

# Hongsen Li

## List of Publications by Year in Descending Order

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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.

75  
papers

5,768  
citations

36  
h-index

75  
g-index

79  
ext. papers

6,574  
ext. citations

11.1  
avg, IF

6.05  
L-index

#	Paper	IF	Citations
75	Revealing the multiple cathodic and anodic involved charge storage mechanism in an FeSe <sub>2</sub> cathode for aluminium-ion batteries by in situ magnetometry. <i>Energy and Environmental Science</i> , <b>2022</b> , 15, 311-319	35.4	13
74	Transition metal catalysis in lithium-ion batteries studied by operando magnetometry. <i>Chinese Journal of Catalysis</i> , <b>2022</b> , 43, 158-166	11.3	2
73	Layered Fe <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> assemblies with pseudocapacitive properties as advanced materials for high-performance sodium-ion capacitors. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131481	14.7	6
72	Electrical control of ON/OFF magnetism and exchange bias via reversible ionic motion. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 082405	3.4	3
71	Evidence for dual anions co-insertion in a transition metal chalcogenide cathode material NiSe <sub>2</sub> for high-performance rechargeable aluminum-ion batteries. <i>Energy Storage Materials</i> , <b>2022</b> , 47, 336-344	19.4	6
70	Architecting Hierarchical WO <sub>3</sub> Agglomerates Assembled With Straight and Parallel Aligned Nanoribbons Enabling High Capacity and Robust Stability of Lithium Storage.. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 834418	5	0
69	Lithium-Ion Batteries: Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithium-Ion Batteries (Adv. Mater. 12/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170093	24	3
68	Dendrite-structured FeF <sub>2</sub> consisting of closely linked nanoparticles as cathode for high-performance lithium-ion capacitors. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 55, 517-523	12	15
67	Co <sub>3</sub> S <sub>4</sub> Nanosheets on Carbon Cloth as Free-Standing Anode with Improved Pseudocapacitive Storage for High-Performance Li-Ion Batteries. <i>Nano</i> , <b>2021</b> , 16, 2150007	1.1	
66	Extra storage capacity in transition metal oxide lithium-ion batteries revealed by in situ magnetometry. <i>Nature Materials</i> , <b>2021</b> , 20, 76-83	27	197
65	Construction of the POMOF@Polypyrrole Composite with Enhanced Ion Diffusion and Capacitive Contribution for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 6265-6275	9.5	21
64	Operando Magnetometry Probing the Charge Storage Mechanism of CoO Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006629	24	39
63	Reacquainting the Electrochemical Conversion Mechanism of FeS Sodium-Ion Batteries by Operando Magnetometry. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12800-12808	16.4	28
62	Li-ionic control of magnetism through spin capacitance and conversion. <i>Matter</i> , <b>2021</b> ,	12.7	9
61	Fast potassium storage in porous CoV <sub>2</sub> O <sub>6</sub> nanosphere@graphene oxide towards high-performance potassium-ion capacitors. <i>Energy Storage Materials</i> , <b>2021</b> , 40, 250-258	19.4	19
60	Fe, N co-doped amorphous carbon as efficient electrode materials for fast and stable Na/K-storage. <i>Electrochimica Acta</i> , <b>2021</b> , 396, 139265	6.7	4
59	3D Ordered Porous Hybrid of ZnSe/ N -doped Carbon with Anomalously High Na + Mobility and Ultrathin Solid Electrolyte Interphase for Sodium-Ion Batteries (Adv. Funct. Mater. 50/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170372	15.6	

58	Designing Uniformly Layered FeTiO Assemblies Consisting of Fine Nanoparticles Enabling High-Performance Quasi-Solid-State Sodium-Ion Capacitors. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 371	5	3
57	Designing two-dimensional WS <sub>2</sub> layered cathode for high-performance aluminum-ion batteries: From micro-assemblies to insertion mechanism. <i>Nano Today</i> , <b>2020</b> , 32, 100870	17.9	50
56	Nonaqueous Aluminum Ion Batteries: Recent Progress and Prospects <b>2020</b> , 2, 887-904		38
55	SnO <sub>2</sub> nanoflower arrays on an amorphous buffer layer as binder-free electrodes for flexible lithium-ion batteries. <i>Applied Surface Science</i> , <b>2020</b> , 527, 146910	6.7	23
54	Interfacial Engineering of Self-Supported SnO <sub>2</sub> Nanorod Arrays as Anode for Flexible Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 120515	3.9	8
53	Flexible sodium-ion based energy storage devices: Recent progress and challenges. <i>Energy Storage Materials</i> , <b>2020</b> , 26, 83-104	19.4	65
52	Self-Supported Amorphous SnO <sub>2</sub> /TiO <sub>2</sub> Nanocomposite Films with Improved Electrochemical Performance for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A3072-A3078	3.9	34
51	Two-dimensionally porous cobalt sulfide nanosheets as a high-performance cathode for aluminum-ion batteries. <i>Journal of Power Sources</i> , <b>2019</b> , 440, 227147	8.9	24
50	Three-Dimensional Hierarchical Flowerlike FeP Wrapped with N-Doped Carbon Possessing Improved Li Diffusion Kinetics and Cyclability for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39961-39969	9.5	26
49	Tailoring multi-layer architected FeS <sub>2</sub> @C hybrids for superior sodium-, potassium- and aluminum-ion storage. <i>Energy Storage Materials</i> , <b>2019</b> , 22, 228-234	19.4	98
48	Rocking-chair Na-ion hybrid capacitor: a high energy/power system based on Na <sub>3</sub> V <sub>2</sub> O <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F@PEDOT core-shell nanorods. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1030-1037	13	38
47	Nanosized MoSe@Carbon Matrix: A Stable Host Material for the Highly Reversible Storage of Potassium and Aluminum Ions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44333-44341	9.5	35
46	Improved Electrochemical Performance Based on Nanostructured SnS@CoS-rGO Composite Anode for Sodium-Ion Batteries. <i>Nano-Micro Letters</i> , <b>2018</b> , 10, 46	19.5	73
45	Facile synthesis of layered Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (MXene) composite for high-performance lithium ion battery. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 810, 27-33	4.1	32
44	A Nanocrystalline FeO Film Anode Prepared by Pulsed Laser Deposition for Lithium-Ion Batteries. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 60	5	17
43	Nitrogenated Urchin-like Nb <sub>2</sub> O <sub>5</sub> Microspheres with Extraordinary Pseudocapacitive Properties for Lithium-Ion Capacitors. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1516-1524	4.3	30
42	3D Heterogeneous Co <sub>3</sub> O <sub>4</sub> @Co <sub>3</sub> S <sub>4</sub> Nanoarrays Grown on Ni Foam as a Binder-Free Electrode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2018</b> , 5, 309-315	4.3	28
41	Constructing Three-Dimensional Porous Carbon Framework Embedded with FeSe Nanoparticles as an Anode Material for Rechargeable Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38862-38871	9.5	44

40	An All-Stretchable-Component Sodium-Ion Full Battery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700898	24	114
39	Antimony Selenide Nanorods Decorated on Reduced Graphene Oxide with Excellent Electrochemical Properties for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A2922-A2929 <sup>22</sup>	3.9	22
38	Improved flexible Li-ion hybrid capacitors: Techniques for superior stability. <i>Nano Research</i> , <b>2017</b> , 10, 4448-4456	10	20
37	Design of nanoconfined MWNTs@NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> coaxial cables with superior rate capability and long-cycle life for Na-ion batteries. <i>Applied Materials Today</i> , <b>2016</b> , 4, 54-61	6.6	20
36	Chemically Integrated Inorganic-Graphene Two-Dimensional Hybrid Materials for Flexible Energy Storage Devices. <i>Small</i> , <b>2016</b> , 12, 6183-6199	11	111
35	Flexible Sodium-Ion Pseudocapacitors Based on 3D Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> Nanosheet Arrays/Carbon Textiles Anodes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3703-3710	15.6	224
34	An advanced high-energy sodium ion full battery based on nanostructured Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> /VOPO <sub>4</sub> layered materials. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3399-3405	35.4	196
33	Nb <sub>2</sub> O <sub>5</sub> nanoparticles encapsulated in ordered mesoporous carbon matrix as advanced anode materials for Li ion capacitors. <i>RSC Advances</i> , <b>2016</b> , 6, 71338-71344	3.7	30
32	Self-Assembled Nb <sub>2</sub> O <sub>5</sub> Nanosheets for High Energy/High Power Sodium Ion Capacitors. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5753-5760	9.6	201
31	Achieving High-Energy-High-Power Density in a Flexible Quasi-Solid-State Sodium Ion Capacitor. <i>Nano Letters</i> , <b>2016</b> , 16, 5938-43	11.5	148
30	Three-dimensionally ordered porous TiNb <sub>2</sub> O <sub>7</sub> nanotubes: a superior anode material for next generation hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16785-16790	13	83
29	Ultralong SrLi <sub>2</sub> Ti <sub>6</sub> O <sub>14</sub> nanowires composed of single-crystalline nanoparticles: Promising candidates for high-power lithium ions batteries. <i>Nano Energy</i> , <b>2015</b> , 13, 18-27	17.1	73
28	Stabilized titanium nitride nanowire supported silicon core-shell nanorods as high capacity lithium-ion anodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 12476-12481	13	16
27	Trivalent Ti self-doped Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> : A high performance anode material for lithium-ion capacitors. <i>Journal of Electroanalytical Chemistry</i> , <b>2015</b> , 757, 1-7	4.1	52
26	Porous NiCo <sub>2</sub> O <sub>4</sub> nanotubes as a noble-metal-free effective bifunctional catalyst for rechargeable LiO <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24309-24314	13	50
25	Pseudocapacitive behaviours of Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> @CNT coaxial nanocables for high-performance sodium-ion capacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 21277-21283	13	150
24	Biomass-derived porous carbon materials with sulfur and nitrogen dual-doping for energy storage. <i>Green Chemistry</i> , <b>2015</b> , 17, 1668-1674	10	481
23	TiNb <sub>2</sub> O <sub>7</sub> nanoparticles assembled into hierarchical microspheres as high-rate capability and long-cycle-life anode materials for lithium ion batteries. <i>Nanoscale</i> , <b>2015</b> , 7, 619-24	7.7	112

22	NiCo <sub>2</sub> S <sub>4</sub> Nanosheets Grown on Nitrogen-Doped Carbon Foams as an Advanced Electrode for Supercapacitors. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1400977	21.8	633
21	High rate capability and superior cycle stability of a flower-like Sb <sub>2</sub> S <sub>3</sub> anode for high-capacity sodium ion batteries. <i>Nanoscale</i> , <b>2015</b> , 7, 3309-15	7.7	137
20	PEDOT coated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanorods: Soft chemistry approach synthesis and their lithium storage properties. <i>Electrochimica Acta</i> , <b>2014</b> , 129, 283-289	6.7	54
19	Metal Oxides: Mesoporous NiCo <sub>2</sub> O <sub>4</sub> Nanowire Arrays Grown on Carbon Textiles as Binder-Free Flexible Electrodes for Energy Storage (Adv. Funct. Mater. 18/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2736-2736	15.6	8
18	Mesoporous NiCo <sub>2</sub> O <sub>4</sub> Nanowire Arrays Grown on Carbon Textiles as Binder-Free Flexible Electrodes for Energy Storage. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2630-2637	15.6	663
17	Mesoporous NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /CMK-3 nanohybrid as anode for long-life Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20659-20666	13	76
16	Design of a Nitrogen-Doped, Carbon-Coated Li Ti O Nanocomposite with a Core-Shell Structure and Its Application for High-Rate Lithium-Ion Batteries. <i>ChemPlusChem</i> , <b>2014</b> , 79, 128-133	2.8	29
15	A facile one-pot synthesis of TiO <sub>2</sub> /nitrogen-doped reduced graphene oxide nanocomposite as anode materials for high-rate lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2014</b> , 133, 209-216	6.7	53
14	Mesoporous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /carbon nanofibers for high-rate lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 587, 171-176	5.7	34
13	Enhanced Lithium-Storage Performance from Three-Dimensional MoS <sub>2</sub> Nanosheets/Carbon Nanotube Paper. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1118-1125	4.3	40
12	Synthesis of nanostructured materials by using metal-cyanide coordination polymers and their lithium storage properties. <i>Nanoscale</i> , <b>2013</b> , 5, 11087-93	7.7	23
11	Carbon coated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanorods as superior anode material for high rate lithium ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 572, 37-42	5.7	71
10	Facile synthesis of N-doped carbon-coated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> microspheres using polydopamine as a carbon source for high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7270	13	158
9	Nitrogen-doped carbon coated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanocomposite: Superior anode materials for rechargeable lithium ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 221, 122-127	8.9	88
8	HIERARCHICAL Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> MICROSPHERES AS A HIGH POWER ANODE MATERIAL FOR LITHIUM ION BATTERIES. <i>Journal of Molecular and Engineering Materials</i> , <b>2013</b> , 01, 1340013	1.3	
7	Facile hydrothermal synthesis of single crystalline TiOF <sub>2</sub> nanocubes and their phase transitions to TiO <sub>2</sub> hollow nanocages as anode materials for lithium-ion battery. <i>Electrochimica Acta</i> , <b>2012</b> , 62, 408-415	6.7	52
6	General strategy for designing core-shell nanostructured materials for high-power lithium ion batteries. <i>Nano Letters</i> , <b>2012</b> , 12, 5673-8	11.5	183
5	Electrospun Hierarchical Li <sub>4</sub> Ti <sub>4.95</sub> Nb <sub>0.05</sub> O <sub>12</sub> /Carbon Composite Nanofibers for High Rate Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, A426-A430	3.9	33

4	Preparation and Electrochemical Lithium Storage of Titanium Dioxide@Multi-walled Carbon Nanotubes(TiO <sub>2</sub> @MWNTs) Nanocomposites. <i>Acta Chimica Sinica</i> , <b>2012</b> , 70, 15	3.3	2
3	Novel template-free solvothermal synthesis of mesoporous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -C microspheres for high power lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14414		75
2	Design and Tailoring of a Three-Dimensional TiO <sub>2</sub> /Graphene/Carbon Nanotube Nanocomposite for Fast Lithium Storage. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 3096-3101	6.4	193
1	3D Ordered Porous Hybrid of ZnSe/N-doped Carbon with Anomalously High Na <sup>+</sup> Mobility and Ultrathin Solid Electrolyte Interphase for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2106194	15.6	21