Jiang-Feng Qian

List of Publications by Year in Descending Order

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	Achieving Desirable Initial Coulombic Efficiencies and Full Capacity Utilization of Li-Ion Batteries by Chemical Prelithiation of Graphite Anode. *Advanced Functional Materials*, **2021**, 31, 2101181	15.6	23
94	Chemically presodiated Sb with a fluoride-rich interphase as a cycle-stable anode for high-energy sodium ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 5639-5647	13	11
93	Covalently Bonded Silicon/Carbon Nanocomposites as Cycle-Stable Anodes for Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 16411-16416	9.5	33
92	Chemically Presodiated Hard Carbon Anodes with Enhanced Initial Coulombic Efficiencies for High-Energy Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 17620-17627	9.5	39
91	Flaky and Dense Lithium Deposition Enabled by a Nanoporous Copper Surface Layer on Lithium Metal Anode **2020**, 2, 358-366		12
90	Chemically Prelithiated Hard-Carbon Anode for High Power and High Capacity Li-Ion Batteries. *Small*, **2020**, 16, e1907602	11	52
89	Research Progress on High Concentration Electrolytes for Li Metal Batteries. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2020**, 2008044-0	3.8	6
88	A low-defect and Na-enriched Prussian blue lattice with ultralong cycle life for sodium-ion battery cathode. *Electrochimica Acta*, **2020**, 332, 135533	6.7	31
87	Dendrite-free lithium deposition by coating a lithiophilic heterogeneous metal layer on lithium metal anode. *Energy Storage Materials*, **2020**, 24, 635-643	19.4	80
86	Mesoporous Silica Reinforced Hybrid Polymer Artificial Layer for High-Energy and Long-Cycling Lithium Metal Batteries. *ACS Energy Letters*, **2020**, 5, 1644-1652	20.1	31
85	NiGaO/rGO Composite as Long-Cycle-Life Anode Material for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 8025-8031	9.5	16
84	Effective Chemical Prelithiation Strategy for Building a Silicon/Sulfur Li-Ion Battery. *ACS Energy Letters*, **2019**, 4, 1717-1724	20.1	78
83	In Situ Formation of CoS Nanoclusters in Sulfur-Doped Carbon Foam as a Sustainable and High-Rate Sodium-Ion Anode. *ACS Applied Materials & Interfaces*, **2019**, 11, 19218-19226	9.5	33
82	Surface-Bound Silicon Nanoparticles with a Planar-Oriented N-Type Polymer for Cycle-Stable Li-Ion Battery Anode. *ACS Applied Materials & Interfaces*, **2019**, 11, 13251-13256	9.5	18
81	A temperature-sensitive poly(3-octylpyrrole)/carbon composite as a conductive matrix of cathodes for building safer Li-ion batteries. *Energy Storage Materials*, **2019**, 17, 275-283	19.4	23
80	A High-Voltage and Cycle Stable Aqueous Rechargeable Na-Ion Battery Based on Na2Zn3[Fe(CN)6]2NaTi2(PO4)3 Intercalation Chemistry. *ACS Applied Energy Materials*, **2019**, 2, 5809-5815	6.1	12
79	Highly Electrochemically-Reversible Mesoporous Na FePO F/C as Cathode Material for High-Performance Sodium-Ion Batteries. *Small*, **2019**, 15, e1903723	11	16

78	Hollow carbon nanofibers as high-performance anode materials for sodium-ion batteries. *Nanoscale*, **2019**, 11, 21999-22005	7.7	20
77	High-Capacity Hard Carbon Pyrolyzed from Subbituminous Coal as Anode for Sodium-Ion Batteries. *ACS Applied Energy Materials*, **2019**, 2, 729-735	6.1	15
76	Well-defined Na2Zn3[Fe(CN)6]2 nanocrystals as a low-cost and cycle-stable cathode material for Na-ion batteries. *Electrochemistry Communications*, **2019**, 98, 78-81	5.1	14
75	An all-vanadium aqueous lithium ion battery with high energy density and long lifespan. *Energy Storage Materials*, **2019**, 18, 92-99	19.4	28
74	Prussian Blue Cathode Materials for Sodium-Ion Batteries and Other Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1702619	21.8	299
73	High-Performance GaO Anode for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 5519-5526	9.5	35
72	Sodium-Ion Batteries: Prussian Blue Cathode Materials for Sodium-Ion Batteries and Other Ion Batteries (Adv. Energy Mater. 17/2018). *Advanced Energy Materials*, **2018**, 8, 1870079	21.8	21
71	Suppression of Dendritic Lithium Growth by in Situ Formation of a Chemically Stable and Mechanically Strong Solid Electrolyte Interphase. *ACS Applied Materials & Interfaces*, **2018**, 10, 593-601	9.5	78
70	Building a cycle-stable sulphur cathode by tailoring its redox reaction into a solid-phase conversion mechanism. *Journal of Materials Chemistry A*, **2018**, 6, 23396-23407	13	28
69	A solar rechargeable battery based on the sodium ion storage mechanism with Fe2(MoO4)3 microspheres as anode materials. *Journal of Materials Chemistry A*, **2018**, 6, 10627-10631	13	14
68	Graphene-Scaffolded NaV(PO) Microsphere Cathode with High Rate Capability and Cycling Stability for Sodium Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 7177-7184	9.5	123
67	Multinuclear NMR Study of the Solid Electrolyte Interface Formed in Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 14741-14748	9.5	36
66	Surface-engineering enhanced sodium storage performance of Na3V2(PO4)3 cathode via in-situ self-decorated conducting polymer route. *Science China Chemistry*, **2017**, 60, 1546-1553	7.9	18
65	Recent progress and challenges in the development of Prussian blue analogues as new intercalation cathode materials. *Scientia Sinica Chimica*, **2017**, 47, 603-613	1.6	3
64	Low Defect FeFe(CN)6 Framework as Stable Host Material for High Performance Li-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 23706-12	9.5	82
63	Anode-Free Rechargeable Lithium Metal Batteries. *Advanced Functional Materials*, **2016**, 26, 7094-7102	15.6	297
62	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. *ACS Applied Materials & Interfaces*, **2016**, 8, 31611-31616	9.5	72
61	Effect of Li1/3Mn2/3-Substitution on Electrochemical Performance of P2-Na0.74CoO2 Cathode for Sodium-ion Batteries. *Electrochimica Acta*, **2016**, 222, 862-866	6.7	6

60	The Impact of Li Grain Size on Coulombic Efficiency in Li Batteries. *Scientific Reports*, **2016**, 6, 34267	4.9	53
59	Understanding the Effect of Additives in Li-ion and Li-Sulfur Batteries by Operando ec- (S)TEM. *Microscopy and Microanalysis*, **2016**, 22, 22-23	0.5	5
58	Electrospun TiO2/C Nanofibers As a High-Capacity and Cycle-Stable Anode for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 16684-9	9.5	107
57	Graphene-supported TiO2 nanospheres as a high-capacity and long-cycle life anode for sodium ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 11351-11356	13	58
56	Building thermally stable Li-ion batteries using a temperature-responsive cathode. *Journal of Materials Chemistry A*, **2016**, 4, 11239-11246	13	44
55	Graphene-Wrapped Na2C12H6O4 Nanoflowers as High Performance Anodes for Sodium-Ion Batteries. *Small*, **2016**, 12, 583-7	11	71
54	Highly Crystallized Na□CoFe(CN)□with Suppressed Lattice Defects as Superior Cathode Material for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 5393-9	9.5	220
53	Natural abundance 17O, 6Li NMR and molecular modeling studies of the solvation structures of lithium bis(fluorosulfonyl)imide/1,2-dimethoxyethane liquid electrolytes. *Journal of Power Sources*, **2016**, 307, 231-243	8.9	37
52	3D Graphene Decorated NaTi2(PO4)3 Microspheres as a Superior High-Rate and Ultracycle-Stable Anode Material for Sodium Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502197	21.8	177
51	Enhanced Cycling Stability of Rechargeable Li□O2 Batteries Using High-Concentration Electrolytes. *Advanced Functional Materials*, **2016**, 26, 605-613	15.6	91
50	Enabling room temperature sodium metal batteries. *Nano Energy*, **2016**, 30, 825-830	17.1	182
49	Observation and quantification of nanoscale processes in lithium batteries by operando electrochemical (S)TEM. *Nano Letters*, **2015**, 15, 2168-73	11.5	216
48	High rate and stable cycling of lithium metal anode. *Nature Communications*, **2015**, 6, 6362	17.4	1485
47	Low-defect Prussian blue nanocubes as high capacity and long life cathodes for aqueous Na-ion batteries. *Nano Energy*, **2015**, 13, 117-123	17.1	196
46	A polyimide anode with high capacity and superior cyclability for aqueous Na-ion batteries. *Chemical Communications*, **2015**, 51, 5097-9	5.8	49
45	Enhanced performance of Li|LiFePO4 cells using CsPF6 as an electrolyte additive. *Journal of Power Sources*, **2015**, 293, 1062-1067	8.9	26
44	Organic Cathode Materials for Rechargeable Batteries. *Green Energy and Technology*, **2015**, 637-671	0.6	7
43	Vacancy-Free Prussian Blue Nanocrystals with High Capacity and Superior Cyclability for Aqueous Sodium-Ion Batteries. *ChemNanoMat*, **2015**, 1, 188-193	3.5	115

42	A Perylene Diimide Crystal with High Capacity and Stable Cyclability for Na-Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 21095-9	9.5	82
41	Dendrite-free Li deposition using trace-amounts of water as an electrolyte additive. *Nano Energy*, **2015**, 15, 135-144	17.1	227
40	Enabling a high capacity and long cycle life for nano-Si anodes by building a stable solid interface with a Li+-conducting polymer. *Journal of Materials Chemistry A*, **2015**, 3, 9938-9944	13	18
39	P2-type Na0.67Mn0.65Fe0.2Ni0.15O2 Cathode Material with High-capacity for Sodium-ion Battery. *Electrochimica Acta*, **2014**, 116, 300-305	6.7	236
38	Mixed salts of LiTFSI and LiBOB for stable LiFePO4-based batteries at elevated temperatures. *Journal of Materials Chemistry A*, **2014**, 2, 2346	13	57
37	Sb□ nanofibers with long cycle life as an anode material for high-performance sodium-ion batteries. *Energy and Environmental Science*, **2014**, 7, 323-328	35.4	536
36	A tin(II) sulfide□arbon anode material based on combined conversion and alloying reactions for sodium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 16424-16428	13	118
35	Energetic aqueous rechargeable sodium-ion battery based on Na2 CuFe(CN)6 -NaTi2 (PO4)3 intercalation chemistry. *ChemSusChem*, **2014**, 7, 407-11	8.3	182
34	Mesoporous amorphous FePO4 nanospheres as high-performance cathode material for sodium-ion batteries. *Nano Letters*, **2014**, 14, 3539-43	11.5	210
33	Li(+)-conductive polymer-embedded nano-Si particles as anode material for advanced Li-ion batteries. *ACS Applied Materials & Interfaces*, **2014**, 6, 3508-12	9.5	72
32	Synergistic Na-storage reactions in Sn4P3 as a high-capacity, cycle-stable anode of Na-ion batteries. *Nano Letters*, **2014**, 14, 1865-9	11.5	353
31	Dendrite-free lithium deposition with self-aligned nanorod structure. *Nano Letters*, **2014**, 14, 6889-96	11.5	276
30	Enhanced high-rate capability and cycling stability of Na-stabilized layered Li1.2[Co0.13Ni0.13Mn0.54]O2 cathode material. *Journal of Materials Chemistry A*, **2013**, 1, 11397	13	194
29	A low-cost and environmentally benign aqueous rechargeable sodium-ion battery based on NaTi2(PO4)3□Na2NiFe(CN)6 intercalation chemistry. *Electrochemistry Communications*, **2013**, 31, 145-148	5.1	238
28	Single-crystal FeFe(CN)6 nanoparticles: a high capacity and high rate cathode for Na-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 10130	13	236
27	A low cost, all-organic Na-ion battery based on polymeric cathode and anode. *Scientific Reports*, **2013**, 3, 2671	4.9	197
26	Self-doped polypyrrole with ionizable sodium sulfonate as a renewable cathode material for sodium ion batteries. *Chemical Communications*, **2013**, 49, 11370-2	5.8	76
25	Hierarchical porous Li2FeSiO4/C composite with 2 Li storage capacity and long cycle stability for advanced Li-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 4988	13	98

24	High capacity and rate capability of amorphous phosphorus for sodium ion batteries. *Angewandte Chemie - International Edition*, **2013**, 52, 4633-6	16.4	535
23	Synthesis and electrochemical behaviors of layered Na0.67[Mn0.65Co0.2Ni0.15]O2 microflakes as a stable cathode material for sodium-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 3895	13	215
22	SiC□Sb□ nanocomposites as high-capacity and cycling-stable anode for sodium-ion batteries. *Electrochimica Acta*, **2013**, 87, 41-45	6.7	84
21	A Sn□SnS□ nanocomposite as anode host materials for Na-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 7181	13	126
20	High Capacity and Rate Capability of Amorphous Phosphorus for Sodium Ion Batteries. *Angewandte Chemie*, **2013**, 125, 4731-4734	3.6	245
19	Recent Development of Aqueous Sodium Ion Batteries and Their Key Materials. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2013**, 28, 1165-1171	1	15
18	Pb-sandwiched nanoparticles as anode material for lithium-ion batteries. *Journal of Solid State Electrochemistry*, **2012**, 16, 291-295	2.6	18
17	Reversible 3-Li storage reactions of amorphous phosphorus as high capacity and cycling-stable anodes for Li-ion batteries. *Chemical Communications*, **2012**, 48, 8931-3	5.8	174
16	Fe(CN)6□4-doped polypyrrole: a high-capacity and high-rate cathode material for sodium-ion batteries. *RSC Advances*, **2012**, 2, 5495	3.7	56
15	High capacity Na-storage and superior cyclability of nanocomposite Sb/C anode for Na-ion batteries. *Chemical Communications*, **2012**, 48, 7070-2	5.8	560
14	Low temperature hydrothermal synthesis and electrochemical performances of LiFePO4 microspheres as a cathode material for lithium-ion batteries. *Science Bulletin*, **2012**, 57, 4164-4169		4
13	Improved electrochemical performances of nanocrystalline Li[Li0.2Mn0.54Ni0.13Co0.13]O2 cathode material for Li-ion batteries. *RSC Advances*, **2012**, 2, 3423	3.7	144
12	Green synthesis and stable li-storage performance of FeSi(2)/Si@C nanocomposite for lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2012**, 4, 3753-8	9.5	87
11	Nanosized Na4Fe(CN)6/C Composite as a Low-Cost and High-Rate Cathode Material for Sodium-Ion Batteries. *Advanced Energy Materials*, **2012**, 2, 410-414	21.8	228
10	Redox-active Fe(CN)(6)(4-)-doped conducting polymers with greatly enhanced capacity as cathode materials for Li-ion batteries. *Advanced Materials*, **2011**, 23, 4913-7	24	108
9	Antimony-Coated SiC Nanoparticles as Stable and High-Capacity Anode Materials for Li-Ion Batteries. *Journal of Physical Chemistry C*, **2010**, 114, 15196-15201	3.8	28
8	Facile synthesis and stable lithium storage performances of Sn- sandwiched nanoparticles as a high capacity anode material for rechargeable Li batteries. *Journal of Materials Chemistry*, **2010**, 20, 7266		55
7	Template-Free Hydrothermal Synthesis of Nanoembossed Mesoporous LiFePO4 Microspheres for High-Performance Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2010**, 114, 3477-3482	3.8	192

6	Plastic□olymer composite electrolytes for solid state dye-sensitized solar cells. *Electrochimica Acta* , **2010**, 55, 6415-6419	6.7	9
5	TiO2-Coated Multilayered SnO2 Hollow Microspheres for Dye-Sensitized Solar Cells. *Advanced Materials*, **2009**, 21, 3663-3667	24	512
4	Electrochemical performances of Al-based composites as anode materials for Li-ion batteries. *Electrochimica Acta*, **2009**, 54, 4118-4122	6.7	37
3	An efficient and nonflammable organic phosphate electrolyte for dye-sensitized solar cells. *Journal of Applied Electrochemistry*, **2009**, 39, 1939-1942	2.6	2
2	Preparation and electrochemical performance of Sn□o□ composite as anode material for Li-ion batteries. *Journal of Power Sources*, **2009**, 189, 730-732	8.9	52
1	Multilayered Nanocrystalline SnO2 Hollow Microspheres Synthesized by Chemically Induced Self-Assembly in the Hydrothermal Environment. *Journal of Physical Chemistry C*, **2007**, 111, 14067-14071	3.8	179