production of Impurityâ€Free Aqueous Solutions of WS₂ Nanosheets by Direct Exfoliation in Water. Small, 2016, 12, 6703-6713.	10.0	44
26	Stable Confinement of Black Phosphorus Quantum Dots on Black Tin Oxide Nanotubes: A Robust, Doubleâ€Active Electrocatalyst toward Efficient Nitrogen Fixation. Angewandte Chemie, 2019, 131, 16591-16596.	2.0	42
27	Elaborately Designed Hierarchical Heterostructures Consisting of Carbonâ€Coated TiO₂(B) Nanosheets Decorated with Fe₃O₄ Nanoparticles for Remarkable Synergy in Highâ€Rate Lithium Storage. Advanced Materials Interfaces, 2015, 2, 1500239.	3.7	41
28	A simple and green route to transparent boron nitride/PVA nanocomposites with significantly improved mechanical and thermal properties. Chinese Chemical Letters, 2013, 24, 17-19.	9.0	40
29	Creating a synergistic interplay between tubular MoS₂ and particulate Fe₃O₄ for improved lithium storage. Chemical Communications, 2015, 51, 11888-11891.	4.1	39
30	Tuning the solubility of boron nitridenanosheets in organic solvents by using block copolymer as a â€œJanusâ€•modifier. Chemical Communications, 2013, 49, 388-390.	4.1	38
31	Multi-dimensionally ordered, multi-functionally integrated r-GO@TiO2(B)@Mn3O4 yolkâ€“membraneâ€“shell superstructures for ultrafast lithium storage. Nano Research, 2016, 9, 2057-2069.	10.4	38
32	A universal strategy for the hierarchical assembly of functional 0/2D nanohybrids. Chemical Communications, 2013, 49, 1642.	4.1	34
33	Highly Active and Selective Electroreduction of N₂ by the Catalysis of Ga Single Atoms Stabilized on Amorphous TiO₂ Nanofibers. ACS Nano, 2022, 16, 4186-4196.	14.6	33
34	Boosting Highâ€Rate Lithium Storage of V₂O₅ Nanowires by Selfâ€Assembly on Nâ€Doped Graphene Nanosheets. ChemElectroChem, 2016, 3, 1730-1736.	3.4	30
35	Dispersion and noncovalent modification of multiwalled carbon nanotubes by various polystyreneâ€based polymers. Journal of Applied Polymer Science, 2008, 109, 3525-3532.	2.6	28
36	A universal strategy for thein situsynthesis of TiO₂(B) nanosheets on pristine carbon nanomaterials for high-rate lithium storage. Journal of Materials Chemistry A, 2018, 6, 7070-7079.	10.3	27

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37	V2O5 nanoparticles confined in Threeâ^'Dimensionally organized, porous Nitrogenâ^'Doped graphene frameworks: Flexible and Freeâ^'Standing cathodes for high performance lithium storage. Carbon, 2018, 140, 218-226.	10.3	27
38	Scalable production of transition metal disulphide/graphite nanoflake composites for high-performance lithium storage. RSC Advances, 2014, 4, 41543-41550.	3.6	26
39	Dandelion-like Co₃O₄ mesoporous nanostructures supported by a Cu foam for efficient oxygen evolution and lithium storage. Chemical Communications, 2018, 54, 5138-5141.	4.1	26
40	Synthesis of hyperbranched aromatic polyamideâ€"imide and its grafting onto multiwalled carbon nanotubes. Journal of Applied Polymer Science, 2007, 106, 2413-2421.	2.6	25
41	From sand to fast and stable silicon anode: Synthesis of hollow Si@void@C yolkâ€"shell microspheres by aluminothermic reduction for lithium storage. Chinese Chemical Letters, 2019, 30, 610-617.	9.0	25
42	Processable and Robust MoS₂ Paper Chemically Crossâ€Linked with Polymeric Ligands by the Coordination of Divalent Metal Ions. Chemistry - an Asian Journal, 2013, 8, 817-823.	3.3	23
43	Selective self-assembly of surface-functionalized carbon nanotubes in block copolymer template. Carbon, 2009, 47, 1883-1885.	10.3	22
44	Carbonâ€Nanoplated CoS@TiO 2 Nanofibrous Membrane: An Interfaceâ€Engineered Heterojunction for Highâ€Efficiency Electrocatalytic Nitrogen Reduction. Angewandte Chemie, 2019, 131, 19079-19083.	2.0	22
45	g-C3N4 encapsulated ZrO2 nanofibrous membrane decorated with CdS quantum dots: A hierarchically structured, self-supported electrocatalyst toward synergistic NH3 synthesis. Nano Research, 2021, 14, 1479-1487.	10.4	21
46	GO/PVA nanocomposites with significantly enhanced mechanical properties through metal ion coordination. Chinese Chemical Letters, 2019, 30, 1100-1104.	9.0	18
47	2D gallium molybdenum selenide grown on a hollow carbon nanofibrous aerogel for high-efficiency electroreduction of nitrogen: Optimized basal plane activity via selenium vacancy modulation. Applied Catalysis B: Environmental, 2021, 292, 120175.	20.2	18
48	Improved Mechanical Properties of Graphene Oxide/Poly(ethylene oxide) Nanocomposites by Dynamic Interfacial Interaction of Coordination. Australian Journal of Chemistry, 2014, 67, 121.	0.9	16
49	Elaborate synthesis of black tin oxideâ€"black titanium oxide coreâ€"shell nanotubes for ultrastable and fast lithium storage. Chemical Communications, 2018, 54, 4790-4793.	4.1	16
50	Promoted Electrocatalytic Nitrogen Fixation in Feâ€Ni Layered Double Hydroxide Arrays Coupled to Carbon Nanofibers: The Role of Phosphorus Doping. Angewandte Chemie, 2020, 132, 13725-13729.	2.0	14
51	Pt/TiO2â€" nanofibrous aerogel for effective nitrogen reduction: A simple strategy for simultaneous Pt formation and TiO2â€" vacancy engineering. Chinese Chemical Letters, 2022, 33, 1001-1005.	9.0	14
52	Sb₂S₃ nanoparticles anchored on SnO₂ nanofibers: a high-performance hybrid electrocatalyst toward ammonia synthesis under ambient conditions. Chemical Communications, 2019, 55, 13892-13895.	4.1	13
53	Flexible and tough zirconia-based nanofibrous membranes for thermal insulation. Composites Communications, 2022, 33, 101219.	6.3	13
54	Amorphous NiSb2O6â€" nanofiber: A d-/p-block Janus electrocatalyst toward efficient NH3 synthesis through boosted N2 adsorption and activation. Applied Catalysis B: Environmental, 2022, 308, 121225.	20.2	12

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55	Polymer-assisted assembly of carbon nanotubes via a template-based method. Carbon, 2006, 44, 599-602.	10.3	11
56	Coordinationâ€Driven Hierarchical Assembly of Hybrid Nanostructures Based on 2D Materials. Small, 2020, 16, 1902779.	10.0	11
57	Novel synthesis of Al-amorphized, flexible Fe2O3 nanofibrous membranes for enhanced electrocatalytic H2 evolution. Composites Communications, 2020, 22, 100470.	6.3	11
58	Boron-induced sulfur vacancies in ZnIn2S4 nanosheets coupled to TiO2 nanofibers enhance the hydrogen evolution performance. Composites Communications, 2021, 27, 100903.	6.3	10
59	P-doped WO₃ flowers fixed on a TiO₂ nanofibrous membrane for enhanced electroreduction of N₂. Chemical Communications, 2020, 56, 12937-12940.	4.1	9
60	Black phosphorus quantum dots supported by a conductive polymer nanofibrous membrane: A self-standing, metal-free electrocatalyst for nitrogen fixation. Composites Communications, 2021, 23, 100551.	6.3	8
61	Smart Interfacing between Coâ€Fe Layered Double Hydroxide and Graphitic Carbon Nitride for Highâ€efficiency Electrocatalytic Nitrogen Reduction. Energy and Environmental Materials, 2023, 6, .	12.8	4
62	Conductive and Elastic TiO₂ Nanofibrous Aerogels: A New Concept toward Selfâ€Supported Electrocatalysts with Superior Activity and Durability. Angewandte Chemie, 2020, 132, 23452-23460.	2.0	3
63	Vacancy-enhanced Mo-N2 interaction in MoSe2 nanosheets enables efficient electrocatalytic NH3 synthesis. Chinese Chemical Letters, 2023, 34, 107282.	9.0	3
64	Boosting High-Rate Lithium Storage of V2 O5 Nanowires by Self-Assembly on N-Doped Graphene Nanosheets. ChemElectroChem, 2016, 3, 1729-1729.	3.4	2
65	Elastic and conductive MWCNT/SBS nanocomposites as superior piezoresistive sensors. Micro and Nano Letters, 2017, 12, 17-19.	1.3	2
66	Field Emission Characteristics of Carbon Nanotube Films Fabricated by Different Methods. , 2006, , .		0
67	Preparation and NRR application of transition metal nanosheets on carbon nanofiber membranes. Journal of Physics: Conference Series, 2021, 1948, 012222.	0.4	0
68	Nickel antimony oxide (NiSb2O6) nanofibers: amorphization and electrocatalytic nitrogen fixation under ambient conditions. Journal of Physics: Conference Series, 2021, 2021, 012076.	0.4	0