

Lijun Yang

List of Publications by Year in descending order

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111
papers

10,712
citations

66234

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114
docs citations

114
times ranked

12182
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.4	1
2	Defect-induced deposition of manganese oxides on hierarchical carbon nanocages for high-performance lithium-oxygen batteries. <i>Nano Research</i> , 2022, 15, 4132-4136.	5.8	7
3	The Compositeâ€”Template Method to Construct Hierarchical Carbon Nanocages for Supercapacitors with Ultrahigh Energy and Power Densities. <i>Small</i> , 2022, 18, e2107082.	5.2	10
4	Thermally Conductive AlNâ€”Network Shield for Separators to Achieve Dendriteâ€”Free Plating and Fast Liâ€”ion Transport toward Durable and Highâ€”Rate Lithiumâ€”Metal Anodes. <i>Advanced Science</i> , 2022, 9, e2200411.	5.6	23
5	Confinement and Electrocatalysis of Cerium Fluoride Nanocages to Boost the Lithiumâ€”Sulfur Batteries Performance. <i>Small Structures</i> , 2022, 3, .	6.9	8
6	Boosting faradaic efficiency of CO ₂ electroreduction to CO for Fe [~] N [~] C single-site catalysts by stabilizing Fe ³⁺ sites via F-doping. <i>Nano Research</i> , 2022, 15, 7896-7902.	5.8	27
7	Hierarchical Carbon Nanocages as Efficient Catalysts for Oxidative Coupling of Benzylamine to <i>N</i> -Benzylidene Benzylamine. <i>Acta Chimica Sinica</i> , 2021, 79, 539.	0.5	3
8	Breaking the scaling relationship of ORR on carbon-based single-atom catalysts through building a local collaborative structure. <i>Catalysis Science and Technology</i> , 2021, 11, 7764-7772.	2.1	14
9	Enlarging ion-transfer micropore channels of hierarchical carbon nanocages for ultrahigh energy and power densities. <i>Science China Materials</i> , 2021, 64, 2173-2181.	3.5	10
10	Revealing the importance of kinetics in N-coordinated dual-metal sites catalyzed oxygen reduction reaction. <i>Journal of Catalysis</i> , 2021, 396, 215-223.	3.1	47
11	An Inâ€”Depth Theoretical Exploration of Influences of Nonâ€”Metalâ€”Elements Doping on the ORR Performance of Co [~] gN ₄ . <i>ChemCatChem</i> , 2021, 13, 2303-2310.	1.8	12
12	Construction of hierarchical FeNi ₃ @(Fe,Ni) ₂ core-shell heterojunctions for advanced oxygen evolution. <i>Nano Research</i> , 2021, 14, 4220-4226.	5.8	42
13	Nonmacrocylic Iron(II) Soluble Redox Mediators Leading to High-Rate Liâ€”O ₂ Battery. <i>CCS Chemistry</i> , 2021, 3, 1350-1358.	4.6	5
14	Atomic mechanism of the distribution and diffusion of lithium in a cracked Si anode. <i>Scripta Materialia</i> , 2021, 197, 113807.	2.6	4
15	Constructing monolithic sulfur cathodes with multifunctional N,P dual-doped carbon nanocages to achieve high-areal-capacity lithium-sulfur batteries. <i>FlatChem</i> , 2021, 28, 100253.	2.8	1
16	In situ construction of ¹³ MoC/VN heterostructured electrocatalysts with strong electron coupling for highly efficient hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 416, 129130.	6.6	31
17	Regulation of oxygen vacancy within oxide pyrochlores by F-doping to boost oxygen-evolution activity. <i>Journal of Power Sources</i> , 2021, 502, 229903.	4.0	22
18	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.	1.5	15

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19	Carbon Nanocages//Tungsten Trioxide Nanorods Supercapacitors with <i>in situ</i> Polymerized Gel Electrolytes. <i>Acta Chimica Sinica</i> , 2021, 79, 755.	0.5	2
20	Tuning metal catalysts via nitrogen-doped nanocarbons for energy chemistry: From metal nanoparticles to single metal sites. <i>EnergyChem</i> , 2021, 3, 100066.	10.1	31
21	Silicon acid batteries enabled by a copper catalysed electrochemo-mechanical process. <i>Energy and Environmental Science</i> , 2021, 14, 6672-6677.	15.6	2
22	Carbon-Based Nanocages: A New Platform for Advanced Energy Storage and Conversion. <i>Advanced Materials</i> , 2020, 32, e1904177.	11.1	84
23	Composition-Graded Cu-Pd 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.	5.5	98
24	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.	8.2	32
25	Engineering Lower Coordination Atoms onto NiO/Co ₃ O ₄ Heterointerfaces for Boosting Oxygen Evolution Reactions. <i>ACS Catalysis</i> , 2020, 10, 12376-12384.	5.5	223
26	Achieving Ultrahigh Volumetric Energy Storage by Compressing Nitrogen and Sulfur Dual-Doped Carbon Nanocages via Capillarity. <i>Advanced Materials</i> , 2020, 32, e2004632.	11.1	56
27	Axial ligand effect on the stability of Fe-N-C electrocatalysts for acidic oxygen reduction reaction. <i>Nano Energy</i> , 2020, 78, 105128.	8.2	54
28	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.	3.2	23
29	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.	6.9	18
30	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.	4.0	26
31	Sub-nanometer-scale fine regulation of interlayer distance in Ni-Co layered double hydroxides leading to high-rate supercapacitors. <i>Nano Energy</i> , 2020, 76, 105026.	8.2	77
32	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.	2.1	32
33	Advanced Ni-Nx-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.	5.8	46
34	Carbon-Based Nanocages: Carbon-Based Nanocages: A New Platform for Advanced Energy Storage and Conversion (<i>Adv. Mater.</i> 27/2020). <i>Advanced Materials</i> , 2020, 32, 2070206.	11.1	46
35	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.	5.8	52
36	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.	5.2	76

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37	Mesostructured carbon-based nanocages: an advanced platform for energy chemistry. <i>Science China Chemistry</i> , 2020, 63, 665-681.	4.2	48
38	Hierarchical Nitrogen-doped Carbon Nanocages as High-rate Long-life Cathode Material for Rechargeable Magnesium Batteries. <i>Acta Chimica Sinica</i> , 2020, 78, 444.	0.5	4
39	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.	0.5	4
40	Tungsten-Doped CoP Nanoneedle Arrays Grown on Carbon Cloth as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>ChemElectroChem</i> , 2019, 6, 5229-5236.	1.7	36
41	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.	3.5	8
42	Stabilizing the active phase of iron-based Fischer-Tropsch catalysts for lower olefins: mechanism and strategy. <i>Chemical Science</i> , 2019, 10, 6083-6090.	3.7	41
43	Electrocatalysis of S-doped carbon with weak polysulfide adsorption enhances lithium-sulfur battery performance. <i>Chemical Communications</i> , 2019, 55, 6365-6368.	2.2	45
44	The simplest construction of single-site catalysts by the synergism of micropore trapping and nitrogen anchoring. <i>Nature Communications</i> , 2019, 10, 1657.	5.8	220
45	Vertically Grown Few-Layer MoS ₂ 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.	1.7	11
46	Carbon-Based Metal-Free ORR Electrocatalysts for Fuel Cells: Past, Present, and Future. <i>Advanced Materials</i> , 2019, 31, e1804799.	11.1	649
47	Efficient synergism of electrocatalysis and physical confinement leading to durable high-power lithium-sulfur batteries. <i>Nano Energy</i> , 2019, 57, 34-40.	8.2	104
48	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.	7.1	69
49	Construction of Cobalt/Nitrogen/Carbon Electrocatalysts with Highly Exposed Active Sites for Oxygen Reduction Reaction. <i>Acta Chimica Sinica</i> , 2019, 77, 60.	0.5	8
50	Spinel Nickel Cobaltite Mesostructures Assembled from Ultrathin Nanosheets for High-Performance Electrochemical Energy Storage. <i>ACS Applied Energy Materials</i> , 2018, 1, 684-691.	2.5	14
51	Encapsulation of Iron Nitride by Fe-N-C Shell Enabling Highly Efficient Electroreduction of CO ₂ to CO. <i>ACS Energy Letters</i> , 2018, 3, 1205-1211.	8.8	84
52	Identifying the Active Site of N-Doped Graphene for Oxygen Reduction by Selective Chemical Modification. <i>ACS Energy Letters</i> , 2018, 3, 986-991.	8.8	102
53	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.	1.3	4
54	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.	10.8	78

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55	Efficient Ternary Synergism of Platinum/Tin Oxide/Nitrogen-Doped Carbon Leading to High-Performance Ethanol Oxidation. ACS Catalysis, 2018, 8, 8477-8483.	5.5	44
56	Tailoring the nano heterointerface of hematite/magnetite on hierarchical nitrogen-doped carbon nanocages for superb oxygen reduction. Journal of Materials Chemistry A, 2018, 6, 21313-21319.	5.2	34
57	Co nanoparticle embedded in atomically-dispersed Co-N-C nanofibers for oxygen reduction with high activity and remarkable durability. Nano Energy, 2018, 52, 485-493.	8.2	188
58	Free-Standing Monolithic Sulfur Cathode of Reduced Graphene Oxide Wrapped Sulfur-Filled Carbon Nanocages with High Areal Capacity. Acta Chimica Sinica, 2018, 76, 627.	0.5	10
59	From Carbon-Based Nanotubes to Nanocages for Advanced Energy Conversion and Storage. Accounts of Chemical Research, 2017, 50, 435-444.	7.6	196
60	Compressing Carbon Nanocages by Capillarity for Optimizing Porous Structures toward Ultrahigh Volumetric Performance Supercapacitors. Advanced Materials, 2017, 29, 1700470.	11.1	243
61	Effect of oxygen adsorbability on the control of Li ₂ O ₂ growth in Li-O ₂ batteries: Implications for cathode catalyst design. Nano Energy, 2017, 36, 68-75.	8.2	93
62	Is iron nitride or carbide highly active for oxygen reduction reaction in acidic medium?. Catalysis Science and Technology, 2017, 7, 51-55.	2.1	50
63	Is the rapid initial performance loss of Fe/N/C non precious metal catalysts due to micropore flooding?. Energy and Environmental Science, 2017, 10, 296-305.	15.6	127
64	Porous 3D Few-Layer Graphene-Like Carbon for Ultrahigh Power Supercapacitors with Well-Defined Structure-Performance Relationship. Advanced Materials, 2017, 29, 1604569.	11.1	358
65	Single Cobalt Atom and N Codoped Carbon Nanofibers as Highly Durable Electrocatalyst for Oxygen Reduction Reaction. ACS Catalysis, 2017, 7, 6864-6871.	5.5	256
66	Boosting oxygen reduction activity of spinel CoFe ₂ O ₄ by strong interaction with hierarchical nitrogen-doped carbon nanocages. Science Bulletin, 2017, 62, 1365-1372.	4.3	18
67	Ruthenium Nanoparticles Supported on Hierarchical Nitrogen-Doped Carbon Nanocages for Selective Hydrogenation of Acetophenone in Mild Conditions. Acta Chimica Sinica, 2017, 75, 686.	0.5	4
68	Predicting the growth of $S_{i-3}N_{4-4}$ nanowires by phase-equilibrium-dominated vapor-liquid-solid mechanism. Physical Review Materials, 2017, 1, 013801.	0.9	0
69	Hierarchical Li ₂ Ni ₃ O ₇ mesostructures as high-performance cathode materials for lithium ion batteries. Journal of Power Sources, 2016, 326, 279-284.	4.0	7
70	Sulfur and Nitrogen Codoped Carbon Tubes as Bifunctional Metal-Free Electrocatalysts for Oxygen Reduction and Hydrogen Evolution in Acidic Media. Chemistry - A European Journal, 2016, 22, 10261-10261.	1.7	40
71	Sulfur and Nitrogen Codoped Carbon Tubes as Bifunctional Metal-Free Electrocatalysts for Oxygen Reduction and Hydrogen Evolution in Acidic Media. Chemistry - A European Journal, 2016, 22, 10326-10329.	1.7	59
72	Creation of Ge ₂ N ₃ Cy Configures in Carbon Nanotubes: Origin of Enhanced Electrocatalytic Performance for Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 10383-10391.	4.0	23

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73	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.	1.7	13
74	Alcohol-Tolerant Platinum Electrocatalyst for Oxygen Reduction by Encapsulating Platinum Nanoparticles inside Nitrogen-Doped Carbon Nanocages. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16664-16669.	4.0	28
75	Phase-equilibrium-dominated vapor-liquid-solid mechanism: further evidence. <i>Science China Materials</i> , 2016, 59, 20-27.	3.5	3
76	Surface-diffusion enhanced Ga incorporation in ZnO nanowires by oxygen vacancies. <i>Applied Surface Science</i> , 2016, 361, 221-225.	3.1	4
77	Manganese oxide-induced strategy to high-performance iron/nitrogen/carbon electrocatalysts with highly exposed active sites. <i>Nanoscale</i> , 2016, 8, 8480-8485.	2.8	33
78	Mesostructured NiO/Ni composites for high-performance electrochemical energy storage. <i>Energy and Environmental Science</i> , 2016, 9, 2053-2060.	15.6	212
79	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.	1.3	3
80	Alloyed Pt-Ru Nanoparticles Immobilized on Mesostructured Nitrogen-Doped Carbon Nanocages for Efficient Methanol Electrooxidation. <i>Acta Chimica Sinica</i> , 2016, 74, 587.	0.5	3
81	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.	2.6	129
82	Alloyed Co-Mo Nitride as High-Performance Electrocatalyst for Oxygen Reduction in Acidic Medium. <i>ACS Catalysis</i> , 2015, 5, 1857-1862.	5.5	172
83	Hierarchical carbon nanocages confining high-loading sulfur for high-rate lithium-sulfur batteries. <i>Nano Energy</i> , 2015, 12, 657-665.	8.2	231
84	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.	4.2	17
85	Superionic conductor-mediated growth of ternary ZnCdS nanorods over a wide composition range. <i>Nano Research</i> , 2015, 8, 584-591.	5.8	26
86	Hydrophilic Hierarchical Nitrogen-Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. <i>Advanced Materials</i> , 2015, 27, 3541-3545.	11.1	680
87	Significant Contribution of Intrinsic Carbon Defects to Oxygen Reduction Activity. <i>ACS Catalysis</i> , 2015, 5, 6707-6712.	5.5	519
88	Hierarchical carbon nanocages as high-rate anodes for Li- and Na-ion batteries. <i>Nano Research</i> , 2015, 8, 3535-3543.	5.8	71
89	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.	1.1	5
90	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.	1.1	6

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91	Promotion Effects of Nitrogen Doping into Carbon Nanotubes on Supported Iron Fischer-Tropsch Catalysts for Lower Olefins. ACS Catalysis, 2014, 4, 613-621.	5.5	218
92	Carbon Nanocages Supported LiFePO ₄ Nanoparticles as High-Performance Cathode for Lithium Ion Batteries. Acta Chimica Sinica, 2014, 72, 653.	0.5	6
93	Synthesis and Electrocatalytic Oxygen Reduction Performance of the Sulfur-Doped Carbon Nanocages. Acta Chimica Sinica, 2014, 72, 1070.	0.5	5
94	Influence of Preparation Methods on Catalytic Performance of Fe/NCNTs Fischer-Tropsch Catalysts. Acta Chimica Sinica, 2014, 72, 1017.	0.5	5
95	Can Boron and Nitrogen Co-doping Improve Oxygen Reduction Reaction Activity of Carbon Nanotubes?. Journal of the American Chemical Society, 2013, 135, 1201-1204.	6.6	855
96	A mini review on carbon-based metal-free electrocatalysts for oxygen reduction reaction. Chinese Journal of Catalysis, 2013, 34, 1986-1991.	6.9	42
97	Structural and Compositional Regulation of Nitrogen-Doped Carbon Nanotubes with Nitrogen-Containing Aromatic Precursors. Journal of Physical Chemistry C, 2013, 117, 7811-7817.	1.5	18
98	DIFFUSION OF LITHIUM IN SILICON AFFECTED BY 60° MISFIT-DISLOCATION. Modern Physics Letters B, 2013, 27, 1350168.	1.0	3
99	Advanced carbon-based nanotubes/nanocages for energy conversion and storage: synthesis, performance and mechanism. , 2013, , .		1
100	Carbon Nanocages: Nitrogen-Doped Carbon Nanocages as Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reaction (Adv. Mater. 41/2012). Advanced Materials, 2012, 24, 5646-5646.	11.1	10
101	Nitrogen-Doped Carbon Nanocages as Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reaction. Advanced Materials, 2012, 24, 5593-5597.	11.1	693
102	Carbon Nanocages as Supercapacitor Electrode Materials. Advanced Materials, 2012, 24, 347-352.	11.1	508
103	Supercapacitor Nanostructures: Carbon Nanocages as Supercapacitor Electrode Materials (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock	11.1	6
104	High reaction activity of nitrogen-doped carbon nanotubes toward the electrooxidation of nitric oxide. Chemical Communications, 2011, 47, 7137.	2.2	35
105	Convenient immobilization of Pt-Sn bimetallic catalysts on nitrogen-doped carbon nanotubes for direct alcohol electrocatalytic oxidation. Nanotechnology, 2011, 22, 395401.	1.3	26
106	Growth and Characterization of Ternary AlGaIn Alloy Nanocones across the Entire Composition Range. ACS Nano, 2011, 5, 1291-1296.	7.3	60
107	Boron-Doped Carbon Nanotubes as Metal-Free Electrocatalysts for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2011, 50, 7132-7135.	7.2	1,121
108	Ge-H empirical potential and simulation of Si epitaxy on Ge(100) by chemical vapor deposition from SiH ₄ . Physical Review B, 2009, 79, .	1.1	6

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109	The Influence of the Epitaxial Growth Process Parameters on Layer Characteristics and Device Performance in Si-Passivated Ge pMOSFETs. Journal of the Electrochemical Society, 2009, 156, H979.	1.3	41
110	The Influence of the Epitaxial Growth Process Parameters on Layer Characteristics and Device Performance in Si-passivated Ge pMOSFETs. ECS Transactions, 2009, 19, 183-194.	0.3	13
111	Atomistic simulation of the 60° dislocation mobility in silicon crystal. Superlattices and Microstructures, 2006, 40, 113-118.	1.4	20