

Lijun Yang

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

106
papers

8,209
citations

37
h-index

90
g-index

114
ext. papers

9,479
ext. citations

11
avg, IF

6.14
L-index

#	Paper	IF	Citations
106	The influence of crack on the Si anode performance in Na- and Mg-ion batteries: An atomic multiscale study. <i>Computational Materials Science</i> , 2022 , 205, 111237	3.2	0
105	The Composite-Template Method to Construct Hierarchical Carbon Nanocages for Supercapacitors with Ultrahigh Energy and Power Densities.. <i>Small</i> , 2022 , e2107082	11	1
104	Thermally Conductive AlN-Network Shield for Separators to Achieve Dendrite-Free Plating and Fast Li-Ion Transport toward Durable and High-Rate Lithium-Metal Anodes.. <i>Advanced Science</i> , 2022 , e2200411	13.6	2
103	Tuning metal catalysts via nitrogen-doped nanocarbons for energy chemistry: From metal nanoparticles to single metal sites. <i>EnergyChem</i> , 2021 , 3, 100066	36.9	3
102	Enlarging ion-transfer micropore channels of hierarchical carbon nanocages for ultrahigh energy and power densities. <i>Science China Materials</i> , 2021 , 64, 2173-2181	7.1	4
101	Revealing the importance of kinetics in N-coordinated dual-metal sites catalyzed oxygen reduction reaction. <i>Journal of Catalysis</i> , 2021 , 396, 215-223	7.3	15
100	An In-Depth Theoretical Exploration of Influences of Non-Metal-Elements Doping on the ORR Performance of Co ₃ N ₄ . <i>ChemCatChem</i> , 2021 , 13, 2303-2310	5.2	2
99	Construction of hierarchical FeNi ₃ @(Fe,Ni) ₂ S ₂ core-shell heterojunctions for advanced oxygen evolution. <i>Nano Research</i> , 2021 , 14, 4220	10	9
98	Nonmacrocylic Iron(II) Soluble Redox Mediators Leading to High-Rate Li ₂ O ₂ Battery. <i>CCS Chemistry</i> , 2021 , 3, 1350-1358	7.2	2
97	Atomic mechanism of the distribution and diffusion of lithium in a cracked Si anode. <i>Scripta Materialia</i> , 2021 , 197, 113807	5.6	2
96	Hierarchical Carbon Nanocages as Efficient Catalysts for Oxidative Coupling of Benzylamine to N-Benzylidene Benzylamine. <i>Acta Chimica Sinica</i> , 2021 , 79, 539	3.3	1
95	Constructing monolithic sulfur cathodes with multifunctional N,P dual-doped carbon nanocages to achieve high-area-capacity lithium-sulfur batteries. <i>FlatChem</i> , 2021 , 28, 100253	5.1	1
94	In situ construction of MoC/VN heterostructured electrocatalysts with strong electron coupling for highly efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021 , 416, 129130	14.7	11
93	Regulation of oxygen vacancy within oxide pyrochlores by F-doping to boost oxygen-evolution activity. <i>Journal of Power Sources</i> , 2021 , 502, 229903	8.9	5
92	Theoretical Exploration of the Thermodynamic Process Competition between NRR and HER on Transition-Metal-Doped CoP (101) Facets. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17051-17057	3.8	0
91	Carbon Nanocages//Tungsten Trioxide Nanorods Supercapacitors with in situ Polymerized Gel Electrolytes. <i>Acta Chimica Sinica</i> , 2021 , 79, 755	3.3	0
90	First-principles study of catalytic activity of W-doped cobalt phosphide toward the hydrogen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 1698-1705	11.3	7

89	Promoting Effects of Au Submonolayer Shells on Structure-Designed Cu-Pd/Ir Nanospheres: Greatly Enhanced Activity and Durability for Alkaline Ethanol Electro-Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25961-25971	9.5	12
88	Sub-nanometer-scale fine regulation of interlayer distance in Ni ₁₀ layered double hydroxides leading to high-rate supercapacitors. <i>Nano Energy</i> , 2020 , 76, 105026	17.1	38
87	Identifying Iron-Nitrogen/Carbon Active Structures for Oxygen Reduction Reaction under the Effect of Electrode Potential. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2896-2901	6.4	16
86	Advanced Ni-N _x -C single-site catalysts for CO ₂ electroreduction to CO based on hierarchical carbon nanocages and S-doping. <i>Nano Research</i> , 2020 , 13, 2777-2783	10	25
85	Carbon-Based Nanocages: Carbon-Based Nanocages: A New Platform for Advanced Energy Storage and Conversion (Adv. Mater. 27/2020). <i>Advanced Materials</i> , 2020 , 32, 2070206	24	23
84	In situ construction of porous hierarchical (Ni _{3-x} Fe _x)FeN/Ni heterojunctions toward efficient electrocatalytic oxygen evolution. <i>Nano Research</i> , 2020 , 13, 328-334	10	31
83	Cobalt/zinc dual-sites coordinated with nitrogen in nanofibers enabling efficient and durable oxygen reduction reaction in acidic fuel cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3686-3691	13	42
82	Mesostructured carbon-based nanocages: an advanced platform for energy chemistry. <i>Science China Chemistry</i> , 2020 , 63, 665-681	7.9	22
81	Carbon-Based Nanocages: A New Platform for Advanced Energy Storage and Conversion. <i>Advanced Materials</i> , 2020 , 32, e1904177	24	45
80	Hierarchical Carbon Nanocages as the High-performance Cathode for Li-O ₂ Battery Promoted by Soluble Redox Mediator. <i>Acta Chimica Sinica</i> , 2020 , 78, 572	3.3	3
79	Hierarchical Nitrogen-doped Carbon Nanocages as High-rate Long-life Cathode Material for Rechargeable Magnesium Batteries. <i>Acta Chimica Sinica</i> , 2020 , 78, 444	3.3	2
78	Composition-Graded CuPd Nanospheres with Ir-Doped Surfaces on N-Doped Porous Graphene for Highly Efficient Ethanol Electro-Oxidation in Alkaline Media. <i>ACS Catalysis</i> , 2020 , 10, 1171-1184	13.1	53
77	A general strategy to construct yolk-shelled metal oxides inside carbon nanocages for high-stable lithium-ion battery anodes. <i>Nano Energy</i> , 2020 , 68, 104368	17.1	17
76	Engineering Lower Coordination Atoms onto NiO/Co ₃ O ₄ Heterointerfaces for Boosting Oxygen Evolution Reactions. <i>ACS Catalysis</i> , 2020 , 10, 12376-12384	13.1	95
75	Achieving Ultrahigh Volumetric Energy Storage by Compressing Nitrogen and Sulfur Dual-Doped Carbon Nanocages via Capillarity. <i>Advanced Materials</i> , 2020 , 32, e2004632	24	21
74	Axial ligand effect on the stability of FeNi electrocatalysts for acidic oxygen reduction reaction. <i>Nano Energy</i> , 2020 , 78, 105128	17.1	25
73	Design of Thiazolo[5,4-d]thiazole-Bridged Ionic Covalent Organic Polymer for Highly Selective Oxygen Reduction to H ₂ O ₂ . <i>Chemistry of Materials</i> , 2020 , 32, 8553-8560	9.6	9
72	Effective enhancement of electrochemical energy storage of cobalt-based nanocrystals by hybridization with nitrogen-doped carbon nanocages. <i>Science China Materials</i> , 2019 , 62, 1393-1402	7.1	7

71	Stabilizing the active phase of iron-based Fischer-Tropsch catalysts for lower olefins: mechanism and strategy. <i>Chemical Science</i> , 2019 , 10, 6083-6090	9.4	30
70	Electrocatalysis of S-doped carbon with weak polysulfide adsorption enhances lithium-sulfur battery performance. <i>Chemical Communications</i> , 2019 , 55, 6365-6368	5.8	31
69	The simplest construction of single-site catalysts by the synergism of micropore trapping and nitrogen anchoring. <i>Nature Communications</i> , 2019 , 10, 1657	17.4	144
68	Tungsten-Doped CoP Nanoneedle Arrays Grown on Carbon Cloth as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 5229-5236	4.3	23
67	Construction of Cobalt/Nitrogen/Carbon Electrocatalysts with Highly Exposed Active Sites for Oxygen Reduction Reaction. <i>Acta Chimica Sinica</i> , 2019 , 77, 60	3.3	4
66	Vertically Grown Few-Layer MoS Nanosheets on Hierarchical Carbon Nanocages for Pseudocapacitive Lithium Storage with Ultrahigh-Rate Capability and Long-Term Recyclability. <i>Chemistry - A European Journal</i> , 2019 , 25, 3843-3848	4.8	8
65	Carbon-Based Metal-Free ORR Electrocatalysts for Fuel Cells: Past, Present, and Future. <i>Advanced Materials</i> , 2019 , 31, e1804799	24	412
64	Efficient synergism of electrocatalysis and physical confinement leading to durable high-power lithium-sulfur batteries. <i>Nano Energy</i> , 2019 , 57, 34-40	17.1	73
63	Hierarchical sulfur and nitrogen co-doped carbon nanocages as efficient bifunctional oxygen electrocatalysts for rechargeable Zn-air battery. <i>Journal of Energy Chemistry</i> , 2019 , 34, 64-71	12	50
62	Spinel Nickel Cobaltite Mesostructures Assembled from Ultrathin Nanosheets for High-Performance Electrochemical Energy Storage. <i>ACS Applied Energy Materials</i> , 2018 , 1, 684-691	6.1	11
61	Encapsulation of Iron Nitride by Fe ₃ N ₄ Shell Enabling Highly Efficient Electroreduction of CO ₂ to CO. <i>ACS Energy Letters</i> , 2018 , 3, 1205-1211	20.1	60
60	Identifying the Active Site of N-Doped Graphene for Oxygen Reduction by Selective Chemical Modification. <i>ACS Energy Letters</i> , 2018 , 3, 986-991	20.1	68
59	Efficient Ternary Synergism of Platinum/Tin Oxide/Nitrogen-Doped Carbon Leading to High-Performance Ethanol Oxidation. <i>ACS Catalysis</i> , 2018 , 8, 8477-8483	13.1	32
58	Tailoring the nano heterointerface of hematite/magnetite on hierarchical nitrogen-doped carbon nanocages for superb oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21313-21319	13	19
57	Co nanoparticle embedded in atomically-dispersed Co-N-C nanofibers for oxygen reduction with high activity and remarkable durability. <i>Nano Energy</i> , 2018 , 52, 485-493	17.1	131
56	Free-Standing Monolithic Sulfur Cathode of Reduced Graphene Oxide Wrapped Sulfur-Filled Carbon Nanocages with High Areal Capacity. <i>Acta Chimica Sinica</i> , 2018 , 76, 627	3.3	8
55	Communication An Organic Solvent System-Assisted Electrodeposition of Highly Active Pt for the Oxygen Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2018 , 165, J3392-J3394	3.9	3
54	Carbon-Based, Metal-Free Catalysts for Electrocatalysis of ORR 2018 , 335-368		2

53	An active and robust Si-Fe/N/C catalyst derived from waste reed for oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 85-93	21.8	62
52	From Carbon-Based Nanotubes to Nanocages for Advanced Energy Conversion and Storage. <i>Accounts of Chemical Research</i> , 2017 , 50, 435-444	24.3	162
51	Compressing Carbon Nanocages by Capillarity for Optimizing Porous Structures toward Ultrahigh-Volumetric-Performance Supercapacitors. <i>Advanced Materials</i> , 2017 , 29, 1700470	24	178
50	Effect of oxygen adsorbability on the control of Li ₂ O ₂ growth in Li-O ₂ batteries: Implications for cathode catalyst design. <i>Nano Energy</i> , 2017 , 36, 68-75	17.1	69
49	Is iron nitride or carbide highly active for oxygen reduction reaction in acidic medium?. <i>Catalysis Science and Technology</i> , 2017 , 7, 51-55	5.5	42
48	Is the rapid initial performance loss of Fe/N/C non precious metal catalysts due to micropore flooding?. <i>Energy and Environmental Science</i> , 2017 , 10, 296-305	35.4	103
47	Porous 3D Few-Layer Graphene-like Carbon for Ultrahigh-Power Supercapacitors with Well-Defined Structure-Performance Relationship. <i>Advanced Materials</i> , 2017 , 29, 1604569	24	310
46	Single Cobalt Atom and N Codoped Carbon Nanofibers as Highly Durable Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2017 , 7, 6864-6871	13.1	189
45	Boosting oxygen reduction activity of spinel CoFe ₂ O ₄ by strong interaction with hierarchical nitrogen-doped carbon nanocages. <i>Science Bulletin</i> , 2017 , 62, 1365-1372	10.6	13
44	Alcohol-Tolerant Platinum Electrocatalyst for Oxygen Reduction by Encapsulating Platinum Nanoparticles inside Nitrogen-Doped Carbon Nanocages. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16664-9	9.5	22
43	Phase-equilibrium-dominated vapor-liquid-solid mechanism: further evidence. <i>Science China Materials</i> , 2016 , 59, 20-27	7.1	2
42	Surface-diffusion enhanced Ga incorporation in ZnO nanowires by oxygen vacancies. <i>Applied Surface Science</i> , 2016 , 361, 221-225	6.7	4
41	Manganese oxide-induced strategy to high-performance iron/nitrogen/carbon electrocatalysts with highly exposed active sites. <i>Nanoscale</i> , 2016 , 8, 8480-5	7.7	28
40	Mesostructured NiO/Ni composites for high-performance electrochemical energy storage. <i>Energy and Environmental Science</i> , 2016 , 9, 2053-2060	35.4	180
39	Morphology and composition evolution of one-dimensional In _x Al _{1-x} N nanostructures induced by the vapour pressure ratio. <i>CrystEngComm</i> , 2016 , 18, 213-217	3.3	3
38	Hierarchical LiNi _x Co _y O ₂ mesostructures as high-performance cathode materials for lithium ion batteries. <i>Journal of Power Sources</i> , 2016 , 326, 279-284	8.9	7
37	Sulfur and Nitrogen Codoped Carbon Tubes as Bifunctional Metal-Free Electrocatalysts for Oxygen Reduction and Hydrogen Evolution in Acidic Media. <i>Chemistry - A European Journal</i> , 2016 , 22, 10261-10261	4.8	49
36	Sulfur and Nitrogen Codoped Carbon Tubes as Bifunctional Metal-Free Electrocatalysts for Oxygen Reduction and Hydrogen Evolution in Acidic Media. <i>Chemistry - A European Journal</i> , 2016 , 22, 10326-9	4.8	49

35	Creation of Ge-Nx-Cy Configures in Carbon Nanotubes: Origin of Enhanced Electrocatalytic Performance for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10383-91	9.5	18
34	Doping sp ² carbon to boost the activity for oxygen reduction in an acidic medium: a theoretical exploration. <i>RSC Advances</i> , 2016 , 6, 48498-48503	3.7	11
33	Advanced non-precious electrocatalyst of the mixed valence CoO _x nanocrystals supported on N-doped carbon nanocages for oxygen reduction. <i>Science China Chemistry</i> , 2015 , 58, 180-186	7.9	17
32	Superionic conductor-mediated growth of ternary ZnCdS nanorods over a wide composition range. <i>Nano Research</i> , 2015 , 8, 584-591	10	24
31	Hydrophilic Hierarchical Nitrogen-Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. <i>Advanced Materials</i> , 2015 , 27, 3541-5	24	573
30	Significant Contribution of Intrinsic Carbon Defects to Oxygen Reduction Activity. <i>ACS Catalysis</i> , 2015 , 5, 6707-6712	13.1	400
29	Hierarchical carbon nanocages as high-rate anodes for Li- and Na-ion batteries. <i>Nano Research</i> , 2015 , 8, 3535-3543	10	64
28	Activity, Performance, and Durability for the Reduction of Oxygen in PEM Fuel Cells, of Fe/N/C Electrocatalysts Obtained from the Pyrolysis of Metal-Organic-Framework and Iron Porphyrin Precursors. <i>Electrochimica Acta</i> , 2015 , 159, 184-197	6.7	104
27	Alloyed CoMo Nitride as High-Performance Electrocatalyst for Oxygen Reduction in Acidic Medium. <i>ACS Catalysis</i> , 2015 , 5, 1857-1862	13.1	149
26	Hierarchical carbon nanocages confining high-loading sulfur for high-rate lithium-sulfur batteries. <i>Nano Energy</i> , 2015 , 12, 657-665	17.1	196
25	Promotion Effects of Nitrogen Doping into Carbon Nanotubes on Supported Iron Fischer-Tropsch Catalysts for Lower Olefins. <i>ACS Catalysis</i> , 2014 , 4, 613-621	13.1	178
24	Multi-scale simulation of the stability and diffusion of lithium in the presence of a 90° partial dislocation in silicon. <i>Journal of Applied Physics</i> , 2014 , 116, 213504	2.5	5
23	Multi-scale simulation of lithium diffusion in the presence of a 30° partial dislocation and stacking fault in Si. <i>Journal of Applied Physics</i> , 2014 , 115, 043532	2.5	6
22	Carbon Nanocages Supported LiFePO ₄ Nanoparticles as High-Performance Cathode for Lithium Ion Batteries. <i>Acta Chimica Sinica</i> , 2014 , 72, 653	3.3	6
21	Synthesis and Electrocatalytic Oxygen Reduction Performance of the Sulfur-Doped Carbon Nanocages. <i>Acta Chimica Sinica</i> , 2014 , 72, 1070	3.3	4
20	Influence of Preparation Methods on Catalytic Performance of Fe/NCNTs Fischer-Tropsch Catalysts. <i>Acta Chimica Sinica</i> , 2014 , 72, 1017	3.3	3
19	Can boron and nitrogen co-doping improve oxygen reduction reaction activity of carbon nanotubes?. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1201-4	16.4	737
18	A mini review on carbon-based metal-free electrocatalysts for oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2013 , 34, 1986-1991	11.3	39

17	Structural and Compositional Regulation of Nitrogen-Doped Carbon Nanotubes with Nitrogen-Containing Aromatic Precursors. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 7811-7817	3.8	18
16	DIFFUSION OF LITHIUM IN SILICON AFFECTED BY 60° MISFIT-DISLOCATION. <i>Modern Physics Letters B</i> , 2013 , 27, 1350168	1.6	3
15	Advanced carbon-based nanotubes/nanocages for energy conversion and storage: synthesis, performance and mechanism 2013 ,		1
14	Carbon nanocages as supercapacitor electrode materials. <i>Advanced Materials</i> , 2012 , 24, 347-52	24	441
13	Supercapacitor Nanostructures: Carbon Nanocages as Supercapacitor Electrode Materials (Adv. Mater. 3/2012). <i>Advanced Materials</i> , 2012 , 24, 346-346	24	6
12	Nitrogen-doped carbon nanocages as efficient metal-free electrocatalysts for oxygen reduction reaction. <i>Advanced Materials</i> , 2012 , 24, 5593-7, 5646	24	629
11	Carbon Nanocages: Nitrogen-Doped Carbon Nanocages as Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reaction (Adv. Mater. 41/2012). <i>Advanced Materials</i> , 2012 , 24, 5646-5646	24	7
10	Growth and characterization of ternary AlGaIn alloy nanocones across the entire composition range. <i>ACS Nano</i> , 2011 , 5, 1291-6	16.7	54
9	Boron-Doped Carbon Nanotubes as Metal-Free Electrocatalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2011 , 123, 7270-7273	3.6	314
8	Boron-doped carbon nanotubes as metal-free electrocatalysts for the oxygen reduction reaction. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7132-5	16.4	983
7	High reaction activity of nitrogen-doped carbon nanotubes toward the electrooxidation of nitric oxide. <i>Chemical Communications</i> , 2011 , 47, 7137-9	5.8	33
6	Convenient immobilization of Pt-Sn bimetallic catalysts on nitrogen-doped carbon nanotubes for direct alcohol electrocatalytic oxidation. <i>Nanotechnology</i> , 2011 , 22, 395401	3.4	23
5	Ge-H empirical potential and simulation of Si epitaxy on Ge(100) by chemical vapor deposition from SiH ₄ . <i>Physical Review B</i> , 2009 , 79,	3.3	6
4	The Influence of the Epitaxial Growth Process Parameters on Layer Characteristics and Device Performance in Si-Passivated Ge pMOSFETs. <i>Journal of the Electrochemical Society</i> , 2009 , 156, H979	3.9	37
3	The Influence of the Epitaxial Growth Process Parameters on Layer Characteristics and Device Performance in Si-passivated Ge pMOSFETs. <i>ECS Transactions</i> , 2009 , 19, 183-194	1	13
2	Atomistic simulation of the 60° dislocation mobility in silicon crystal. <i>Superlattices and Microstructures</i> , 2006 , 40, 113-118	2.8	19
1	Defect-induced deposition of manganese oxides on hierarchical carbon nanocages for high-performance lithium-oxygen batteries. <i>Nano Research</i> , 1	10	0