

Zhi Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

13,298
citations

50
h-index

106
g-index

106
ext. papers

15,720
ext. citations

13.9
avg, IF

6.57
L-index

#	Paper	IF	Citations
95	Square-pyramidal Fe-N ₄ with defect-modulated O-coordination: Two-tier electronic structure fine-tuning for enhanced oxygen reduction. <i>Chem Catalysis</i> , 2022 ,		4
94	Flame normalizing-induced robust and oriented metallic layer for stable Zn anode. <i>Chemical Engineering Journal</i> , 2022 , 437, 135246	14.7	1
93	Localized anisotropic stress in the sodiation of antimony anode. <i>Nano Energy</i> , 2022 , 98, 107349	17.1	
92	1T MoS ₂ growth from exfoliated MoS ₂ nucleation as high rate anode for sodium storage. <i>Nanotechnology</i> , 2021 , 33,	3.4	1
91	X-Ray Spectromicroscopy Investigation of Heterogeneous Sodiation in Hard Carbon Nanosheets with Vertically Oriented (002) Planes. <i>Small</i> , 2021 , 17, e2102109	11	1
90	Enhanced Stable and High Voltage of Li/SOCl ₂ Battery Catalyzed by FePc Particulates Fixed on Activated Carbon Substrates. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 100528	3.9	2
89	Tridentate citrate chelation towards stable fiber zinc-polypyrrole battery with hybrid mechanism. <i>Energy Storage Materials</i> , 2021 , 43, 585-594	19.4	8
88	-like Mo and N Codoped Graphitic Nanosheets by In Situ Carbonization of Phthalocyanine for Potassium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30583-30593	9.5	5
87	Fabricating polyoxometalates-stabilized single-atom site catalysts in confined space with enhanced activity for alkynes diboration. <i>Nature Communications</i> , 2021 , 12, 4205	17.4	21
86	Porous Fe ₂ O ₃ nanoparticle decorated with atomically dispersed platinum: Study on atomic site structural change and gas sensor activity evolution. <i>Nano Research</i> , 2021 , 14, 1435-1442	10	17
85	Interface-Engineered Dendrite-Free Anode and Ultraconductive Cathode for Durable and High-Rate Fiber Zn Dual-Ion Microbattery. <i>Advanced Functional Materials</i> , 2021 , 31, 2008894	15.6	10
84	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , 2020 , 12, 764-772	17.6	207
83	Engineering unsymmetrically coordinated Cu-SN single atom sites with enhanced oxygen reduction activity. <i>Nature Communications</i> , 2020 , 11, 3049	17.4	210
82	Space-confined construction of nitrogen-rich cobalt porphyrin-derived nanoparticulates anchored on activated carbon for high-current lithium thionyl chloride battery. <i>Electrochimica Acta</i> , 2020 , 353, 136543	6.7	5
81	Au@Pt Nanotubes within CoZn-Based Metal-Organic Framework for Highly Efficient Semi-hydrogenation of Acetylene. <i>iScience</i> , 2020 , 23, 101233	6.1	9
80	Fabricating Pd isolated single atom sites on C ₃ N ₄ /rGO for heterogenization of homogeneous catalysis. <i>Nano Research</i> , 2020 , 13, 947-951	10	41
79	Single-atom Rh/N-doped carbon electrocatalyst for formic acid oxidation. <i>Nature Nanotechnology</i> , 2020 , 15, 390-397	28.7	208

78	Enhanced Nucleation of LiCl during Lithium Battery Discharging with Carbon Nanotubes Supported Nitrogen-Rich Manganese Phthalocyanine Catalysts. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 040506	3.9	3
77	Walnut-like MoO with interconnected skeleton and opened multi-channel for fast sodium storage. <i>Nanotechnology</i> , 2020 , 31, 475405	3.4	1
76	Well-Defined Materials for Heterogeneous Catalysis: From Nanoparticles to Isolated Single-Atom Sites. <i>Chemical Reviews</i> , 2020 , 120, 623-682	68.1	407
75	Single-atom Sn-Zn pairs in CuO catalyst promote dimethyldichlorosilane synthesis. <i>National Science Review</i> , 2020 , 7, 600-608	10.8	16
74	Tribo-Tunneling DC Generator with Carbon Aerogel/Silicon Multi-Nanocontacts. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900464	6.4	23
73	Scaled-up Direct-Current Generation in MoS Multilayer-Based Moving Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35404-35409	9.5	25
72	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9305-9311	16.4	124
71	Defective Lithium Storage Boosts High Rate and Long-Life Span of Carbon Fibers. <i>ChemistrySelect</i> , 2019 , 4, 5768-5775	1.8	2
70	Atomically Dispersed Ruthenium Species Inside Metal-Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4271-4275	16.4	92
69	Atomically Dispersed Ruthenium Species Inside Metal-Organic Frameworks: Combining the High Activity of Atomic Sites and the Molecular Sieving Effect of MOFs. <i>Angewandte Chemie</i> , 2019 , 131, 4315-4319	3.6	12
68	Separation and Quantum Tunneling of Photo-generated Carriers Using a Tribo-Induced Field. <i>Matter</i> , 2019 , 1, 650-660	12.7	31
67	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. <i>Chemical Science</i> , 2019 , 11, 786-790	9.4	64
66	Interfacial friction-induced electronic excitation mechanism for tribo-tunneling current generation. <i>Materials Horizons</i> , 2019 , 6, 1020-1026	14.4	46
65	Atomic interface effect of a single atom copper catalyst for enhanced oxygen reduction reactions. <i>Energy and Environmental Science</i> , 2019 , 12, 3508-3514	35.4	146
64	Anomalous interfacial stress generation during sodium intercalation/extraction in MoS thin-film anodes. <i>Science Advances</i> , 2019 , 5, eaav2820	14.3	50
63	Almond-derived origami-like hierarchically porous and N/O co-functionalized carbon sheet for high-performance supercapacitor. <i>Applied Surface Science</i> , 2019 , 467-468, 229-235	6.7	38
62	Synthesis of Grain-like MoS for High-Performance Sodium-Ion Batteries. <i>ChemSusChem</i> , 2018 , 11, 2130-2137	2.3	30
61	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2018 , 30, e1800588	24	338

60	Sustained electron tunneling at unbiased metal-insulator-semiconductor triboelectric contacts. <i>Nano Energy</i> , 2018 , 48, 320-326	17.1	68
59	Edge-Rich Quasi-Mesoporous Nitrogen-Doped Carbon Framework Derived from Palm Tree Bark Hair for Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27047-27055	9.5	31
58	Self-Integrated Porous Leaf-like CuO Nanoplate Array-Based Anodes for High-Performance Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2018 , 5, 2774-2780	4.3	13
57	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018 , 13, 856-861	28.7	471
56	Sulfur nanodots as MoS ₂ antiblocking agent for stable sodium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10535-10542	13	40
55	Elemental Sulfur Nanoparticles Chemically Boost the Sodium Storage Performance of MoS ₂ /rGO Anodes. <i>Batteries and Supercaps</i> , 2018 , 1, 184-191	5.6	6
54	Two-dimensional SnO ₂ /graphene heterostructures for highly reversible electrochemical lithium storage. <i>Science China Materials</i> , 2018 , 61, 1527-1535	7.1	35
53	Discovering Partially Charged Single-Atom Pt for Enhanced Anti-Markovnikov Alkene Hydrosilylation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7407-7410	16.4	147
52	Direct-current triboelectricity generation by a sliding Schottky nanocontact on MoS multilayers. <i>Nature Nanotechnology</i> , 2018 , 13, 112-116	28.7	146
51	Facile Synthesis of ZnS/N,S Co-doped Carbon Composite from Zinc Metal Complex for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 704-712	9.5	75
50	Constructing NiCo/FeO Heteroparticles within MOF-74 for Efficient Oxygen Evolution Reactions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15336-15341	16.4	193
49	One-Pot Pyrolysis to N-Doped Graphene with High-Density Pt Single Atomic Sites as Heterogeneous Catalyst for Alkene Hydrosilylation. <i>ACS Catalysis</i> , 2018 , 8, 10004-10011	13.1	75
48	Photo-driven redox-neutral decarboxylative carbon-hydrogen trifluoromethylation of (hetero)arenes with trifluoroacetic acid. <i>Nature Communications</i> , 2017 , 8, 14353	17.4	52
47	Isolated Single Iron Atoms Anchored on N-Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6937-6941	16.4	1138
46	Isolated Single Iron Atoms Anchored on N-Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2017 , 129, 7041-7045	3.6	241
45	Isolated Single-Atom Pd Sites in Intermetallic Nanostructures: High Catalytic Selectivity for Semihydrogenation of Alkynes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7294-7301	16.4	238
44	Innenrücktitelbild: Isolated Single Iron Atoms Anchored on N-Doped Porous Carbon as an Efficient Electrocatalyst for the Oxygen Reduction Reaction (Angew. Chem. 24/2017). <i>Angewandte Chemie</i> , 2017 , 129, 7107-7107	3.6	5
43	Freestanding hierarchical porous carbon film derived from hybrid nanocellulose for high-power supercapacitors. <i>Nano Research</i> , 2017 , 10, 1847-1860	10	43

42	Formation of Hexagonal-Close Packed (HCP) Rhodium as a Size Effect. <i>Journal of the American Chemical Society</i> , 2017 , 139, 575-578	16.4	42
41	Confined Pyrolysis within Metal-Organic Frameworks To Form Uniform Ru Clusters for Efficient Oxidation of Alcohols. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9795-9798	16.4	157
40	Exceptional energy and new insight with a sodium-selenium battery based on a carbon nanosheet cathode and a pseudographite anode. <i>Energy and Environmental Science</i> , 2017 , 10, 153-165	35.4	155
39	Excellent energy-power characteristics from a hybrid sodium ion capacitor based on identical carbon nanosheets in both electrodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5149-5158	13	144
38	Heteroatom enhanced sodium ion capacity and rate capability in a hydrogel derived carbon give record performance in a hybrid ion capacitor. <i>Nano Energy</i> , 2016 , 23, 129-137	17.1	142
37	Carbonized nanocellulose sustainably boosts the performance of activated carbon in ionic liquid supercapacitors. <i>Nano Energy</i> , 2016 , 25, 161-169	17.1	104
36	Strain-induced electrostatic enhancements of BiFeO ₃ nanowire loops. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22772-7	3.6	6
35	Sodiation vs. lithiation phase transformations in a high rate high stability SnO ₂ in carbon nanocomposite. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7100-7111	13	90
34	High rate SnO ₂ /Graphene Dual Aerogel anodes and their kinetics of lithiation and sodiation. <i>Nano Energy</i> , 2015 , 15, 369-378	17.1	114
33	Coupling In Situ TEM and Ex Situ Analysis to Understand Heterogeneous Sodiation of Antimony. <i>Nano Letters</i> , 2015 , 15, 6339-48	11.5	80
32	Titanium oxynitride interlayer to influence oxygen reduction reaction activity and corrosion stability of Pt and Pt-Ni alloy. <i>ChemSusChem</i> , 2015 , 8, 361-76	8.3	8
31	Peanut shell hybrid sodium ion capacitor with extreme energy-power rivals lithium ion capacitors. <i>Energy and Environmental Science</i> , 2015 , 8, 941-955	35.4	622
30	Tin and Tin Compounds for Sodium Ion Battery Anodes: Phase Transformations and Performance. <i>Accounts of Chemical Research</i> , 2015 , 48, 1657-65	24.3	379
29	Anodes for sodium ion batteries based on tin-germanium-antimony alloys. <i>ACS Nano</i> , 2014 , 8, 4415-29	16.7	273
28	Lithium ion battery applications of molybdenum disulfide (MoS ₂) nanocomposites. <i>Energy and Environmental Science</i> , 2014 , 7, 209-231	35.4	1017
27	Colossal pseudocapacitance in a high functionality high surface area carbon anode doubles the energy of an asymmetric supercapacitor. <i>Energy and Environmental Science</i> , 2014 , 7, 1708-1718	35.4	320
26	Sulfur Refines MoO ₂ Distribution Enabling Improved Lithium Ion Battery Performance. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18387-18396	3.8	89
25	Hybrid device employing three-dimensional arrays of MnO in carbon nanosheets bridges battery-supercapacitor divide. <i>Nano Letters</i> , 2014 , 14, 1987-94	11.5	249

24	Tailoring Biomass-Derived Carbon Nanoarchitectures for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2014 , 1, 332-337	4.3	66
23	Thermally stable gold/alumina aerogel catalysts prepared by a simultaneous synthesis process for solvent-free aerobic benzyl alcohol oxidation. <i>Catalysis Science and Technology</i> , 2014 , 4, 2520-2525	5.5	15
22	Carbon nanosheet frameworks derived from peat moss as high performance sodium ion battery anodes. <i>ACS Nano</i> , 2013 , 7, 11004-15	16.7	705
21	Mesoporous nitrogen-rich carbons derived from protein for ultra-high capacity battery anodes and supercapacitors. <i>Energy and Environmental Science</i> , 2013 , 6, 871	35.4	872
20	Supercapacitors based on carbons with tuned porosity derived from paper pulp mill sludge biowaste. <i>Carbon</i> , 2013 , 57, 317-328	10.4	129
19	Interconnected carbon nanosheets derived from hemp for ultrafast supercapacitors with high energy. <i>ACS Nano</i> , 2013 , 7, 5131-41	16.7	760
18	Highly corrosion resistant platinum-bismuth oxide-carbon nanotube electrodes for the oxygen reduction in PEM fuel cells. <i>Energy and Environmental Science</i> , 2012 , 5, 6156	35.4	87
17	Graphene-nickel cobaltite nanocomposite asymmetrical supercapacitor with commercial level mass loading. <i>Nano Research</i> , 2012 , 5, 605-617	10	321
16	Electrochemical Supercapacitor Electrodes from Sponge-like Graphene Nanoarchitectures with Ultrahigh Power Density. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2928-33	6.4	157
15	Supercapacitive carbon nanotube-cobalt molybdate nanocomposites prepared via solvent-free microwave synthesis. <i>RSC Advances</i> , 2012 , 2, 2753	3.7	102
14	Carbonized Chicken Eggshell Membranes with 3D Architectures as High-Performance Electrode Materials for Supercapacitors. <i>Advanced Energy Materials</i> , 2012 , 2, 431-437	21.8	510
13	Carbonized Chicken Eggshell Membranes with 3D Architectures as High-Performance Electrode Materials for Supercapacitors (Adv. Energy Mater. 4/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 430-430	21.8	8
12	Experimental and DFT studies of gold nanoparticles supported on MgO(111) nano-sheets and their catalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2582-9	3.6	34
11	Sol-gel-entrapped nano silver catalysts-correlation between active silver species and catalytic behavior. <i>Journal of Catalysis</i> , 2010 , 272, 92-100	7.3	60
10	Size tunable gold nanorods evenly distributed in the channels of mesoporous silica. <i>ACS Nano</i> , 2008 , 2, 1205-12	16.7	51
9	Heterogeneous gold catalysts for efficient access to functionalized lactones. <i>Chemistry - A European Journal</i> , 2008 , 14, 9412-8	4.8	58
8	Preparation and Surface Activity of Single-Crystalline NiO(111) Nanosheets with Hexagonal Holes: A Semiconductor Nanospanner. <i>Advanced Materials</i> , 2008 , 20, 267-271	24	81
7	Gold tubes membrane with novel morphology replicated from ZnO template. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1765-1772	3.3	10

6	A simple method for selective immobilization of silver nanoparticles. <i>Applied Surface Science</i> , 2005 , 250, 109-116	6.7	42
5	Oxidation Catalysis by Nanoscale Gold, Silver, and Copper	333-364	1
4	Atomically dispersed Ni anchored on polymer-derived mesh-like N-doped carbon nanofibers as an efficient CO ₂ electrocatalytic reduction catalyst. <i>Nano Research</i> , 1	10	2
3	Carbon nanosheets derived from reconstructed lignin for potassium and sodium storage with low voltage hysteresis. <i>Nano Research</i> , 1	10	9
2	Large-scale doping-engineering enables boron/nitrogen dual-doped porous carbon for high-performance zinc ion capacitors. <i>Rare Metals</i> , 1	5.5	4
1	Spatially Confined Edge-to-Edge Strategy for Achieving Compact Na ⁺ /K ⁺ Storage: Constructing Hetero-Ni/Ni ₃ S ₂ in Densified Carbons. <i>Advanced Functional Materials</i> , 2203291	15.6	2