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	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
2	Vacancy-enhanced Mo-N2 interaction in MoSe2 nanosheets enables efficient electrocatalytic NH3 synthesis. Chinese Chemical Letters, 2023, 34, 107282.	9.0	3
3	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
4	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
5	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
6	Direct synthesis of highly stretchable ceramic nanofibrous aerogels via 3D reaction electrospinning. Nature Communications, 2022, 13, 2637.	12.8	61
7	Flexible and tough zirconia-based nanofibrous membranes for thermal insulation. Composites Communications, 2022, 33, 101219.	6.3	13
8	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
9	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
10	Preparation and NRR application of transition metal nanosheets on carbon nanofiber membranes. Journal of Physics: Conference Series, 2021, 1948, 012222.	0.4	0
11	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
12	Boron-induced sulfur vacancies in ZnIn2S4 nanosheets coupled to TiO2 nanofibers enhance the hydrogen evolution performance. Composites Communications, 2021, 27, 100903.	6.3	10
13	Nickel antimony oxide (NiSb2O6) nanofibers: amorphization and electrocatalytic nitrogen fixation under ambient conditions. Journal of Physics: Conference Series, 2021, 2021, 012076.	0.4	0
14	Coordinationâ€Driven Hierarchical Assembly of Hybrid Nanostructures Based on 2D Materials. Small, 2020, 16, 1902779.	10.0	11
15	Novel synthesis of Al-amorphized, flexible Fe2O3 nanofibrous membranes for enhanced electrocatalytic H2 evolution. Composites Communications, 2020, 22, 100470.	6.3	11
16	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
17	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
18	P-doped WO₃ flowers fixed on a TiO₂ nanofibrous membrane for enhanced electroreduction of N₂. Chemical Communications, 2020, 56, 12937-12940.	4.1	9

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	GO/PVA nanocomposites with significantly enhanced mechanical properties through metal ion coordination. Chinese Chemical Letters, 2019, 30, 1100-1104.	9.0	18
29	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
30	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
31	Selfâ€Assembly of Transition Metal Oxide Nanostructures on MXene Nanosheets for Fast and Stable Lithium Storage. Advanced Materials, 2018, 30, e1707334.	21.0	467
32	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
33	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
34	Hybrid Architectures based on 2D MXenes and Lowâ€Dimensional Inorganic Nanostructures: Methods, Synergies, and Energyâ€Related Applications. Small, 2018, 14, e1803632.	10.0	54
35	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
36	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

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37	Elastic and conductive MWCNT/SBS nanocomposites as superior piezoresistive sensors. Micro and Nano Letters, 2017, 12, 17-19.	1.3	2
38	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
39	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
40	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
41	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
42	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
43	Boosting Highâ€Rate Lithium Storage of V₂O₅ Nanowires by Selfâ€Assembly on Nâ€Doped Graphene Nanosheets. ChemElectroChem, 2016, 3, 1730-1736.	3.4	30
44	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
45	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
46	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
47	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
48	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
49	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
50	Creating a synergistic interplay between tubular MoS₂ and particulate Fe₃O₄ for improved lithium storage. Chemical Communications, 2015, 51, 11888-11891.	4.1	39
51	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
52	Scalable production of transition metal disulphide/graphite nanoflake composites for high-performance lithium storage. RSC Advances, 2014, 4, 41543-41550.	3.6	26
53	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
54	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

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55	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
56	A universal strategy for the hierarchical assembly of functional 0/2D nanohybrids. Chemical Communications, 2013, 49, 1642.	4.1	34
57	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
58	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
59	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
60	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
61	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
62	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
63	Selective self-assembly of surface-functionalized carbon nanotubes in block copolymer template. Carbon, 2009, 47, 1883-1885.	10.3	22
64	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
65	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
66	Polymer-assisted assembly of carbon nanotubes via a template-based method. Carbon, 2006, 44, 599-602.	10.3	11
67	Noncovalent surface modification of carbon nanotubes for solubility in organic solvents. Carbon, 2006, 44, 1613-1616.	10.3	57
68	Field Emission Characteristics of Carbon Nanotube Films Fabricated by Different Methods. , 2006, , .		0