

# Xuejin Li

## List of Publications by Year in descending order

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73  
papers

3,975  
citations

136950

32  
h-index

123424

61  
g-index

74  
all docs

74  
docs citations

74  
times ranked

5227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Superior CO <sub>2</sub> uptake of N-doped activated carbon through hydrogen-bonding interaction. <i>Energy and Environmental Science</i> , 2012, 5, 7323.	30.8	434
2	Layered double hydroxides toward high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15460-15485.	10.3	326
3	Stable CoSe <sub>2</sub> /carbon nanodice@reduced graphene oxide composites for high-performance rechargeable aluminum-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2341-2347.	30.8	240
4	Superior capacitive performance of active carbons derived from <i>Enteromorpha prolifera</i> . <i>Electrochimica Acta</i> , 2014, 133, 459-466.	5.2	162
5	Porous carbons prepared by direct carbonization of MOFs for supercapacitors. <i>Applied Surface Science</i> , 2014, 308, 306-310.	6.1	151
6	A New Approach to Tuning Carbon Ultramicropore Size at Sub-Ångstrom Level for Maximizing Specific Capacitance and CO <sub>2</sub> Uptake. <i>Advanced Functional Materials</i> , 2016, 26, 7955-7964.	14.9	128
7	A hierarchical structured steel mesh decorated with metal organic framework/graphene oxide for high-efficient oil/water separation. <i>Journal of Hazardous Materials</i> , 2019, 373, 725-732.	12.4	120
8	Stabilized Co <sup>3+</sup> /Co <sup>4+</sup> Redox Pair in In Situ Produced CoSe <sub>2</sub> Derived Cobalt Oxides for Alkaline Zn Batteries with 1000 Cycle Lifespan and 1.9 V Voltage Plateau. <i>Advanced Energy Materials</i> , 2020, 10, 2000892.	19.5	114
9	Charge-modulated CO <sub>2</sub> capture of C <sub>3</sub> N nanosheet: Insights from DFT calculations. <i>Chemical Engineering Journal</i> , 2018, 338, 92-98.	12.7	111
10	Electrostatic Self-Assembly of Sandwich-Like CoAl-LDH/Polypyrrole/Graphene Nanocomposites with Enhanced Capacitive Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31699-31709.	8.0	103
11	High-efficiency separation performance of oil-water emulsions of polyacrylonitrile nanofibrous membrane decorated with metal-organic frameworks. <i>Applied Surface Science</i> , 2019, 476, 61-69.	6.1	103
12	Hyper-Branched Cu@Cu <sub>2</sub> O Coaxial Nanowires Mesh Electrode for Ultra-Sensitive Glucose Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 16802-16812.	8.0	99
13	Carbon dioxide adsorption performance of N-doped zeolite Y templated carbons. <i>RSC Advances</i> , 2012, 2, 161-167.	3.6	98
14	Carbon-encapsulated CoSe nanoparticles derived from metal-organic frameworks as advanced cathode material for Al-ion battery. <i>Journal of Power Sources</i> , 2018, 401, 6-12.	7.8	94
15	Recent advances in flexible aqueous zinc-based rechargeable batteries. <i>Nanoscale</i> , 2019, 11, 17992-18008.	5.6	83
16	Superior Selective CO <sub>2</sub> Adsorption of C <sub>3</sub> N Pores: GCMC and DFT Simulations. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 31161-31169.	8.0	79
17	Epitaxial growth of hyperbranched Cu/Cu <sub>2</sub> O/CuO core-shell nanowire heterostructures for lithium-ion batteries. <i>Nano Research</i> , 2015, 8, 2763-2776.	10.4	68
18	Insight of synergistic effect of different active metal ions in layered double hydroxides on their electrochemical behaviors. <i>Electrochimica Acta</i> , 2017, 253, 302-310.	5.2	67

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19	Sandwich-like graphene/polypyrrole/layered double hydroxide nanowires for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2016, 331, 67-75.	7.8	62
20	Co-MOF-74 derived Co <sub>3</sub> O <sub>4</sub> /graphene heterojunction nanoscrolls for ppb-level acetone detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 127011.	7.8	62
21	Excellent Capacitive Performance of a Three-dimensional Hierarchical Porous Graphene/Carbon Composite with a Superhigh Surface Area. <i>Chemistry - A European Journal</i> , 2014, 20, 13314-13320.	3.3	56
22	Water-soluble Salt Template-assisted Anchor of Hollow FeS <sub>2</sub> Nanoparticle Inside 3D Carbon Skeleton to Achieve Fast Potassium Ion Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2101343.	19.5	56
23	Boosting the Cycling Stability of Aqueous Flexible Zn Batteries via F Doping in Nickel-Cobalt Carbonate Hydroxide Cathode. <i>Small</i> , 2020, 16, e2001935.	10.0	54
24	Suppressing passivation layer of Al anode in aqueous electrolytes by complexation of H <sub>2</sub> PO <sub>4</sub> <sup>3-</sup> to Al <sup>3+</sup> and an electrochromic Al ion battery. <i>Energy Storage Materials</i> , 2021, 39, 412-418.	18.0	52
25	A durable mesh decorated with polydopamine/graphene oxide for highly efficient oil/water mixture separation. <i>Applied Surface Science</i> , 2019, 479, 351-359.	6.1	51
26	Hierarchical cobalt oxide@Nickel-vanadium layer double hydroxide core/shell nanowire arrays with enhanced areal specific capacity for nickel-zinc batteries. <i>Journal of Power Sources</i> , 2019, 436, 226867.	7.8	48
27	A rechargeable 6-electron Al-Se battery with high energy density. <i>Energy Storage Materials</i> , 2021, 41, 667-676.	18.0	44
28	Outstanding capacitive performance of ordered mesoporous carbon modified by anthraquinone. <i>Electrochimica Acta</i> , 2018, 259, 110-121.	5.2	37
29	High-Energy Aqueous Magnesium Hybrid Full Batteries Enabled by Carrier-Hosting Potential Compensation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5443-5452.	13.8	37
30	Polycyclic Aromatic Hydrocarbons as a New Class of Promising Cathode Materials for Aluminum Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114681.	13.8	37
31	Integration designs toward new-generation wearable energy supply-sensor systems for real-time health monitoring: A minireview. <i>Informa Materials</i> , 2020, 2, 1109-1130.	17.3	35
32	High performance aluminum ion battery using polyaniline/ordered mesoporous carbon composite. <i>Journal of Power Sources</i> , 2020, 477, 228702.	7.8	33
33	Mechanistic Insights into the Hydrogen Oxidation Reaction on PtNi Alloys in Alkaline Media: A First-Principles Investigation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 40248-40260.	8.0	33
34	Outstanding capacitive performance of reticular porous carbon/graphene sheets with superhigh surface area. <i>Electrochimica Acta</i> , 2016, 190, 923-931.	5.2	32
35	Functionalization of Petroleum Coke-Derived Carbon for Synergistically Enhanced Capacitive Performance. <i>Nanoscale Research Letters</i> , 2016, 11, 163.	5.7	31
36	Beta-MCM-41 micro-mesoporous catalysts in the hydroisomerization of n-heptane: Definition of an indexed isomerization factor as a performance descriptor. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 17-28.	4.4	31

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37	$\beta$ -Hydrogen of Polythiophene Induced Aluminum Ion Storage for High-Performance Al-Polythiophene Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 46065-46072.	8.0	31
38	High-performance aluminum-polyaniline battery based on the interaction between aluminum ion and -NH groups. <i>Science China Materials</i> , 2021, 64, 318-328.	6.3	31
39	Bifunctional petaloid nickel manganese layered double hydroxides decorated on a freestanding carbon foam for flexible asymmetric supercapacitor and oxygen evolution. <i>Electrochimica Acta</i> , 2017, 252, 275-285.	5.2	30
40	Surfactant assisted electrospinning of WS <sub>2</sub> nanofibers and its promising performance as anode material of sodium-ion batteries. <i>Electrochimica Acta</i> , 2019, 302, 259-269.	5.2	30
41	Superior catalytic performance of micro-mesoporous Beta-SBA-15 composite with a high indexed isomerization factor in hydroisomerization of n-heptane. <i>Fuel</i> , 2019, 252, 653-665.	6.4	28
42	Initiating a Room-Temperature Rechargeable Aqueous Fluoride-Ion Battery with Long Lifespan through a Rational Buffering Phase Design. <i>Advanced Energy Materials</i> , 2021, 11, 2003714.	19.5	28
43	Watermelon Peel-Derived Heteroatom-Doped Hierarchical Porous Carbon as a High-Performance Electrode Material for Supercapacitors. <i>ChemElectroChem</i> , 2021, 8, 1196-1203.	3.4	28
44	Me-N-C (Me = Fe, Cu, and Co) nanosheet as a promising charge-controlled CO <sub>2</sub> capture material. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12404-12410.	10.3	27
45	N-containing activated carbons for CO <sub>2</sub> capture. <i>International Journal of Smart and Nano Materials</i> , 2013, 4, 55-61.	4.2	24
46	Ultrastable bimetallic catalyst with tuned surface electronic properties for highly selective oxidation of cyclohexane. <i>Applied Surface Science</i> , 2018, 457, 580-590.	6.1	24
47	Small graphite nanoflakes as an advanced cathode material for aluminum ion batteries. <i>Chemical Communications</i> , 2020, 56, 1593-1596.	4.1	24
48	Sulfur-Nitrogen Codoped Graphite Slit-Pore for Enhancing Selective Carbon Dioxide Adsorption: Insights from Molecular Simulations. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8815-8823.	6.7	23
49	Free-standing cotton-derived carbon microfiber@nickel-aluminum layered double hydroxides composite and its excellent capacitive performance. <i>Journal of Alloys and Compounds</i> , 2019, 787, 27-35.	5.5	21
50	Doping-induced enhancement of CO <sub>2</sub> adsorption on negatively charged C <sub>3</sub> N nanosheet: Insights from DFT calculations. <i>Chemical Engineering Journal</i> , 2020, 387, 123403.	12.7	21
51	S-graphite slit pore: A superior selective adsorbent for light hydrocarbons. <i>Applied Surface Science</i> , 2018, 444, 772-779.	6.1	18
52	Electrochemical heavy metal removal from water using PVC waste-derived N, S co-doped carbon materials. <i>RSC Advances</i> , 2020, 10, 4064-4070.	3.6	17
53	Enhancing hydrogen oxidation electrocatalysis of nickel-based catalyst by simultaneous chemical anchoring and electronic structure regulation. <i>Chemical Engineering Journal</i> , 2021, 425, 130654.	12.7	15
54	Binary FeCo-N-doped carbon/carbon nanotube composites for efficient oxygen reduction and high-performance aluminum-air battery. <i>Journal of Power Sources</i> , 2020, 456, 227933.	7.8	14

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55	An efficient modification of ultra-stable Y zeolites using citric acid and ammonium fluosilicate. Applied Petrochemical Research, 2014, 4, 373-378.	1.3	13
56	High-Energy Aqueous Magnesium Hybrid Full Batteries Enabled by Carrier-Hosting Potential Compensation. Angewandte Chemie, 2021, 133, 5503-5512.	2.0	13
57	Natural gas storage on activated carbon modified by metal oxides. Journal of Porous Materials, 2009, 16, 27-32.	2.6	11
58	Graphene supported single metal atom catalysts for the efficient hydrogen oxidation reaction in alkaline media. Catalysis Science and Technology, 2022, 12, 530-541.	4.1	11
59	Relieving hydrogen evolution and anodic corrosion of aqueous aluminum batteries with hybrid electrolytes. Journal of Materials Chemistry A, 2022, 10, 4739-4748.	10.3	11
60	Realizing an aqueous sodium-ion battery with a super-high discharge voltage based on a novel FeSe <sub>2</sub> @rGO anode. Inorganic Chemistry Frontiers, 2022, 9, 1622-1629.	6.0	11
61	Preparation of polyaniline-coated mesoporous carbon and its enhanced electrochemical properties. Polymers for Advanced Technologies, 2009, 20, 1179-1182.	3.2	10
62	Combined modification of ultra-stable Y zeolites via citric acid and phosphoric acid. Applied Petrochemical Research, 2014, 4, 343-349.	1.3	10
63	Multivalent cationic and anionic mixed redox of an Sb <sub>2</sub> S <sub>3</sub> cathode toward high-capacity aluminum ion batteries. Journal of Materials Chemistry A, 2022, 10, 10829-10836.	10.3	10
64	Predicting Catalytic Performance of Micro-Mesoporous Pt/Beta-KIT-6 Catalyst in <i>n</i> -Heptane Hydroisomerization Using Indexed Isomerization Factor and Experimental Verification. Industrial & Engineering Chemistry Research, 2019, 58, 5146-5157.	3.7	9
65	Ultrafast and Long-Cycle Stable Aluminum Polyphenylene Batteries. ACS Applied Materials & Interfaces, 2022, 14, 30927-30936.	8.0	9
66	Preparation and hydrodesulfurization properties of cobalt-molybdenum-phosphorous catalysts for removal of dibenzothiophene. Applied Petrochemical Research, 2015, 5, 405-411.	1.3	8
67	Realizing a long lifespan aluminum-ion battery through the anchoring effect between Polythiophene and carboxyl modified carbon nanotube. Electrochimica Acta, 2021, 395, 139212.	5.2	8
68	Enhanced electrochemical properties of polyaniline-coated multiwall carbon nanotubes. Journal of Porous Materials, 2008, 15, 647-651.	2.6	7
69	Polycyclic Aromatic Hydrocarbons as a New Class of Promising Cathode Materials for Aluminum-ion Batteries. Angewandte Chemie, 2022, 134, .	2.0	7
70	The effects of magnesium of Zn-Mg-Al additives on catalytic cracking of VGO and in situ reduction of sulfur in gasoline. Applied Petrochemical Research, 2014, 4, 329-336.	1.3	5
71	Modification of USY zeolites with malic-nitric acid for hydrocracking. Applied Petrochemical Research, 2016, 6, 353-359.	1.3	5
72	Dual carbon Li-ion capacitor with high energy density and ultralong cycling life at a wide voltage window. Science China Materials, 2022, 65, 2373-2384.	6.3	5

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73	Novel Electrode Materials and Redox-Active Electrolyte for High-Performance Supercapacitor. ChemElectroChem, 2022, 9, .	3.4	3