Tingshuai Li

List of Publications by Citations

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129	4,320	38	60
papers	citations	h-index	g-index
143	6,781	8.2	6.27
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
129	Boosted Electrocatalytic N2 Reduction to NH3 by Defect-Rich MoS2 Nanoflower. *Advanced Energy Materials*, **2018**, 8, 1801357	21.8	371
128	High-Performance Electrohydrogenation of N2 to NH3 Catalyzed by Multishelled Hollow Cr2O3 Microspheres under Ambient Conditions. *ACS Catalysis*, **2018**, 8, 8540-8544	13.1	218
127	Iron-based phosphides as electrocatalysts for the hydrogen evolution reaction: recent advances and future prospects. *Journal of Materials Chemistry A*, **2020**, 8, 19729-19745	13	166
126	Recent Advances in the Development of Water Oxidation Electrocatalysts at Mild pH. *Small*, **2019**, 15, e1805103	11	153
125	S-Doped Carbon Nanospheres: An Efficient Electrocatalyst toward Artificial N2 Fixation to NH3. *Small Methods*, **2019**, 3, 1800251	12.8	135
124	TiO2 nanoparticles□educed graphene oxide hybrid: an efficient and durable electrocatalyst toward artificial N2 fixation to NH3 under ambient conditions. *Journal of Materials Chemistry A*, **2018**, 6, 17303-17306	13	127
123	Ambient NH synthesis via electrochemical reduction of N over cubic sub-micron SnO particles. *Chemical Communications*, **2018**, 54, 12966-12969	5.8	115
122	Defect-rich fluorographene nanosheets for artificial N fixation under ambient conditions. *Chemical Communications*, **2019**, 55, 4266-4269	5.8	87
121	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. *Small Structures*, **2021**, 2, 2000048	8.7	86
120	Electrocatalytic N-to-NH conversion with high faradaic efficiency enabled using a Bi nanosheet array. *Chemical Communications*, **2019**, 55, 5263-5266	5.8	84
119	Iron-group electrocatalysts for ambient nitrogen reduction reaction in aqueous media. *Nano Research*, **2021**, 14, 555-569	10	84
118	Boosting electrocatalytic N reduction by MnO with oxygen vacancies. *Chemical Communications*, **2019**, 55, 4627-4630	5.8	83
117	Lewis acid/base approach for efficacious defect passivation in perovskite solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 12201-12225	13	79
116	Recent advances in electrospun nanofibers for supercapacitors. *Journal of Materials Chemistry A*, **2020**, 8, 16747-16789	13	79
115	Electrochemical non-enzymatic glucose sensors: recent progress and perspectives. *Chemical Communications*, **2020**, 56, 14553-14569	5.8	79
114	Honeycomb Carbon Nanofibers: A Superhydrophilic O -Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. *Angewandte Chemie - International Edition*, **2021**, 60, 10583-10587	16.4	76
113	Emerging alkali metal ion (Li+, Na+, K+ and Rb+) doped perovskite films for efficient solar cells: recent advances and prospects. *Journal of Materials Chemistry A*, **2019**, 7, 24150-24163	13	71

112	Mn3O4 nanoparticles@reduced graphene oxide composite: An efficient electrocatalyst for artificial N2 fixation to NH3 at ambient conditions. *Nano Research*, **2019**, 12, 1093-1098	10	66
111	Metal-based electrocatalytic conversion of CO2 to formic acid/formate. *Journal of Materials Chemistry A*, **2020**, 8, 21947-21960	13	54
110	A magnetron sputtered Mo3Si thin film: an efficient electrocatalyst for N2 reduction under ambient conditions. *Journal of Materials Chemistry A*, **2021**, 9, 884-888	13	53
109	A Biomass-Derived Carbon-Based Electrocatalyst for Efficient N Fixation to NH under Ambient Conditions. *Chemistry - A European Journal*, **2019**, 25, 1914-1917	4.8	51
108	A Ni-MOF nanosheet array for efficient oxygen evolution electrocatalysis in alkaline media. *Inorganic Chemistry Frontiers*,	6.8	46
107	Noble-metal-free electrospun nanomaterials as electrocatalysts for oxygen reduction reaction. *Materials Today Physics*, **2020**, 15, 100280	8	45
106	Alkylthiol surface engineering: an effective strategy toward enhanced electrocatalytic N2-to-NH3 fixation by a CoP nanoarray. *Journal of Materials Chemistry A*, **2021**, 9, 13861-13866	13	45
105	Electrocatalytic hydrogen peroxide production in acidic media enabled by NiS2 nanosheets. *Journal of Materials Chemistry A*, **2021**, 9, 6117-6122	13	45
104	Commercial indium-tin oxide glass: A catalyst electrode for efficient N2 reduction at ambient conditions. *Chinese Journal of Catalysis*, **2021**, 42, 1024-1029	11.3	44
103	Electrocatalytic N2 Fixation over Hollow VO2 Microspheres at Ambient Conditions. *ChemElectroChem*, **2019**, 6, 1014-1018	4.3	43
102	Recent advances in strategies for highly selective electrocatalytic N2 reduction toward ambient NH3 synthesis. *Current Opinion in Electrochemistry*, **2021**, 29, 100766	7.2	43
101	Methylamine-induced defect-healing and cationic substitution: a new method for low-defect perovskite thin films and solar cells. *Journal of Materials Chemistry C*, **2019**, 7, 10724-10742	7.1	42
100	Anodic oxidation for the degradation of organic pollutants: Anode materials, operating conditions and mechanisms. A mini review. *Electrochemistry Communications*, **2021**, 123, 106912	5.1	42
99	High-Performance Electrochemical NO Reduction into NH by MoS Nanosheet. *Angewandte Chemie - International Edition*, **2021**, 60, 25263-25268	16.4	42
98	Electrospun TiC/C nanofibers for ambient electrocatalytic N2 reduction. *Journal of Materials Chemistry A*, **2019**, 7, 19657-19661	13	41
97	Ionic liquids engineering for high-efficiency and stable perovskite solar cells. *Chemical Engineering Journal*, **2020**, 398, 125594	14.7	41
96	Magnetron sputtering enabled sustainable synthesis of nanomaterials for energy electrocatalysis. *Green Chemistry*, **2021**, 23, 2834-2867	10	40
95	Recent Progress in Electrocatalytic Methanation of CO2 at Ambient Conditions. *Advanced Functional Materials*, **2021**, 31, 2009449	15.6	40

94	Off-Stoichiometric Methylammonium Iodide Passivated Large-Grain Perovskite Film in Ambient Air for Efficient Inverted Solar Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 39882-39889	9.5	39
93	Se?C Bonding Promoting Fast and Durable Na Storage in Yolk-Shell SnSe @Se?C. *Small*, **2020**, 16, e2002486	13	39
92	Constructing a hollow microflower-like ZnS/CuS@C heterojunction as an effective ion-transport booster for an ultrastable and high-rate sodium storage anode. *Journal of Materials Chemistry A*, **2021**, 9, 6402-6412	13	39
91	Solid oxide fuel cell interconnect design optimization considering the thermal stresses. *Science Bulletin*, **2016**, 61, 1333-1344	10.6	38
90	TiB2 thin film enabled efficient NH3 electrosynthesis at ambient conditions. *Materials Today Physics* , **2021**, 18, 100396	8	37
89	NiFe Layered-Double-Hydroxide Nanosheet Arrays on Graphite Felt: A 3D Electrocatalyst for Highly Efficient Water Oxidation in Alkaline Media. *Inorganic Chemistry*, **2021**, 60, 12703-12708	5.1	36
88	Recent Advances in Nonprecious Metal Oxide Electrocatalysts and Photocatalysts for N2 Reduction Reaction under Ambient Condition. *Small Science*, **2021**, 1, 2000069		33
87	CuS concave polyhedral superstructures enabled efficient N2 electroreduction to NH3 at ambient conditions. *Inorganic Chemistry Frontiers*,	6.8	32
86	CrC Nanoparticle-Embedded Carbon Nanofiber for Artificial Synthesis of NH through N Fixation under Ambient Conditions. *ACS Applied Materials & Interfaces*, **2019**, 11, 35764-35769	9.5	30
85	Electrochemical synthesis of ammonia by zirconia-based catalysts at ambient conditions. *Applied Catalysis A: General*, **2019**, 581, 116-122	5.1	30
84	DyF : An Efficient Electrocatalyst for N Fixation to NH under Ambient Conditions. *Chemistry - an Asian Journal*, **2020**, 15, 487-489	4.5	30
83	Ambient ammonia production via electrocatalytic nitrite reduction catalyzed by a CoP nanoarray. *Nano Research*,1	10	30
82	Vacancy defect modulation in hot-casted NiO film for efficient inverted planar perovskite solar cells. *Journal of Energy Chemistry*, **2020**, 48, 426-434	12	29
81	Bioinspired Electrocatalyst for Electrochemical Reduction of N to NH in Ambient Conditions. *ACS Applied Materials & Interfaces*, **2020**, 12, 2445-2451	9.5	28
80	Progress and perspective of metal phosphide/carbon heterostructure anodes for rechargeable ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 11879-11907	13	28
79	Enhancing electrocatalytic N2-to-NH3 fixation by suppressing hydrogen evolution with alkylthiols modified Fe3P nanoarrays. *Nano Research*,1	10	28
78	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo O Nanowire Array.. *Small*, **2022**, e2106961	11	27
77	Coordination modulated crystallization and defect passivation in high quality perovskite film for efficient solar cells. *Coordination Chemistry Reviews*, **2020**, 420, 213408	23.2	26

76	Recent advances in lithium-based batteries using metal organic frameworks as electrode materials. *Electrochemistry Communications*, **2021**, 122, 106881	5.1	25
75	High-efficiency electrochemical nitrite reduction to ammonium using a Cu3P nanowire array under ambient conditions. *Green Chemistry*, **2021**, 23, 5487-5493	10	25
74	Low-cost coenzyme Q10 as an efficient electron transport layer for inverted perovskite solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 18626-18633	13	24
73	CoFe-LDH nanowire arrays on graphite felt: A high-performance oxygen evolution electrocatalyst in alkaline media. *Chinese Chemical Letters*, **2021**,	8.1	24
72	Enhanced Electrochemical HO Production via Two-Electron Oxygen Reduction Enabled by Surface-Derived Amorphous Oxygen-Deficient TiO. *ACS Applied Materials & Interfaces*, **2021**, 13, 33182-33187	9.5	24
71	Cu2Sb decorated Cu nanowire arrays for selective electrocatalytic CO2 to CO conversion. *Nano Research*, **2021**, 14, 2831-2836	10	24
70	Thermal stress analysis of sulfur deactivated solid oxide fuel cells. *Journal of Power Sources*, **2018**, 379, 134-143	8.9	23
69	Superior hydrogen evolution electrocatalysis enabled by CoP nanowire array on graphite felt. *International Journal of Hydrogen Energy*, **2022**, 47, 3580-3586	6.7	22
68	Mechanism of chromium poisoning the conventional cathode material for solid oxide fuel cells. *Journal of Power Sources*, **2018**, 381, 26-29	8.9	21
67	Thermal stress analysis of a planar anode-supported solid oxide fuel cell: Effects of anode porosity. *International Journal of Hydrogen Energy*, **2017**, 42, 20239-20248	6.7	21
66	Bilateral Interfaces in InSe-CoIn-CoSe Heterostructures for High-Rate Reversible Sodium Storage. *ACS Nano*, **2021**,	16.7	21
65	Recent Progress in Metal-Free Electrocatalysts toward Ambient N2 Reduction Reaction. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2020**, 2009043-0	3.8	20
64	High-efficiency electrohydrogenation of nitric oxide to ammonia on a Ni2P nanoarray under ambient conditions. *Journal of Materials Chemistry A*, **2021**, 9, 24268-24275	13	19
63	N-doped carbon nanotubes supported CoSe nanoparticles: A highly efficient and stable catalyst for HO electrosynthesis in acidic media. *Nano Research*, **2021**, 15, 1-6	10	19
62	Electrospun zirconia nanofibers for enhancing the electrochemical synthesis of ammonia by artificial nitrogen fixation. *Journal of Materials Chemistry A*, **2021**, 9, 2145-2151	13	19
61	Practical strategies for enhanced performance of anode materials in Na+/K+-ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 7317-7335	13	19
60	High-efficiency nitrate electroreduction to ammonia on electrodeposited cobalt-phosphorus alloy film. *Chemical Communications*, **2021**, 57, 9720-9723	5.8	19
59	An amorphous WC thin film enabled high-efficiency N reduction electrocatalysis under ambient conditions. *Chemical Communications*, **2021**, 57, 7806-7809	5.8	19

58	MnO2 nanoarray with oxygen vacancies: An efficient catalyst for NO electroreduction to NH3 at ambient conditions. *Materials Today Physics*, **2021**, 22, 100586	8	18
57	In situ grown Fe3O4 particle on stainless steel: A highly efficient electrocatalyst for nitrate reduction to ammonia. *Nano Research*,1	10	17
56	Plasma-induced defective TiO2-x with oxygen vacancies: A high-active and robust bifunctional catalyst toward H2O2 electrosynthesis. *Chem Catalysis*, **2021**,		17
55	Electrochemical Synthesis of Ammonia Based on a Perovskite LaCrO3 Catalyst. *ChemCatChem*, **2020**, 12, 731-735	5.2	17
54	NiP nanosheet array for high-efficiency electrohydrogenation of nitrite to ammonia at ambient conditions. *Journal of Colloid and Interface Science*, **2022**, 606, 1055-1063	9.3	17
53	Enhanced electrocatalytic N-to-NH fixation by ZrS nanofibers with a sulfur vacancy. *Chemical Communications*, **2020**, 56, 14031-14034	5.8	16
52	Precise control of PbI2 excess into grain boundary for efficacious charge extraction in off-stoichiometric perovskite solar cells. *Electrochimica Acta*, **2020**, 338, 135697	6.7	14
51	High-performance NH production NO electroreduction over a NiO nanosheet array. *Chemical Communications*, **2021**,	5.8	14
50	Greatly Facilitated Two-Electron Electroreduction of Oxygen into Hydrogen Peroxide over TiO by Mn Doping. *ACS Applied Materials & Interfaces*, **2021**, 13, 46659-46664	9.5	14
49	La-doped TiO2 nanorods toward boosted electrocatalytic N2-to-NH3 conversion at ambient conditions. *Chinese Journal of Catalysis*, **2021**, 42, 1755-1762	11.3	14
48	The Mechanism of H[sub 2]S Poisoning Ni/YSZ Electrode Studied by Impedance Spectroscopy. *Electrochemical and Solid-State Letters*, **2011**, 14, B35		13
47	Amorphous Boron Carbide on Titanium Dioxide Nanobelt Arrays for High-Efficiency Electrocatalytic NO Reduction to NH3.. *Angewandte Chemie - International Edition*, **2022**,	16.4	13
46	Random laser action from a natural flexible biomembrane-based device. *Journal of Modern Optics*, **2016**, 1-6	1.1	12
45	Bi nanodendrites for highly efficient electrocatalytic NO reduction to NH3 at ambient conditions. *Materials Today Physics*, **2022**, 22, 100611	8	12
44	Honeycomb Carbon Nanofibers: A Superhydrophilic O2-Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. *Angewandte Chemie*, **2021**, 133, 10677-10681	3.6	12
43	Co-MOF Nanosheet Arrays for Efficient Alkaline Oxygen Evolution Electrocatalysis. *ChemNanoMat*, **2021**, 7, 906-909	3.5	11
42	2D Vanadium Carbide (MXene) for Electrochemical Synthesis of Ammonia Under Ambient Conditions. *Catalysis Letters*, **2021**, 151, 3516	2.8	10
41	High-efficiency ammonia electrosynthesis on self-supported Co2AlO4 nanoarray in neutral media by selective reduction of nitrate. *Chemical Engineering Journal*, **2022**, 435, 135104	14.7	9

40	Functional integration of hierarchical core–shell architectures via vertically arrayed ultrathin CuSe nanosheets decorated on hollow CuS microcages targeting highly effective sodium-ion storage. *Journal of Materials Chemistry A*, **2021**, 9, 27615-27628	13	9
39	CoTe nanoparticle-embedded N-doped hollow carbon polyhedron: an efficient catalyst for H2O2 electrosynthesis in acidic media. *Journal of Materials Chemistry A*,	13	9
38	Ambient electrochemical N2-to-NH3 conversion catalyzed by TiO2 decorated juncus effusus-derived carbon microtubes. *Inorganic Chemistry Frontiers*, **2022**, 9, 1514-1519	6.8	9
37	High-Performance Electrochemical NO Reduction into NH3 by MoS2 Nanosheet. *Angewandte Chemie*,	3.6	8
36	Random laser action from ceramic-doped polymer films. *Journal of Modern Optics*, **2017**, 64, 1289-1297	1.1	7
35	Analysis of electromagnetic pulses generation from laser coupling with polymer targets: Effect of metal content in target. *Matter and Radiation at Extremes*, **2020**, 5, 017401	4.7	7
34	Effect of the Electrochemical Active Site on Thermal Stress in Solid Oxide Fuel Cells. *Journal of the Electrochemical Society*, **2018**, 165, F105-F113	3.9	7
33	Electrochemical two-electron O2 reduction reaction toward H2O2 production: using cobalt porphyrin decorated carbon nanotubes as a nanohybrid catalyst. *Journal of Materials Chemistry A*, **2021**, 9, 26019-26027	13	7
32	Thermal stress analysis at the interface of cathode and electrolyte in solid oxide fuel cells. *International Communications in Heat and Mass Transfer*, **2020**, 118, 104831	5.8	7
31	Magnetron sputtering enabled synthesis of nanostructured materials for electrochemical energy storage. *Journal of Materials Chemistry A*, **2020**, 8, 20260-20285	13	7
30	Conductive Two-Dimensional Magnesium Metal–Organic Frameworks for High-Efficiency O2 Electroreduction to H2O2. *ACS Catalysis*,6092-6099	13.1	7
29	Investigation into the electromagnetic impulses from long-pulse laser illuminating solid targets inside a laser facility. *Photonic Sensors*, **2016**, 6, 249-255	2.3	6
28	Biomass Juncus derived carbon decorated with cobalt nanoparticles enables high-efficiency ammonia electrosynthesis by nitrite reduction. *Journal of Materials Chemistry A*, **2022**, 10, 2842-2848	13	6
27	Iron-Doped MoO Nanosheets for Boosting Nitrogen Fixation to Ammonia at Ambient Conditions. *ACS Applied Materials & Interfaces*, **2021**, 13, 7142-7151	9.5	6
26	Thermal Stress Analysis of Solid Oxide Fuel Cells with Chromium Poisoning Cathodes. *Journal of the Electrochemical Society*, **2018**, 165, F1224-F1231	3.9	6
25	Temperature control strategy for polymer electrolyte fuel cells. *International Journal of Energy Research*, **2020**, 44, 4352-4365	4.5	5
24	Electromagnetic radiations from laser interaction with gas-filled Hohlraum. *Laser Physics Letters*, **2018**, 15, 016101	1.5	5
23	Iron-doped cobalt oxide nanoarray for efficient electrocatalytic nitrate-to-ammonia conversion.. *Journal of Colloid and Interface Science*, **2022**, 615, 636-642	9.3	5

22	Dynamic modelling and controlling strategy of polymer electrolyte fuel cells. *International Journal of Hydrogen Energy*, **2020**, 45, 29718-29729	6.7	5
21	Zinc doped Fe2O3 for boosting Electrocatalytic Nitrogen Fixation to ammonia under mild conditions. *International Journal of Hydrogen Energy*, **2021**, 46, 14331-14337	6.7	5
20	Highly Efficient Na+ Storage in Uniform Thorn Ball-Like □MnSe/C Nanospheres. *Acta Metallurgica Sinica (English Letters)*, **2021**, 34, 373-382	2.5	5
19	Recent advances in MoS-based materials for electrocatalysis.. *Chemical Communications*, **2022**,	5.8	4
18	Diffusion parameter correlations for PEFC gas diffusion layers considering the presence of a water-droplet. *International Journal of Hydrogen Energy*, **2020**, 45, 29824-29831	6.7	4
17	Analysis of Thermal Stress in a Solid Oxide Fuel Cell Due to the Sulfur Poisoning Interface of the Electrolyte and Cathode. *Energy & Fuels*, **2021**, 35, 2674-2682	4.1	4
16	Enhancing electromagnetic radiations by a pre-ablation laser during laser interaction with solid target. *Physics of Plasmas*, **2020**, 27, 032705	2.1	3
15	Highly efficient two-electron electroreduction of oxygen into hydrogen peroxide over Cu-doped TiO2. *Nano Research*,1	10	3
14	Ag@TiO2 as an Efficient Electrocatalyst for N2 Fixation to NH3 under Ambient Conditions. *ChemistrySelect*, **2021**, 6, 5271-5274	1.8	3
13	Bi nanoparticles/carbon nanosheet composite: A high-efficiency electrocatalyst for NO reduction to NH3. *Nano Research*,1	10	3
12	Modeling Validation and Simulation of an Anode Supported SOFC Including Mass and Heat Transport, Fluid Flow and Chemical Reactions **2011**,		2
11	Effective electromagnetic shielding with multi-layer structure material on Shenguang laser facility. *Plasma Science and Technology*, **2020**, 22, 025601	1.5	2
10	A Detailed Analysis of Internal Resistance of a PEFC Comparing High and Low Humidification of the Reactant Gases. *Frontiers in Energy Research*, **2020**, 8,	3.8	2
9	Numerical simulation of solid oxide fuel cells comparing different electrochemical kinetics. *International Journal of Energy Research*, **2021**, 45, 12980-12995	4.5	2
8	Monodisperse Cu Cluster-Loaded Defective ZrO Nanofibers for Ambient N Fixation to NH. *ACS Applied Materials & Interfaces*, **2021**, 13, 40724-40730	9.5	2
7	Electrocatalytic H2O2 production via two-electron O2 reduction by Mo-doped TiO2 nanocrystallines. *Catalysis Science and Technology*, **2021**, 11, 6970-6974	5.5	1
6	Facile electrochemical fabrication of magnetic Fe3O4 for electrocatalytic synthesis of ammonia used for hydrogen storage application. *International Journal of Hydrogen Energy*, **2021**, 46, 24128-24134	6.7	1
5	Parametric study for electrode microstructure influence on SOFC performance. *International Journal of Hydrogen Energy*, **2021**, 46, 37440-37440	6.7	1

4	Spatial and temporal evolution of electromagnetic pulses generated at Shenguang-II series laser facilities. *Plasma Science and Technology*, **2021**, 23, 115202	1.5	1
3	Characterization of a quasi-sinusoidal transmission grating without membrane substrate in the 200–1500 eV photon energy regions. *Journal of Modern Optics*, **2016**, 63, 261-268	1.1	0
2	Generation and regulation of electromagnetic pulses induced by hybrid laser pulses interacting with solid targets. *Nuclear Fusion*, **2022**, 62, 066006	3.3	0
1	A-Asterisk Algorithm as an Alternative to Evaluate the Geometric Tortuosity in Digitally Created SOFC Anodes. *ECS Transactions*, **2021**, 103, 1665-1671	1	