

Jiang-Feng Qian

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95 papers	11,920 citations	53 h-index	99 g-index
99 ext. papers	13,536 ext. citations	10.4 avg, IF	6.5 L-index

#	Paper	IF	Citations
95	High rate and stable cycling of lithium metal anode. <i>Nature Communications</i> , 2015 , 6, 6362	17.4	1485
94	High capacity Na-storage and superior cyclability of nanocomposite Sb/C anode for Na-ion batteries. <i>Chemical Communications</i> , 2012 , 48, 7070-2	5.8	560
93	Sb α nanofibers with long cycle life as an anode material for high-performance sodium-ion batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 323-328	35.4	536
92	High capacity and rate capability of amorphous phosphorus for sodium ion batteries. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4633-6	16.4	535
91	TiO ₂ -Coated Multilayered SnO ₂ Hollow Microspheres for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2009 , 21, 3663-3667	24	512
90	Synergistic Na-storage reactions in Sn ₄ P ₃ as a high-capacity, cycle-stable anode of Na-ion batteries. <i>Nano Letters</i> , 2014 , 14, 1865-9	11.5	353
89	Prussian Blue Cathode Materials for Sodium-Ion Batteries and Other Ion Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1702619	21.8	299
88	Anode-Free Rechargeable Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 7094-7102	15.6	297
87	Dendrite-free lithium deposition with self-aligned nanorod structure. <i>Nano Letters</i> , 2014 , 14, 6889-96	11.5	276
86	High Capacity and Rate Capability of Amorphous Phosphorus for Sodium Ion Batteries. <i>Angewandte Chemie</i> , 2013 , 125, 4731-4734	3.6	245
85	A low-cost and environmentally benign aqueous rechargeable sodium-ion battery based on NaTi ₂ (PO ₄) ₃ /Na ₂ NiFe(CN) ₆ intercalation chemistry. <i>Electrochemistry Communications</i> , 2013 , 31, 145-148	5.1	238
84	P2-type Na _{0.67} Mn _{0.65} Fe _{0.2} Ni _{0.15} O ₂ Cathode Material with High-capacity for Sodium-ion Battery. <i>Electrochimica Acta</i> , 2014 , 116, 300-305	6.7	236
83	Single-crystal FeFe(CN) ₆ nanoparticles: a high capacity and high rate cathode for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10130	13	236
82	Nanosized Na ₄ Fe(CN) ₆ /C Composite as a Low-Cost and High-Rate Cathode Material for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2012 , 2, 410-414	21.8	228
81	Dendrite-free Li deposition using trace-amounts of water as an electrolyte additive. <i>Nano Energy</i> , 2015 , 15, 135-144	17.1	227
80	Highly Crystallized Na α -Fe(CN) α with Suppressed Lattice Defects as Superior Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5393-9	9.5	220
79	Observation and quantification of nanoscale processes in lithium batteries by operando electrochemical (S)TEM. <i>Nano Letters</i> , 2015 , 15, 2168-73	11.5	216

78	Synthesis and electrochemical behaviors of layered Na _{0.67} [Mn _{0.65} Co _{0.2} Ni _{0.15}]O ₂ microflakes as a stable cathode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3895	13	215
77	Mesoporous amorphous FePO ₄ nanospheres as high-performance cathode material for sodium-ion batteries. <i>Nano Letters</i> , 2014 , 14, 3539-43	11.5	210
76	A low cost, all-organic Na-ion battery based on polymeric cathode and anode. <i>Scientific Reports</i> , 2013 , 3, 2671	4.9	197
75	Low-defect Prussian blue nanocubes as high capacity and long life cathodes for aqueous Na-ion batteries. <i>Nano Energy</i> , 2015 , 13, 117-123	17.1	196
74	Enhanced high-rate capability and cycling stability of Na-stabilized layered Li _{1.2} [Co _{0.13} Ni _{0.13} Mn _{0.54}]O ₂ cathode material. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11397	13	194
73	Template-Free Hydrothermal Synthesis of Nanoembossed Mesoporous LiFePO ₄ Microspheres for High-Performance Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3477-3482	3.8	192
72	Energetic aqueous rechargeable sodium-ion battery based on Na ₂ CuFe(CN) ₆ -NaTi ₂ (PO ₄) ₃ intercalation chemistry. <i>ChemSusChem</i> , 2014 , 7, 407-11	8.3	182
71	Enabling room temperature sodium metal batteries. <i>Nano Energy</i> , 2016 , 30, 825-830	17.1	182
70	Multilayered Nanocrystalline SnO ₂ Hollow Microspheres Synthesized by Chemically Induced Self-Assembly in the Hydrothermal Environment. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14067-14074	3.8	179
69	3D Graphene Decorated NaTi ₂ (PO ₄) ₃ Microspheres as a Superior High-Rate and Ultracycle-Stable Anode Material for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502197	21.8	177
68	Reversible 3-Li storage reactions of amorphous phosphorus as high capacity and cycling-stable anodes for Li-ion batteries. <i>Chemical Communications</i> , 2012 , 48, 8931-3	5.8	174
67	Improved electrochemical performances of nanocrystalline Li[Li _{0.2} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ cathode material for Li-ion batteries. <i>RSC Advances</i> , 2012 , 2, 3423	3.7	144
66	A Sn ₉ Sn ₅ S ₄ nanocomposite as anode host materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7181	13	126
65	Graphene-Scaffolded NaV(PO) ₄ Microsphere Cathode with High Rate Capability and Cycling Stability for Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7177-7184	9.5	123
64	A tin(II) sulfide/carbon anode material based on combined conversion and alloying reactions for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16424-16428	13	118
63	Vacancy-Free Prussian Blue Nanocrystals with High Capacity and Superior Cyclability for Aqueous Sodium-Ion Batteries. <i>ChemNanoMat</i> , 2015 , 1, 188-193	3.5	115
62	Redox-active Fe(CN) ₆ (4-)-doped conducting polymers with greatly enhanced capacity as cathode materials for Li-ion batteries. <i>Advanced Materials</i> , 2011 , 23, 4913-7	24	108
61	Electrospun TiO ₂ /C Nanofibers As a High-Capacity and Cycle-Stable Anode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16684-9	9.5	107

60	Hierarchical porous Li ₂ FeSiO ₄ /C composite with 2 Li storage capacity and long cycle stability for advanced Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4988	13	98
59	Enhanced Cycling Stability of Rechargeable LiO ₂ Batteries Using High-Concentration Electrolytes. <i>Advanced Functional Materials</i> , 2016 , 26, 605-613	15.6	91
58	Green synthesis and stable li-storage performance of FeSi(2)/Si@C nanocomposite for lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3753-8	9.5	87
57	SiC ₈ b ₁₁ nanocomposites as high-capacity and cycling-stable anode for sodium-ion batteries. <i>Electrochimica Acta</i> , 2013 , 87, 41-45	6.7	84
56	A Perylene Diimide Crystal with High Capacity and Stable Cyclability for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21095-9	9.5	82
55	Low Defect FeFe(CN) ₆ Framework as Stable Host Material for High Performance Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23706-12	9.5	82
54	Dendrite-free lithium deposition by coating a lithiophilic heterogeneous metal layer on lithium metal anode. <i>Energy Storage Materials</i> , 2020 , 24, 635-643	19.4	80
53	Effective Chemical Prelithiation Strategy for Building a Silicon/Sulfur Li-Ion Battery. <i>ACS Energy Letters</i> , 2019 , 4, 1717-1724	20.1	78
52	Suppression of Dendritic Lithium Growth by in Situ Formation of a Chemically Stable and Mechanically Strong Solid Electrolyte Interphase. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 593-601	8.5	78
51	Self-doped polypyrrole with ionizable sodium sulfonate as a renewable cathode material for sodium ion batteries. <i>Chemical Communications</i> , 2013 , 49, 11370-2	5.8	76
50	Dual Core-Shell Structured Si@SiO@C Nanocomposite Synthesized via a One-Step Pyrolysis Method as a Highly Stable Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31611-31616	9.5	72
49	Li(+)-conductive polymer-embedded nano-Si particles as anode material for advanced Li-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3508-12	9.5	72
48	Graphene-Wrapped Na ₂ C ₁₂ H ₆ O ₄ Nanoflowers as High Performance Anodes for Sodium-Ion Batteries. <i>Small</i> , 2016 , 12, 583-7	11	71
47	Graphene-supported TiO ₂ nanospheres as a high-capacity and long-cycle life anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11351-11356	13	58
46	Mixed salts of LiTFSI and LiBOB for stable LiFePO ₄ -based batteries at elevated temperatures. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2346	13	57
45	Fe(CN) ₆ -doped polypyrrole: a high-capacity and high-rate cathode material for sodium-ion batteries. <i>RSC Advances</i> , 2012 , 2, 5495	3.7	56
44	Facile synthesis and stable lithium storage performances of Sn- sandwiched nanoparticles as a high capacity anode material for rechargeable Li batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7266		55
43	The Impact of Li Grain Size on Coulombic Efficiency in Li Batteries. <i>Scientific Reports</i> , 2016 , 6, 34267	4.9	53

42	Chemically Prelithiated Hard-Carbon Anode for High Power and High Capacity Li-Ion Batteries. <i>Small</i> , 2020 , 16, e1907602	11	52
41	Preparation and electrochemical performance of Sn ₁₀ O ₁ composite as anode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2009 , 189, 730-732	8.9	52
40	A polyimide anode with high capacity and superior cyclability for aqueous Na-ion batteries. <i>Chemical Communications</i> , 2015 , 51, 5097-9	5.8	49
39	Building thermally stable Li-ion batteries using a temperature-responsive cathode. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11239-11246	13	44
38	Chemically Presodiated Hard Carbon Anodes with Enhanced Initial Coulombic Efficiencies for High-Energy Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17620-17627	9.5	39
37	Natural abundance ¹⁷ O, ⁶ Li NMR and molecular modeling studies of the solvation structures of lithium bis(fluorosulfonyl)imide/1,2-dimethoxyethane liquid electrolytes. <i>Journal of Power Sources</i> , 2016 , 307, 231-243	8.9	37
36	Electrochemical performances of Al-based composites as anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2009 , 54, 4118-4122	6.7	37
35	Multinuclear NMR Study of the Solid Electrolyte Interface Formed in Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14741-14748	9.5	36
34	High-Performance GaO Anode for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5519-5526	9.5	35
33	In Situ Formation of CoS Nanoclusters in Sulfur-Doped Carbon Foam as a Sustainable and High-Rate Sodium-Ion Anode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19218-19226	9.5	33
32	Covalently Bonded Silicon/Carbon Nanocomposites as Cycle-Stable Anodes for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16411-16416	9.5	33
31	A low-defect and Na-enriched Prussian blue lattice with ultralong cycle life for sodium-ion battery cathode. <i>Electrochimica Acta</i> , 2020 , 332, 135533	6.7	31
30	Mesoporous Silica Reinforced Hybrid Polymer Artificial Layer for High-Energy and Long-Cycling Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1644-1652	20.1	31
29	Antimony-Coated SiC Nanoparticles as Stable and High-Capacity Anode Materials for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15196-15201	3.8	28
28	An all-vanadium aqueous lithium ion battery with high energy density and long lifespan. <i>Energy Storage Materials</i> , 2019 , 18, 92-99	19.4	28
27	Building a cycle-stable sulphur cathode by tailoring its redox reaction into a solid-phase conversion mechanism. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23396-23407	13	28
26	Enhanced performance of Li LiFePO ₄ cells using CsPF ₆ as an electrolyte additive. <i>Journal of Power Sources</i> , 2015 , 293, 1062-1067	8.9	26
25	A temperature-sensitive poly(3-octylpyrrole)/carbon composite as a conductive matrix of cathodes for building safer Li-ion batteries. <i>Energy Storage Materials</i> , 2019 , 17, 275-283	19.4	23

24	Achieving Desirable Initial Coulombic Efficiencies and Full Capacity Utilization of Li-Ion Batteries by Chemical Prelithiation of Graphite Anode. <i>Advanced Functional Materials</i> , 2021 , 31, 2101181	15.6	23
23	Sodium-Ion Batteries: Prussian Blue Cathode Materials for Sodium-Ion Batteries and Other Ion Batteries (Adv. Energy Mater. 17/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870079	21.8	21
22	Hollow carbon nanofibers as high-performance anode materials for sodium-ion batteries. <i>Nanoscale</i> , 2019 , 11, 21999-22005	7.7	20
21	Surface-Bound Silicon Nanoparticles with a Planar-Oriented N-Type Polymer for Cycle-Stable Li-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13251-13256	9.5	18
20	Pb-sandwiched nanoparticles as anode material for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 291-295	2.6	18
19	Surface-engineering enhanced sodium storage performance of Na ₃ V ₂ (PO ₄) ₃ cathode via in-situ self-decorated conducting polymer route. <i>Science China Chemistry</i> , 2017 , 60, 1546-1553	7.9	18
18	Enabling a high capacity and long cycle life for nano-Si anodes by building a stable solid interface with a Li ⁺ -conducting polymer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9938-9944	13	18
17	NiGaO/rGO Composite as Long-Cycle-Life Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8025-8031	9.5	16
16	Highly Electrochemically-Reversible Mesoporous Na FePO F/C as Cathode Material for High-Performance Sodium-Ion Batteries. <i>Small</i> , 2019 , 15, e1903723	11	16
15	Recent Development of Aqueous Sodium Ion Batteries and Their Key Materials. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2013 , 28, 1165-1171	1	15
14	High-Capacity Hard Carbon Pyrolyzed from Subbituminous Coal as Anode for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 729-735	6.1	15
13	Well-defined Na ₂ Zn ₃ [Fe(CN) ₆] ₂ nanocrystals as a low-cost and cycle-stable cathode material for Na-ion batteries. <i>Electrochemistry Communications</i> , 2019 , 98, 78-81	5.1	14
12	A solar rechargeable battery based on the sodium ion storage mechanism with Fe ₂ (MoO ₄) ₃ microspheres as anode materials. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10627-10631	13	14
11	Flaky and Dense Lithium Deposition Enabled by a Nanoporous Copper Surface Layer on Lithium Metal Anode 2020 , 2, 358-366		12
10	A High-Voltage and Cycle Stable Aqueous Rechargeable Na-Ion Battery Based on Na ₂ Zn ₃ [Fe(CN) ₆] ₂ /NaTi ₂ (PO ₄) ₃ Intercalation Chemistry. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5809-5815	6.1	12
9	Chemically presodiated Sb with a fluoride-rich interphase as a cycle-stable anode for high-energy sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5639-5647	13	11
8	Plastic-Polymer composite electrolytes for solid state dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2010 , 55, 6415-6419	6.7	9
7	Organic Cathode Materials for Rechargeable Batteries. <i>Green Energy and Technology</i> , 2015 , 637-671	0.6	7

6	Effect of Li _{1/3} Mn _{2/3} -Substitution on Electrochemical Performance of P2-Na _{0.74} CoO ₂ Cathode for Sodium-ion Batteries. <i>Electrochimica Acta</i> , 2016 , 222, 862-866	6.7	6
5	Research Progress on High Concentration Electrolytes for Li Metal Batteries. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 2008044-0	3.8	6
4	Understanding the Effect of Additives in Li-ion and Li-Sulfur Batteries by Operando ec- (S)TEM. <i>Microscopy and Microanalysis</i> , 2016 , 22, 22-23	0.5	5
3	Low temperature hydrothermal synthesis and electrochemical performances of LiFePO ₄ microspheres as a cathode material for lithium-ion batteries. <i>Science Bulletin</i> , 2012 , 57, 4164-4169		4
2	Recent progress and challenges in the development of Prussian blue analogues as new intercalation cathode materials. <i>Scientia Sinica Chimica</i> , 2017 , 47, 603-613	1.6	3
1	An efficient and nonflammable organic phosphate electrolyte for dye-sensitized solar cells. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 1939-1942	2.6	2