

# Jianping Long

## List of Publications by Year in descending order

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58  
papers

2,352  
citations

218677

26  
h-index

214800

47  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1927  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adjusting the d-band center of metallic sites in NiFe-based Bimetal-organic frameworks via tensile strain to achieve High-performance oxygen electrode catalysts for Lithium-oxygen batteries. Journal of Colloid and Interface Science, 2022, 607, 1215-1225.	9.4	20
2	Synergy of cobalt vacancies and iron doping in cobalt selenide to promote oxygen electrode reactions in lithium-oxygen batteries. Journal of Colloid and Interface Science, 2022, 612, 171-180.	9.4	11
3	A multifunctional protective layer with biomimetic ionic channel suppressing dendrite and side reactions on zinc metal anodes. Journal of Colloid and Interface Science, 2022, 613, 136-145.	9.4	8
4	Promoted redox chemistry of high sulfur content cathode via endowing fast Li-ion diffusion. Ionics, 2022, 28, 1473-1481.	2.4	0
5	Airflow Synergistic Needleless Electrospinning of Instant Noodle-like Curly Nanofibrous Membranes for High-efficiency Air Filtration. Small, 2022, 18, e2107250.	10.0	28
6	Interlayer material technology of manganese phosphate toward and beyond electrochemical pseudocapacitance over energy storage application. Journal of Materials Science and Technology, 2021, 71, 109-128.	10.7	31
7	Modulating electronic structure of honeycomb-like Ni <sub>2</sub> P/Ni <sub>12</sub> P <sub>5</sub> heterostructure with phosphorus vacancies for highly efficient lithium-oxygen batteries. Chemical Engineering Journal, 2021, 413, 127404.	12.7	39
8	Boosting pseudocapacitive energy storage performance via both phosphorus vacancy defect and charge injection technique over the CoP electrode. Journal of Alloys and Compounds, 2021, 864, 158106.	5.5	22
9	Modulating in-plane electron density of molybdenum diselenide via spontaneously atomic-scale palladium doping enables high performance lithium oxygen batteries. Journal of Alloys and Compounds, 2021, 855, 157484.	5.5	5
10	An artificial hybrid interphase for an ultrahigh-rate and practical lithium metal anode. Energy and Environmental Science, 2021, 14, 4115-4124.	30.8	376
11	Tuning the Unsaturated Coordination Center of Electrocatalysts toward High-Performance Lithium-oxygen Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 7499-7507.	6.7	6
12	Active site synergy of the mixed-phase cobalt diselenides with slight lattice distortion for highly reversible and stable lithium oxygen batteries. Journal of Materials Science and Technology, 2021, 92, 159-170.	10.7	1
13	Interface-engineered metallic 1T-MoS <sub>2</sub> nanosheet array induced via palladium doping enabling catalysis enhancement for lithium-oxygen battery. Chemical Engineering Journal, 2020, 382, 122854.	12.7	52
14	Tuning oxygen non-stoichiometric surface via defect engineering to promote the catalysis activity of Co <sub>3</sub> O <sub>4</sub> in Li-O <sub>2</sub> batteries. Chemical Engineering Journal, 2020, 381, 122678.	12.7	68
15	Configuration of gradient-porous ultrathin FeCo <sub>2</sub> S <sub>4</sub> nanosheets vertically aligned on Ni foam as a noncarbonaceous freestanding oxygen electrode for lithium-oxygen batteries. Nanoscale, 2020, 12, 1864-1874.	5.6	22
16	Optimizing Redox Reactions in Aprotic Lithium-Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2002180.	19.5	112
17	Anionic vacancy-dependent activity of the CoSe <sub>2</sub> with a tunable interfacial electronic structure on the N-doped carbon cloth for advanced Li-O <sub>2</sub> batteries. Journal of Materials Chemistry A, 2020, 8, 16636-16648.	10.3	31
18	Promoting the Electrocatalytic Activity of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene by Modulating CO <sub>2</sub> Adsorption through Oxygen Vacancies for High-performance Lithium-Carbon Dioxide Batteries. ChemElectroChem, 2020, 7, 4922-4930.	3.4	10

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19	Tuning the electronic band structure of Mott-Schottky heterojunctions modified with surface sulfur vacancy achieves an oxygen electrode with high catalytic activity for lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11337-11345.	10.3	38
20	Rationalizing the Effect of Oxygen Vacancy on Oxygen Electrocatalysis in $\text{Li-O}_2$ Battery. <i>Small</i> , 2020, 16, e2001812.	10.0	81
21	Excellent electrolyte-electrode interface stability enabled by inhibition of anion mobility in hybrid gel polymer electrolyte based $\text{Li-O}_2$ batteries. <i>Journal of Membrane Science</i> , 2020, 604, 118051.	8.2	19
22	Inigorating the Catalytic Activity of Cobalt Selenide via Structural Phase Transition Engineering for Lithium-Oxygen Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5018-5027.	6.7	16
23	Interfacial electronic structure design of MXene-based electrocatalyst via vacancy modulation for lithium-oxygen battery. <i>Carbon</i> , 2020, 166, 273-283.	10.3	11
24	Interface engineering induced selenide lattice distortion boosting catalytic activity of heterogeneous $\text{CoSe}_2/\text{NiSe}_2$ for lithium-oxygen battery. <i>Chemical Engineering Journal</i> , 2020, 393, 124592.	12.7	84
25	Heterostructured $\text{NiS}_2/\text{ZnIn}_2\text{S}_4$ Realizing Toroid-like $\text{Li}_2\text{O}_2$ Deposition in Lithium-Oxygen Batteries with Low-Donor-Number Solvents. <i>ACS Nano</i> , 2020, 14, 3490-3499.	14.6	113
26	A 3D free-standing Co doped $\text{Ni}_2\text{P}$ nanowire oxygen electrode for stable and long-life lithium-oxygen batteries. <i>Nanoscale</i> , 2020, 12, 6785-6794.	5.6	30
27	Phosphorus vacancies enriched $\text{Ni}_2\text{P}$ nanosheets as efficient electrocatalyst for high-performance $\text{Li-O}_2$ batteries. <i>Electrochimica Acta</i> , 2020, 337, 135795.	5.2	39
28	Multifunctional Selenium Vacancy Coupling with Interface Engineering Enables High-Stability $\text{Li-O}_2$ Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6667-6674.	6.7	22
29	Defect regulation of heterogeneous nickel-based oxides via interfacial engineering for long-life lithium-oxygen batteries. <i>Electrochimica Acta</i> , 2019, 321, 134716.	5.2	16
30	Heteroatom-Induced Electronic Structure Modulation of Vertically Oriented Oxygen Vacancy-Rich $\text{NiFe}$ Layered Double Oxide Nanoflakes To Boost Bifunctional Catalytic Activity in $\text{Li-O}_2$ Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29868-29878.	8.0	38
31	Morphology regulation of $\text{Li}_2\text{O}_2$ by flower-like $\text{ZnCo}_2\text{S}_4$ enabling high performance $\text{Li-O}_2$ battery. <i>Journal of Power Sources</i> , 2019, 441, 227168.	7.8	49
32	3D porous network gel polymer electrolyte with high transference number for dendrite-free $\text{Li-O}_2$ batteries. <i>Solid State Ionics</i> , 2019, 343, 115088.	2.7	8
33	Design strategies toward catalytic materials and cathode structures for emerging $\text{Li-CO}_2$ batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21605-21633.	10.3	75
34	Cobalt encapsulated within porous MOF-derived nitrogen-doped carbon as an efficient bifunctional electrocatalyst for aprotic lithium-oxygen battery. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151877.	5.5	20
35	Dendrite-Free Solid-State $\text{Li-O}_2$ Batteries Enabled by Organic-Inorganic Interaction Reinforced Gel Polymer Electrolyte. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17362-17371.	6.7	19
36	Three-dimensional $\text{CoNi}_2\text{S}_4$ nanorod arrays anchored on carbon textiles as an integrated cathode for high-rate and long-life Lithium-Oxygen battery. <i>Electrochimica Acta</i> , 2019, 301, 69-79.	5.2	34

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37	Two-dimensional spinel CuCo <sub>2</sub> S <sub>4</sub> nanosheets as high efficiency cathode catalyst for lithium-oxygen batteries. Journal of Alloys and Compounds, 2019, 798, 560-567.	5.5	21
38	Improved Cyclability of Lithium-Oxygen Batteries by Synergistic Catalytic Effects of Two-Dimensional MoS <sub>2</sub> Nanosheets Anchored on Hollow Carbon Spheres. ACS Sustainable Chemistry and Engineering, 2019, 7, 6929-6938.	6.7	31
39	Understanding the Reaction Chemistry during Charging in Aprotic Lithium-Oxygen Batteries: Existing Problems and Solutions. Advanced Materials, 2019, 31, e1804587.	21.0	254
40	In Situ Fabricating Oxygen Vacancy-Rich TiO <sub>2</sub> Nanoparticles via Utilizing Thermodynamically Metastable Ti Atoms on Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Nanosheet Surface To Boost Electrocatalytic Activity for High-Performance Li-O <sub>2</sub> Batteries. ACS Applied Materials & Interfaces, 2019, 11, 46696-46704.	8.0	77
41	Highly reversible Li-O <sub>2</sub> battery induced by modulating local electronic structure via synergistic interfacial interaction between ruthenium nanoparticles and hierarchically porous carbon. Nano Energy, 2019, 57, 166-175.	16.0	73
42	Free-Standing Three-Dimensional CuCo <sub>2</sub> S <sub>4</sub> Nanosheet Array with High Catalytic Activity as an Efficient Oxygen Electrode for Lithium-Oxygen Batteries. ACS Applied Materials & Interfaces, 2019, 11, 3834-3842.	8.0	75
43	Component-Interaction Reinforced Quasi-Solid Electrolyte with Multifunctionality for Flexible Li-O <sub>2</sub> Battery with Superior Safety under Extreme Conditions. Small, 2019, 15, e1804701.	10.0	38
44	NiCo <sub>2</sub> S <sub>4</sub> Nanorod Arrays Supported on Carbon Textile as a Free-Standing Electrode for Stable and Long-Life Lithium-Oxygen Batteries. ChemElectroChem, 2019, 6, 349-358.	3.4	15
45	3D Array of Bi <sub>2</sub> S <sub>3</sub> Nanorods Supported on Ni Foam as a Highly Efficient Integrated Oxygen Electrode for the Lithium-Oxygen Battery. Particle and Particle Systems Characterization, 2018, 35, 1700433.	2.3	30
46	Honeycomb-like Ni <sub>3</sub> S <sub>2</sub> supported on Ni foam as high performance free-standing cathode for lithium oxygen batteries. Electrochimica Acta, 2018, 290, 657-665.	5.2	41
47	Three-Dimensional Interconnected Network Architecture with Homogeneously Dispersed Carbon Nanotubes and Layered MoS <sub>2</sub> as a Highly Efficient Cathode Catalyst for Lithium-Oxygen Battery. ACS Applied Materials & Interfaces, 2018, 10, 34077-34086.	8.0	72
48	Three-Dimensional Flower-Like MoS <sub>2</sub> @Carbon Nanotube Composites with Interconnected Porous Networks and High Catalytic Activity as Cathode for Lithium-Oxygen Batteries. ChemElectroChem, 2018, 5, 2816-2824.	3.4	23
49	Luminescence enhancement of (Sr <sub>1-x</sub> M <sub>x</sub> ) <sub>2</sub> SiO <sub>4</sub> :Eu <sup>2+</sup> phosphors with M (Ca <sup>2+</sup> /Zn <sup>2+</sup> ) partial substitution for white light emitting diodes. Luminescence, 2017, 32, 119-124.	2.9	7
50	Sol-gel synthesis and luminescence property of Sr <sub>4</sub> Al <sub>2</sub> O <sub>7</sub> :Re <sup>3+</sup> , R <sup>3+</sup> (Re=Eu and Dy; R=Li, Na, Tl, ETQq, O, O rgBT /		
51	Synthesis and photoluminescence of Eu <sup>3+</sup> /Dy <sup>3+</sup> -doped CaGdAlO <sub>4</sub> phosphors for white light emitting diodes. Integrated Ferroelectrics, 2017, 179, 148-158.	0.7	3
52	Preparation and modification of polythiophene-organic montmorillonite composite. Polymer Composites, 2016, 37, 2503-2510.	4.6	0
53	Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> core/shell powder derived by novel sol-gel routes. Journal of Sol-Gel Science and Technology, 2015, 75, 475-480.	2.4	3
54	Theoretical Investigation of the Newly Noncentrosymmetric Superconductor SrAuSi <sub>3</sub> via First Principles. Journal of Superconductivity and Novel Magnetism, 2015, 28, 3235-3241.	1.8	8

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55	Effect of replacement of Ca by Zn on the structure and optical property of CaTiO <sub>3</sub> :Eu <sup>3+</sup> red phosphor prepared by sol-gel method. Luminescence, 2015, 30, 533-537.	2.9	15
56	Luminescence Enhancement of ZnS:Cu Nanocrystals by Zinc Sulfide Coating with Core/Shell Structure. Integrated Ferroelectrics, 2014, 154, 110-119.	0.7	3
57	First-principles calculations of structural phase transition and elastic properties of BeTe under high pressure. Philosophical Magazine Letters, 2014, 94, 103-111.	1.2	5
58	Electrochemical Kinetics of Layered Manganese Phosphate via Interfacial Polypyrrole Chemical Binding. ChemElectroChem, 0, , .	3.4	3