Li Li Zhang

List of Publications by Citations

110 papers	22,714 citations	52 h-index	116 g-index
116 ext. papers	24,638 ext. citations	9.7 avg, IF	7.3 L-index

#	Paper	IF	Citations
110	Carbon-based materials as supercapacitor electrodes. *Chemical Society Reviews*, **2009**, 38, 2520-31	58.5	5357
109	Graphene/Polyaniline Nanofiber Composites as Supercapacitor Electrodes. *Chemistry of Materials*, **2010**, 22, 1392-1401	9.6	1884
108	Graphene-Wrapped Fe3O4Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. *Chemistry of Materials*, **2010**, 22, 5306-5313	9.6	1660
107	Graphene-based materials as supercapacitor electrodes. *Journal of Materials Chemistry*, **2010**, 20, 5983		1171
106	Nanoporous Ni(OH)2 thin film on 3D Ultrathin-graphite foam for asymmetric supercapacitor. *ACS Nano*, **2013**, 7, 6237-43	16.7	925
105	Highly conductive and porous activated reduced graphene oxide films for high-power supercapacitors. *Nano Letters*, **2012**, 12, 1806-12	11.5	782
104	MnO2-based nanostructures for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 21380-21423	13	655
103	Advanced Energy Storage Devices: Basic Principles, Analytical Methods, and Rational Materials Design. *Advanced Science*, **2018**, 5, 1700322	13.6	630
102	High-performance flexible asymmetric supercapacitors based on a new graphene foam/carbon nanotube hybrid film. *Energy and Environmental Science*, **2014**, 7, 3709-3719	35.4	506
101	Photocatalytic degradation of dyes over graphene-gold nanocomposites under visible light irradiation. *Chemical Communications*, **2010**, 46, 6099-101	5.8	480
100	Generation of B-doped graphene nanoplatelets using a solution process and their supercapacitor applications. *ACS Nano*, **2013**, 7, 19-26	16.7	471
99	Capacitance of carbon-based electrical double-layer capacitors. *Nature Communications*, **2014**, 5, 3317	17.4	463
98	Structural Directed Growth of Ultrathin Parallel Birnessite on MnO for High-Performance Asymmetric Supercapacitors. *ACS Nano*, **2018**, 12, 1033-1042	16.7	364
97	Layered graphene oxide nanostructures with sandwiched conducting polymers as supercapacitor electrodes. *Langmuir*, **2010**, 26, 17624-8	4	361
96	Ultrathin graphite foam: a three-dimensional conductive network for battery electrodes. *Nano Letters*, **2012**, 12, 2446-51	11.5	360
95	Incorporation of manganese dioxide within ultraporous activated graphene for high-performance electrochemical capacitors. *ACS Nano*, **2012**, 6, 5404-12	16.7	323
94	A flexible alkaline rechargeable Ni/Fe battery based on graphene foam/carbon nanotubes hybrid film. *Nano Letters*, **2014**, 14, 7180-7	11.5	309

93	Facile synthesis of hierarchical Co3O4@MnO2 core–shell arrays on Ni foam for asymmetric supercapacitors. *Journal of Power Sources*, **2014**, 252, 98-106	8.9	307
92	Nitrogen doping of graphene and its effect on quantum capacitance, and a new insight on the enhanced capacitance of N-doped carbon. *Energy and Environmental Science*, **2012**, 5, 9618	35.4	307
91	Graphene-encapsulated Si on ultrathin-graphite foam as anode for high capacity lithium-ion batteries. *Advanced Materials*, **2013**, 25, 4673-7	24	291
90	Outstanding performance of activated graphene based supercapacitors in ionic liquid electrolyte from −50 to 80 °C. *Nano Energy*, **2013**, 2, 403-411	17.1	276
89	Improved electrical conductivity of graphene films integrated with metal nanowires. *Nano Letters*, **2012**, 12, 5679-83	11.5	263
88	Self-assembly of mesoporous nanotubes assembled from interwoven ultrathin birnessite-type MnO2 nanosheets for asymmetric supercapacitors. *Scientific Reports*, **2014**, 4, 3878	4.9	248
87	Surfactant-intercalated, chemically reduced graphene oxide for high performance supercapacitor electrodes. *Journal of Materials Chemistry*, **2011**, 21, 7302		243
86	Pillaring chemically exfoliated graphene oxide with carbon nanotubes for photocatalytic degradation of dyes under visible light irradiation. *ACS Nano*, **2010**, 4, 7030-6	16.7	229
85	Functionalization of chemically derived graphene for improving its electrocapacitive energy storage properties. *Energy and Environmental Science*, **2016**, 9, 1891-1930	35.4	181
84	Volumetric capacitance of compressed activated microwave-expanded graphite oxide (a-MEGO) electrodes. *Nano Energy*, **2013**, 2, 764-768	17.1	174
83	Mesoporous carbon nanospheres with an excellent electrocapacitive performance. *Journal of Materials Chemistry*, **2011**, 21, 2274-2281		153
82	Enhancement of Electrochemical Performance of Macroporous Carbon by Surface Coating of Polyaniline. *Chemistry of Materials*, **2010**, 22, 1195-1202	9.6	146
81	Advanced porous carbon electrodes for electrochemical capacitors. *Journal of Materials Chemistry A*, **2013**, 1, 9395	13	141
80	Large area CVD growth of graphene. *Synthetic Metals*, **2015**, 210, 95-108	3.6	140
79	Manganese oxide–carbon composite as supercapacitor electrode materials. *Microporous and Mesoporous Materials*, **2009**, 123, 260-267	5.3	139
78	Facile synthesis of ultrathin manganese dioxide nanosheets arrays on nickel foam as advanced binder-free supercapacitor electrodes. *Journal of Power Sources*, **2015**, 277, 36-43	8.9	138
77	Hierarchical Cu2O/CuO/Co3O4 core-shell nanowires: synthesis and electrochemical properties. *Nanotechnology*, **2015**, 26, 304002	3.4	131
76	Template Synthesis of Tubular Ruthenium Oxides for Supercapacitor Applications. *Journal of Physical Chemistry C*, **2010**, 114, 13608-13613	3.8	121

75	Sulfurized activated carbon for high energy density supercapacitors. *Journal of Power Sources*, **2014**, 252, 90-97	8.9	114
74	Two-dimensional SnS2@PANI nanoplates with high capacity and excellent stability for lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 3659-3666	13	110
73	Aqueous Rechargeable Alkaline CoxNi2-xS2/TiO2 Battery. *ACS Nano*, **2016**, 10, 1007-16	16.7	108
72	In Situ Activation of Nitrogen-Doped Graphene Anchored on Graphite Foam for a High-Capacity Anode. *ACS Nano*, **2015**, 9, 8609-16	16.7	103
71	A composite electrode consisting of nickel hydroxide, carbon nanotubes, and reduced graphene oxide with an ultrahigh electrocapacitance. *Journal of Power Sources*, **2013**, 222, 326-332	8.9	103
70	Atomically Dispersed Cobalt Trifunctional Electrocatalysts with Tailored Coordination Environment for Flexible Rechargeable Zn–Air Battery and Self-Driven Water Splitting. *Advanced Energy Materials*, **2020**, 10, 2002896	21.8	95
69	Unraveling the Potassium Storage Mechanism in Graphite Foam. *Advanced Energy Materials*, **2019**, 9, 1900579	21.8	86
68	Recent advances in graphene-based hybrid nanostructures for electrochemical energy storage. *Nanoscale Horizons*, **2016**, 1, 340-374	10.8	79
67	Pyrolyzed graphene oxide/resorcinol-formaldehyde resin composites as high-performance supercapacitor electrodes. *Journal of Materials Chemistry*, **2011**, 21, 2663		78
66	Improving Polysulfides Adsorption and Redox Kinetics by the Co N Nanoparticle/N-Doped Carbon Composites for Lithium-Sulfur Batteries. *Small*, **2019**, 15, e1901454	11	77
65	Preparation of activated graphene and effect of activation parameters on electrochemical capacitance. *Carbon*, **2012**, 50, 3482-3485	10.4	75
64	Visible-light-induced dye degradation over copper-modified reduced graphene oxide. *Chemistry - A European Journal*, **2011**, 17, 2428-34	4.8	74
63	Binder-free activated graphene compact films for all-solid-state micro-supercapacitors with high areal and volumetric capacitances. *Energy Storage Materials*, **2015**, 1, 119-126	19.4	70
62	Double-Shelled Phosphorus and Nitrogen Codoped Carbon Nanospheres as Efficient Polysulfide Mediator for High-Performance Lithium-Sulfur Batteries. *Advanced Science*, **2018**, 5, 1800621	13.6	65
61	Rigid three-dimensional Ni3S4 nanosheet frames: controlled synthesis and their enhanced electrochemical performance. *RSC Advances*, **2015**, 5, 8422-8426	3.7	64
60	Construction of vertically aligned PPy nanosheets networks anchored on MnCo2O4 nanobelts for high-performance asymmetric supercapacitor. *Journal of Power Sources*, **2018**, 393, 169-176	8.9	54
59	Overwhelming microwave irradiation assisted synthesis of olivine-structured LiMPO4 (M=Fe, Mn, Co and Ni) for Li-ion batteries. *Nano Energy*, **2014**, 3, 64-79	17.1	52
58	Rational Design of Porous MnO 2 Tubular Arrays via Facile and Templated Method for High Performance Supercapacitors. *Electrochimica Acta*, **2015**, 154, 329-337	6.7	49

57	Nitrogen-Doped Banana Peel-Derived Porous Carbon Foam as Binder-Free Electrode for Supercapacitors. *Nanomaterials*, **2016**, 6,	5.4	44
56	Few-Layered Trigonal WS Nanosheet-Coated Graphite Foam as an Efficient Free-Standing Electrode for a Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 30591-30598	9.5	42
55	Boosting gravimetric and volumetric energy density via engineering macroporous MXene films for supercapacitors. *Chemical Engineering Journal*, **2020**, 395, 124057	14.7	40
54	Recent progress in hierarchically structured O2-cathodes for Li-O2 batteries. *Chemical Engineering Journal*, **2018**, 352, 972-995	14.7	39
53	High Electrochemical Performance of LiFePO4 Cathode Material via In-Situ Microwave Exfoliated Graphene Oxide. *Electrochimica Acta*, **2015**, 151, 240-248	6.7	35
52	Liquid-Solid-Solution Assembly of CoFe 2 O 4 /Graphene Nanocomposite as a High-Performance Lithium-Ion Battery Anode. *Electrochimica Acta*, **2016**, 215, 247-252	6.7	35
51	Mechanism studies of LiFePO4 cathode material: lithiation/delithiation process, electrochemical modification and synthetic reaction. *RSC Advances*, **2014**, 4, 54576-54602	3.7	34
50	Copper nanocrystal modified activated carbon for supercapacitors with enhanced volumetric energy and power density. *Journal of Power Sources*, **2013**, 236, 215-223	8.9	34
49	Binary metal sulfides and polypyrrole on vertically aligned carbon nanotube arrays/carbon fiber paper as high-performance electrodes. *Journal of Materials Chemistry A*, **2015**, 3, 22043-22052	13	33
48	Rational design of polyaniline/MnO2/carbon cloth ternary hybrids as electrodes for supercapacitors. *RSC Advances*, **2015**, 5, 66311-66317	3.7	31
47	Controllable synthesis of MnO2 nanostructures anchored on graphite foam with different morphologies for a high-performance asymmetric supercapacitor. *CrystEngComm*, **2018**, 20, 1690-1697	3.3	31
46	Facile fabrication of flexible rGO/MXene hybrid fiber-like electrode with high volumetric capacitance. *Journal of Power Sources*, **2020**, 448, 227398	8.9	30
45	Bimetallic ruthenium-copper nanoparticles embedded in mesoporous carbon as an effective hydrogenation catalyst. *Nanoscale*, **2013**, 5, 11044-50	7.7	25
44	Preparation and Characterization of Peanut Shell-Based Microporous Carbons as Electrode Materials for Supercapacitors. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2011**, 27, 2836-2840	3.8	24
43	Controllable seeding of single crystal graphene islands from graphene oxide flakes. *Carbon*, **2014**, 79, 406-412	10.4	23
42	Dehydration of lactic acid to acrylic acid over lanthanum phosphate catalysts: the role of Lewis acid sites. *Physical Chemistry Chemical Physics*, **2016**, 18, 23746-54	3.6	23
41	Low-Charge-Carrier-Scattering Three-Dimensional □MnO2/□MnO2 Networks for Ultra-High-Rate Asymmetrical Supercapacitors. *ACS Applied Energy Materials*, **2019**, 2, 1051-1059	6.1	23
40	N-Doped Mesoporous Carbon Sheets/Hollow Carbon Spheres Composite for Supercapacitors. *Langmuir*, **2018**, 34, 15665-15673	4	21

39	Selective conversion of lactic acid to acrylic acid over alkali and alkaline-earth metal co-modified NaY zeolites. *Catalysis Science and Technology*, **2017**, 7, 6101-6111	5.5	20
38	Selection of graphene dopants for Na3V2(PO4)3 graphene composite as high rate, ultra long-life sodium-ion battery cathodes. *Electrochimica Acta*, **2019**, 306, 558-567	6.7	19
37	Annealing modification of MXene films with mechanically strong structures and high electrochemical performance for supercapacitor applications. *Journal of Power Sources*, **2020**, 470, 228356	8.9	19
36	N-doped carbon sheets arrays embedded with CoP nanoparticles as high-performance cathode for Li-S batteries via triple synergistic effects. *Journal of Power Sources*, **2020**, 455, 227959	8.9	19
35	Enhanced rate capability of a lithium ion battery anode based on liquid–solid-solution assembly of Fe2O3 on crumpled graphene. *RSC Advances*, **2016**, 6, 9007-9012	3.7	18
34	Sulfonic-acid-functionalized porous benzene phenol polymer and carbon for catalytic esterification of methanol with acetic acid. *Catalysis Today*, **2011**, 166, 53-59	5.3	17
33	Template-free method for fabricating carbon nanotube combined with thin N-doped porous carbon composite for supercapacitor. *Journal of Materials Science*, **2019**, 54, 6451-6460	4.3	16
32	A Review on the Promising Plasma-Assisted Preparation of Electrocatalysts. *Nanomaterials*, **2019**, 9,	5.4	15
31	Substrate Engineering for CVD Growth of Single Crystal Graphene.. *Small Methods*, **2021**, 5, e2001213	12.8	14
30	Simultaneous Immobilization and Conversion of Polysulfides on Co3O4–CoN Heterostructured Mediators toward High-Performance Lithium–Sulfur Batteries. *ACS Applied Energy Materials*, **2019**, 2, 2570-2578	6.1	13
29	Graphene-supported non-precious metal electrocatalysts for oxygen reduction reactions: the active center and catalytic mechanism. *Journal of Materials Chemistry A*, **2016**, 4, 7148-7154	13	13
28	Lotus root-like porous carbon for potassium ion battery with high stability and rate performance. *Journal of Power Sources*, **2020**, 466, 228303	8.9	13
27	Cobalt sulfide nanoflakes grown on graphite foam for Na-ion batteries with ultrahigh initial coulombic efficiency. *Journal of Materials Chemistry A*, **2020**, 8, 14900-14907	13	12
26	Fe modified mesoporous hollow carbon spheres for selective oxidation of ethylbenzene. *Science China Materials*, **2017**, 60, 1227-1233	7.1	12
25	Effective Oxygen Reduction Reaction Performance of FeCo Alloys In Situ Anchored on Nitrogen-Doped Carbon by the Microwave-Assistant Carbon Bath Method and Subsequent Plasma Etching. *Nanomaterials*, **2019**, 9,	5.4	11
24	A review of biomass-derived graphene and graphene-like carbons for electrochemical energy storage and conversion. *New Carbon Materials*, **2021**, 36, 350-372	4.4	11
23	A general strategy for in-situ fabrication of uniform carbon nanotubes on three-dimensional carbon architectures for electrochemical application. *Applied Surface Science*, **2019**, 496, 143704	6.7	9
22	Nitrogen and Sulfur Co-Doped Graphene-Like Carbon from Industrial Dye Wastewater for Use as a High-Performance Supercapacitor Electrode. *Global Challenges*, **2019**, 3, 1900043	4.3	9

21	Solution-based production of graphene nano-platelets containing extremely low amounts of heteroatoms. *Solid State Sciences*, **2013**, 25, 1-5	3.4	9
20	Fabrication of mesoporous gold networks@MnO2 for high-performance supercapacitors. *Gold Bulletin*, **2017**, 50, 61-68	1.6	7
19	Photocatalytic degradation of cationic and anionic organic pollutants in water via Fe-g-C3N4/CF as a macroscopic photo-Fenton catalyst under visible light irradiation. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104219	6.8	7
18	Waste chrysanthemum tea derived hierarchically porous carbon for CO2 capture. *Journal of Renewable and Sustainable Energy*, **2017**, 9, 064901	2.5	7
17	Synthesis of mesoporous tubular carbon using natural tubular Halloysite as template for supercapacitor. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 12187-12194	2.1	7
16	Porous Carbon Nanosheets Prepared from Plastic Wastes for Supercapacitors. *Journal of Electronic Materials*, **2018**, 47, 5816-5824	1.9	6
15	Conversion of waste plastic into ordered mesoporous carbon for electrochemical applications. *Journal of Materials Research*, **2019**, 34, 941-949	2.5	6
14	Fe3O4/Fe3C@Nitrogen-Doped Carbon for Enhancing Oxygen Reduction Reaction. *ChemNanoMat*, **2018**, 5, 187	3.5	6
13	High efficient oxygen reduction performance of Fe/Fe3C nanoparticles in situ encapsulated in nitrogen-doped carbon via a novel microwave-assisted carbon bath method. *Nano Materials Science*, **2019**, 1, 131-136	10.2	5
12	Synthesis of rich fluffy porous carbon spheres by dissolution□reassembly method for supercapacitors. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 3316-3324	2.1	4
11	Synthesis of Three-Dimensional Hierarchically Porous Carbon Monolith via □Pyrolysis-Capture□ Strategy for Supercapacitors. *Journal of the Electrochemical Society*, **2018**, 165, A2415-A2420	3.9	4
10	Luminogen-functionalized mesoporous SBA-15 for fluorescent detection of antibiotic cefalexin. *Journal of Materials Research*, **2018**, 33, 1442-1448	2.5	4
9	In Situ-Generated Supported Potassium Lactate: Stable Catalysis for Vapor-Phase Dehydration of Lactic Acid to Acrylic Acid. *ACS Omega*, **2019**, 4, 8146-8166	3.9	3
8	Supercapacitors: Electrode Materials Aspects **2011**,		3
7	Tailoring the Electrode Interface with Enhanced Electron Transfer for High-Rate Lithium-Ion Battery Anodes. *Industrial & Engineering Chemistry Research*, **2016**, 55, 6643-6648	3.9	3
6	Supercapacitors: Electrode Materials Aspects **2011**,		2
5	Graphene-CdS Composites with Visible-Light Photocatalytic Activity in Degrading Methylene Blue. *Nanoscience and Nanotechnology - Asia*, **2012**, 2, 79-89	0.7	2
4	Electrochemical Preparation of Lithium-Rich Graphite Anode for LiFePO4 Battery. *High Energy Chemistry*, **2020**, 54, 441-454	0.9	2

3	Controllable fabrication of graphitic nanocarbon encapsulating FexNiy hybrids for efficient splitting of water. *Journal of Alloys and Compounds*, **2020**, 829, 154421	5.7	1
2	The Control of Attached Acid Groups on Sulfonated Polystyrene Nanospheres through the Design of Material Structure. *Applied Mechanics and Materials*, **2012**, 182-183, 222-231	0.3	
1	Electrochemical Properties of Nitrogen-Enriched Templated Microporous Carbons in Different Aqueous Electrolytes. *Advanced Materials Research*, **2012**, 571, 27-37	0.5	