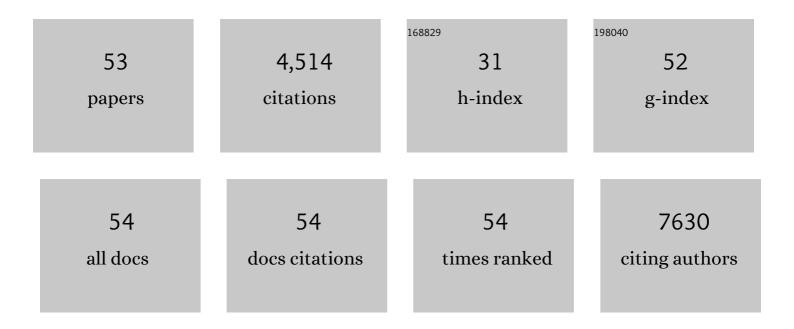
Zhiyang Lyu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Integrated Porous Cu Host Induced High‧table Bidirectional Li Plating/Stripping Behavior for Practical Li Metal Batteries. Small, 2022, 18, e2105999.	5.2	30
2	Effect of surface-patterned topographies of ceramic membranes on the filtration of activated sludge and their interaction with different particle sizes. Journal of Membrane Science, 2022, 645, 120125.	4.1	13
3	Support-based modulation strategies in single-atom catalysts for electrochemical CO ₂ reduction: graphene and conjugated macrocyclic complexes. Journal of Materials Chemistry A, 2022, 10, 5699-5716.	5.2	13
4	3D spray-coated gradient profile ceramic membranes enables improved filtration performance in aerobic submerged membrane bioreactor. Water Research, 2022, 220, 118661.	5.3	4
5	Direct ink writing of programmable functional siliconeâ€based composites for 4D printing applications. , 2022, 1, 507-516.		25
6	Efficient Hydrogen Evolution of Oxidized Niâ€N ₃ Defective Sites for Alkaline Freshwater and Seawater Electrolysis. Advanced Materials, 2021, 33, e2003846.	11.1	198
7	Ultrathin TiO2 microfiltration membranes supported on a holey intermediate layer to raise filtration performance. Journal of the European Ceramic Society, 2021, 41, 1622-1628.	2.8	11
8	Chloride Ion as Redox Mediator in Reducing Charge Overpotential of Aprotic Lithiumâ€Oxygen Batteries. Batteries and Supercaps, 2021, 4, 232-239.	2.4	15
9	Design and Manufacture of 3D-Printed Batteries. Joule, 2021, 5, 89-114.	11.7	137
10	Chemical-grafting of graphene oxide quantum dots (GOQDs) onto ceramic microfiltration membranes for enhanced water permeability and anti-organic fouling potential. Applied Surface Science, 2020, 502, 144128.	3.1	50
11	3D-printed electrodes for lithium metal batteries with high areal capacity and high-rate capability. Energy Storage Materials, 2020, 24, 336-342.	9.5	105
12	Effect of gradient profile in ceramic membranes on filtration characteristics: Implications for membrane development. Journal of Membrane Science, 2020, 595, 117576.	4.1	42
13	Water treatment residual: A critical review of its applications on pollutant removal from stormwater runoff and future perspectives. Journal of Environmental Management, 2020, 259, 109649.	3.8	69
14	Highly permeable Al 2 O 3 microfiltration membranes with holey interior structure achieved through sacrificial C particles. Journal of the American Ceramic Society, 2020, 103, 3361-3372.	1.9	11
15	Hydrogenated TiO2 membrane with photocatalytically enhanced anti-fouling for ultrafiltration of surface water. Applied Catalysis B: Environmental, 2020, 264, 118528.	10.8	37
16	Alumina double-layered ultrafiltration membranes with enhanced water flux. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 587, 124324.	2.3	9
17	Interfacial diffusion assisted chemical deposition (ID-CD) for confined surface modification of alumina microfiltration membranes toward high-flux and anti-fouling. Separation and Purification Technology, 2020, 235, 116177.	3.9	27
18	Surface engineered alumina microfiltration membranes based on rationally constructed core-shell particles. Journal of the European Ceramic Society, 2020, 40, 5951-5958.	2.8	20

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19	3D-printed surface-patterned ceramic membrane with enhanced performance in crossflow filtration. Journal of Membrane Science, 2020, 606, 118138.	4.1	53
20	Robust pure copper framework by extrusion 3D printing for advanced lithium metal anodes. Journal of Materials Chemistry A, 2020, 8, 9058-9067.	5.2	51
21	Heterogeneous ZIF-L membranes with improved hydrophilicity and anti-bacterial adhesion for potential application in water treatment. RSC Advances, 2019, 9, 1591-1601.	1.7	51
22	Ceramic-based membranes for water and wastewater treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123513.	2.3	179
23	Role of metal modified water treatment residual on removal of Escherichia coli from stormwater runoff. Science of the Total Environment, 2019, 678, 594-602.	3.9	14
24	Nanowires versus nanosheets – Effects of NiCo2O4 nanostructures on ceramic membrane permeability and fouling potential. Separation and Purification Technology, 2019, 215, 644-651.	3.9	13
25	Polysulfide-driven low charge overpotential for aprotic lithium–oxygen batteries. Journal of Materials Chemistry A, 2019, 7, 8777-8784.	5.2	3
26	Promoting defective-Li ₂ O ₂ formation <i>via</i> Na doping for Li–O ₂ batteries with low charge overpotentials. Journal of Materials Chemistry A, 2019, 7, 10389-10396.	5.2	17
27	Twinned Tungsten Carbonitride Nanocrystals Boost Hydrogen Evolution Activity and Stability. Small, 2019, 15, e1900248.	5.2	57
28	3Dâ€Printed MOFâ€Derived Hierarchically Porous Frameworks for Practical Highâ€Energy Density Li–O ₂ Batteries. Advanced Functional Materials, 2019, 29, 1806658.	7.8	197
29	Stretchable fiber-shaped lithium metal anode. Energy Storage Materials, 2019, 22, 179-184.	9.5	65
30	Efficient synergism of electrocatalysis and physical confinement leading to durable high-power lithium-sulfur batteries. Nano Energy, 2019, 57, 34-40.	8.2	104
31	Spinel Nickel Cobaltite Mesostructures Assembled from Ultrathin Nanosheets for High-Performance Electrochemical Energy Storage. ACS Applied Energy Materials, 2018, 1, 684-691.	2.5	14
32	Atomic engineering of high-density isolated Co atoms on graphene with proximal-atom controlled reaction selectivity. Nature Communications, 2018, 9, 3197.	5.8	146
33	Rutheniumâ€Functionalized Hierarchical Carbon Nanocages as Efficient Catalysts for Liâ€O ₂ Batteries. ChemNanoMat, 2017, 3, 415-419.	1.5	14
34	Synthesis of porous CoMoO ₄ nanorods as a bifunctional cathode catalyst for a Li–O ₂ battery and superior anode for a Li-ion battery. Nanoscale, 2017, 9, 3898-3904.	2.8	60
35	Effect of oxygen adsorbability on the control of Li2O2 growth in Li-O2 batteries: Implications for cathode catalyst design. Nano Energy, 2017, 36, 68-75.	8.2	93
36	Waterâ€Catalyzed Oxidation of Few‣ayer Black Phosphorous in a Dark Environment. Angewandte Chemie - International Edition, 2017, 56, 9131-9135.	7.2	141

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#	Article	IF	CITATIONS
37	Recent advances in understanding of the mechanism and control of Li ₂ O ₂ formation in aprotic Li–O ₂ batteries. Chemical Society Reviews, 2017, 46, 6046-6072.	18.7	314
38	Waterâ€Catalyzed Oxidation of Few‣ayer Black Phosphorous in a Dark Environment. Angewandte Chemie, 2017, 129, 9259-9263.	1.6	16
39	Co ₃ O ₄ functionalized porous carbon nanotube oxygen-cathodes to promote Li ₂ O ₂ surface growth for improved cycling stability of Li–O ₂ batteries. Journal of Materials Chemistry A, 2017, 5, 25501-25508.	5.2	31
40	Monodispersed Ru Nanoparticles Functionalized Graphene Nanosheets as Efficient Cathode Catalysts for O ₂ -Assisted Li–CO ₂ Battery. ACS Omega, 2017, 2, 9280-9286.	1.6	63
41	Facile synthesis of hierarchical porous Co ₃ O ₄ nanoboxes as efficient cathode catalysts for Li–O ₂ batteries. Journal of Materials Chemistry A, 2016, 4, 6350-6356.	5.2	75
42	Facile synthesis of flower-like hierarchical NiCo ₂ O ₄ microspheres as high-performance cathode materials for Li–O ₂ batteries. RSC Advances, 2016, 6, 98867-98873.	1.7	15
43	Porous CuO nanotubes/graphene with sandwich architecture as high-performance anodes for lithium-ion batteries. Nanoscale, 2016, 8, 19343-19351.	2.8	48
44	CoS ₂ nanoparticles–graphene hybrid as a cathode catalyst for aprotic Li–O ₂ batteries. RSC Advances, 2016, 6, 31739-31743.	1.7	25
45	Mesostructured NiO/Ni composites for high-performance electrochemical energy storage. Energy and Environmental Science, 2016, 9, 2053-2060.	15.6	212
46	Hierarchical carbon nanocages confining high-loading sulfur for high-rate lithium–sulfur batteries. Nano Energy, 2015, 12, 657-665.	8.2	231
47	Synthesis of hierarchical porous δ-MnO ₂ nanoboxes as an efficient catalyst for rechargeable Li–O ₂ batteries. Nanoscale, 2015, 7, 14881-14888.	2.8	82
48	Hydrophilic Hierarchical Nitrogenâ€Doped Carbon Nanocages for Ultrahigh Supercapacitive Performance. Advanced Materials, 2015, 27, 3541-3545.	11.1	680
49	Significant Contribution of Intrinsic Carbon Defects to Oxygen Reduction Activity. ACS Catalysis, 2015, 5, 6707-6712.	5.5	519
50	Palladium nanoparticle functionalized graphene nanosheets for Li–O ₂ batteries: enhanced performance by tailoring the morphology of the discharge product. RSC Advances, 2015, 5, 73451-73456.	1.7	35
51	Hierarchical carbon nanocages as high-rate anodes for Li- and Na-ion batteries. Nano Research, 2015, 8, 3535-3543.	5.8	71
52	Synthesis of three-dimensional AlN–Si ₃ N ₄ branched heterostructures and their photoluminescence properties. CrystEngComm, 2014, 16, 9555-9559.	1.3	3
53	Carbon Nanocages Supported LiFePO ₄ Nanoparticles as High-Performance Cathode for Lithium Ion Batteries. Acta Chimica Sinica, 2014, 72, 653.	0.5	6