

# Min Ling

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

5,165  
citations

81900

39  
h-index

88630

70  
g-index

83  
all docs

83  
docs citations

83  
times ranked

6024  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring Chemical, Mechanical, and Electrical Functionalities of Binders for Advanced Energy-Storage Devices. <i>Chemical Reviews</i> , 2018, 118, 8936-8982.	47.7	575
2	Exploring competitive features of stationary sodium ion batteries for electrochemical energy storage. <i>Energy and Environmental Science</i> , 2019, 12, 1512-1533.	30.8	402
3	Photocatalytic Synthesis of TiO <sub>2</sub> and Reduced Graphene Oxide Nanocomposite for Lithium Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3636-3642.	8.0	276
4	Dual-functional gum arabic binder for silicon anodes in lithium ion batteries. <i>Nano Energy</i> , 2015, 12, 178-185.	16.0	236
5	<i>Acacia Senegal</i> Inspired Bifunctional Binder for Longevity of Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500878.	19.5	223
6	Silicon Anode with High Initial Coulombic Efficiency by Modulated Trifunctional Binder for High-Areal-Capacity Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903110.	19.5	221
7	Where Do Photogenerated Holes Go in Anatase:Rutile TiO <sub>2</sub> ? A Transient Absorption Spectroscopy Study of Charge Transfer and Lifetime. <i>Journal of Physical Chemistry A</i> , 2016, 120, 715-723.	2.5	128
8	Conductive Polymer Binder for High-Tap-Density Nanosilicon Material for Lithium-Ion Battery Negative Electrode Application. <i>Nano Letters</i> , 2015, 15, 7927-7932.	9.1	121
9	Nucleophilic substitution between polysulfides and binders unexpectedly stabilizing lithium sulfur battery. <i>Nano Energy</i> , 2017, 38, 82-90.	16.0	119
10	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO <sub>3</sub> /TiO <sub>2</sub> Heterojunction Films: A Computational and Experimental Study. <i>Advanced Functional Materials</i> , 2017, 27, 1605413.	14.9	115
11	Platinum single-atom and cluster anchored on functionalized MWCNTs with ultrahigh mass efficiency for electrocatalytic hydrogen evolution. <i>Nano Energy</i> , 2019, 63, 103849.	16.0	106
12	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO <sub>2</sub> Photoanode: A Rate Law Analysis. <i>ACS Catalysis</i> , 2017, 7, 4896-4903.	11.2	105
13	Multifunctional SA-ProDOT Binder for Lithium Ion Batteries. <i>Nano Letters</i> , 2015, 15, 4440-4447.	9.1	97
14	Effect of oxygen deficiency on the excited state kinetics of WO <sub>3</sub> and implications for photocatalysis. <i>Chemical Science</i> , 2019, 10, 5667-5677.	7.4	97
15	High-performance aqueous symmetric sodium-ion battery using NASICON-structured Na <sub>2</sub> VTi(PO <sub>4</sub> ) <sub>3</sub> . <i>Nano Research</i> , 2018, 11, 490-498.	10.4	92
16	A robust network binder via localized linking by small molecules for high-areal-capacity silicon anodes in lithium-ion batteries. <i>Nano Energy</i> , 2021, 79, 105430.	16.0	85
17	Effective electrostatic confinement of polysulfides in lithium/sulfur batteries by a functional binder. <i>Nano Energy</i> , 2017, 40, 559-565.	16.0	83
18	Boosting oxygen evolution activity of NiFe-LDH using oxygen vacancies and morphological engineering. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23697-23702.	10.3	83

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19	Visualizing Lithium Dendrite Formation within Solid-State Electrolytes. ACS Energy Letters, 2021, 6, 451-458.	17.4	77
20	Highly Efficient Oxygen Reduction Catalysts by Rational Synthesis of Nanoconfined Maghemite in a Nitrogen-Doped Graphene Framework. ACS Catalysis, 2016, 6, 3558-3568.	11.2	74
21	An innovation: Dendrite free quinone paired with ZnMn <sub>2</sub> O <sub>4</sub> for zinc ion storage. Materials Today Energy, 2019, 13, 323-330.	4.7	73
22	Optimizing the Activity of Nanoneedle Structured WO <sub>3</sub> Photoanodes for Solar Water Splitting: Direct Synthesis via Chemical Vapor Deposition. Journal of Physical Chemistry C, 2017, 121, 5983-5993.	3.1	71
23	Cationic polymer binder inhibit shuttle effects through electrostatic confinement in lithium sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 6959-6966.	10.3	68
24	An Ion-Conductive Grafted Polymeric Binder with Practical Loading for Silicon Anode with High Interfacial Stability in Lithium-Ion Batteries. Advanced Energy Materials, 2022, 12, .	19.5	67
25	Anchoring Polyiodide to Conductive Polymers as Cathode for High-Performance Aqueous Zinc-Iodine Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 14280-14285.	6.7	64
26	MOF-Derived Porous Hollow Co <sub>3</sub> O <sub>4</sub> @ZnO Cages for High-Performance MEMS Trimethylamine Sensors. ACS Sensors, 2021, 6, 2613-2621.	7.8	63
27	3D porous carbon nanofibers with CeO <sub>2</sub> -decorated as cathode matrix for high performance lithium-sulfur batteries. Journal of Power Sources, 2020, 473, 228588.	7.8	56
28	Multifunctional porous carbon strategy assisting high-performance aqueous zinc-iodine battery. Carbon, 2022, 187, 145-152.	10.3	55
29	Directional synthesis of tin oxide@graphene nanocomposites via a one-step up-scalable wet-mechanochemical route for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 10211-10217.	10.3	54
30	Low cost and environmentally benign crack-blocking structures for long life and high power Si electrodes in lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 2036-2042.	10.3	53
31	A new battery process technology inspired by partially carbonized polymer binders. Nano Energy, 2020, 67, 104234.	16.0	52
32	Ultrasensitive ethanol sensor based on segregated ZnO-In <sub>2</sub> O <sub>3</sub> porous nanosheets. Applied Surface Science, 2021, 535, 147697.	6.1	52
33	Anchoring ultra-fine TiO <sub>2</sub> @SnO <sub>2</sub> solid solution particles onto graphene by one-pot ball-milling for long-life lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 9700-9706.	10.3	47
34	Accommodation of Silicon in an Interconnected Copper Network for Robust Li-Ion Storage. Advanced Functional Materials, 2020, 30, 1910249.	14.9	46
35	Electrochemical redox behavior of organic quinone compounds in aqueous metal ion electrolytes. Nano Energy, 2020, 73, 104766.	16.0	46
36	Electrostatic Polysulfides Confinement to Inhibit Redox Shuttle Process in the Lithium Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 31741-31745.	8.0	45

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37	Dual Cross-Linked Fluorinated Binder Network for High-Performance Silicon and Silicon Oxide Based Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 46800-46807.	8.0	44
38	SnO <sub>2</sub> decorated graphene nanocomposite anode materials prepared via an up-scalable wet-mechanochemical process for sodium ion batteries. RSC Advances, 2014, 4, 50148-50152.	3.6	43
39	An environmentally benign LIB fabrication process using a low cost, water soluble and efficient binder. Journal of Materials Chemistry A, 2013, 1, 11543.	10.3	42
40	9,10-Anthraquinone/K <sub>2</sub> CuFe(CN) <sub>6</sub> : A Highly Compatible Aqueous Aluminum-Ion Full-Battery Configuration. ACS Applied Materials & Interfaces, 2021, 13, 8353-8360.	8.0	40
41	In-situ constructing polyacrylamide interphase enables dendrite-free zinc anode in aqueous batteries. Electrochimica Acta, 2021, 378, 138106.	5.2	40
42	Embedding Fe <sub>3</sub> C and Fe <sub>3</sub> N on a Nitrogen-Doped Carbon Nanotube as a Catalytic and Anchoring Center for a High-Areal-Capacity Li-S Battery. ACS Applied Materials & Interfaces, 2021, 13, 20153-20161.	8.0	38
43	Conductive molybdenum carbide as the polysulfide reservoir for lithium-sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 17142-17147.	10.3	37
44	Polyisoprene Captured Sulfur Nanocomposite Materials for High-Areal-Capacity Lithium Sulfur Battery. ACS Applied Polymer Materials, 2019, 1, 1965-1970.	4.4	37
45	Growth mechanism of planar or nanorod structured tungsten oxide thin films deposited via aerosol assisted chemical vapour deposition (AACVD). Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 869-877.	0.8	36
46	Plasticized Polymer Composite Single-Ion Conductors for Lithium Batteries. ACS Applied Materials & Interfaces, 2015, 7, 19494-19499.	8.0	31
47	Adhesive Sulfide Solid Electrolyte Interface for Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2020, 12, 54876-54883.	8.0	30
48	Conductive Polymer Binder-Enabled SiO <sub>x</sub> /Co <sub>y</sub> C <sub>z</sub> Anode for High-Energy Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13373-13377.	8.0	28
49	Exploring the concordant solid-state electrolytes for all-solid-state lithium-sulfur batteries. Nano Energy, 2022, 96, 107093.	16.0	28
50	Platinum Atomic Clusters Embedded in Defects of Anatase/Graphene for Efficient Electro- and Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2020, 12, 40204-40212.	8.0	27
51	Revealing the Design Principles of Ni-Rich Cathodes for All-Solid-State Batteries. Advanced Energy Materials, 2022, 12, .	19.5	27
52	Correlation of Optical Properties, Electronic Structure, and Photocatalytic Activity in Nanostructured Tungsten Oxide. Advanced Materials Interfaces, 2017, 4, 1700064.	3.7	25
53	Charge Transport Phenomena in Heterojunction Photocatalysts: The WO <sub>3</sub> /TiO <sub>2</sub> System as an Archetypical Model. ACS Applied Materials & Interfaces, 2021, 13, 9781-9793.	8.0	24
54	An Aqueous Binder for High-Areal-Capacity Fe <sub>3</sub> O <sub>4</sub> -Based Anodes in Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 7201-7208.	5.1	23

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55	Fundamental air stability in solid-state electrolytes: principles and solutions. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7452-7466.	5.9	22
56	Ferromagnetic 1D-Fe <sub>3</sub> O <sub>4</sub> @C Microrods Boost Polysulfide Anchoring for Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 3921-3927.	5.1	22
57	Scalable Lithiophilic/Sodiophilic Porous Buffer Layer Fabrication Enables Uniform Nucleation and Growth for Lithium/Sodium Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	21
58	Electrospinning MoS <sub>2</sub> -Decorated Porous Carbon Nanofibers for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11893-11899.	5.1	20
59	A biopolymer network for lean binder in silicon nanoparticle anodes for lithium-ion batteries. <i>Sustainable Materials and Technologies</i> , 2021, 30, e00333.	3.3	18
60	Controllably Electrodepositing ZIF-8 Protective Layer for Highly Reversible Zinc Anode with Ultralong Lifespan. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9055-9059.	4.6	17
61	Selective Adsorption and Electrocatalysis of Polysulfides through Hexatomic Nickel Clusters Embedded in N-Doped Graphene toward High-Performance Li-S Batteries. <i>Research</i> , 2020, 2020, 5714349.	5.7	16
62	Chemical Reduction Synthesis and Electrochemistry of Si-Sn Nanocomposites as High-Capacity Anodes for Li-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5130-5134.	4.6	14
63	Constructing a Phosphating-Nitriding Interface for Practically Used Lithium Metal Anode. , 2020, 2, 1-8.		14
64	Millimeter Silicon-Derived Secondary Submicron Materials as High-Initial Coulombic Efficiency Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 10255-10260.	5.1	14
65	Construction of a Flexible Nb <sub>2</sub> O <sub>5</sub> /Carboxyl Multiwalled Carbon Nanotube Film as Anode for Lithium and Sodium Storages. <i>ACS Applied Energy Materials</i> , 2020, 3, 11841-11847.	5.1	14
66	Rational Design of Co-NiSe <sub>2</sub> @N-Doped Carbon Hollow Structure for Enhanced Li-S Battery Performance. <i>Energy Technology</i> , 2020, 8, 2000302.	3.8	14
67	Regulating Electronic Structure of Single-Atom Catalysts toward Efficient Bifunctional Oxygen Electrocatalysis. <i>Small Methods</i> , 2022, 6, e2101511.	8.6	14
68	Epoxy Cross-Linking Enhanced the Toughness of Polysaccharides as a Silicon Anode Binder for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 37704-37712.	8.0	13
69	Sulfur-Nitrogen-Rich Albumen Derived Self-Doping Graphene for Sodium-Ion Storage. <i>Chemistry - A European Journal</i> , 2019, 25, 14358-14363.	3.3	12
70	Epoxy and amide crosslinked polarity enhanced polysaccharides binder for silicon anode in lithium-ion batteries. <i>Electrochimica Acta</i> , 2021, 368, 137580.	5.2	11
71	Carbon dot-modified silicon nanoparticles for lithium-ion batteries. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1603-1610.	4.9	11
72	Chitosan oligosaccharide derived polar host for lithium deposition in lithium metal batteries. <i>Sustainable Materials and Technologies</i> , 2020, 24, e00158.	3.3	10

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73	Boosting selective H <sub>2</sub> sensing of ZnO derived from ZIF-8 by rGO functionalization. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 599-606.	6.0	10
74	Raspberry-like hollow SnO <sub>2</sub> -based nanostructures for sensing VOCs and ammonia. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14165-14173.	2.2	8
75	Facile Synthesis and Electrochemistry of Si-Sn-C Nanocomposites for High-Energy Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1378-A1383.	2.9	7
76	Ag-Ag <sub>2</sub> S/reduced graphene oxide hybrids used as long-wave UV radiation emitting nanocomposites. <i>Optical Materials</i> , 2017, 72, 529-532.	3.6	6
77	Bio-derived N-doped porous carbon as sulfur hosts for high performance lithium sulfur batteries. <i>Journal of Central South University</i> , 2019, 26, 1426-1434.	3.0	6
78	Pre-activation and Defects Introduced via Citric Acid to Mitigate Capacity and Voltage Fading in Li-rich Cathode. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1285-1291.	1.2	6
79	Dual-Carbon Confined SnP <sub>2</sub> O <sub>7</sub> with Enhanced Pseudocapacitances for Improved Li/Na-ion Batteries. <i>ChemElectroChem</i> , 2021, 8, 2708-2714.	3.4	6
80	Gas-phase synthesis of hybrid nanostructured materials. <i>Nanoscale</i> , 2018, 10, 22981-22989.	5.6	5
81	Atomic Platinum Anchored on Fe-N-C Material for High Performance Oxygen Reduction Reaction. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 165-168.	2.0	4
82	Peach gum as an efficient binder for high-areal-capacity lithium-sulfur batteries. <i>Sustainable Materials and Technologies</i> , 2021, 30, e00334.	3.3	3