Li-Qiang Xu

List of Publications by Year in descending order

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Version: 2024-02-01

115 papers	5,879 citations	53794 45 h-index	85541 71 g-index
117 all docs	117 docs citations	117 times ranked	6886 citing authors

#	Article	IF	Citations
1	Rational Design of Tungsten Selenide @ Nâ€Doped Carbon Nanotube for Highâ€Stable Potassiumâ€Ion Batteries. Small, 2022, 18, e2104363.	10.0	20
2	Ultrafine zirconium boride nanoparticles constructed bidirectional catalyst for ultrafast and long-lived lithium-sulfur batteries. Energy Storage Materials, 2022, 45, 130-141.	18.0	34
3	Petroleum coke derived porous carbon/NiCoP with efficient reviving catalytic and adsorptive activity as sulfur host for high performance lithiumâ€"sulfur batteries. Nano Research, 2022, 15, 4058-4067.	10.4	10
4	Space-confined growth of Bi2Se3 nanosheets encapsulated in N-doped carbon shell lollipop-like composite for full/half potassium-ion and lithium-ion batteries. Nano Today, 2022, 43, 101408.	11.9	30
5	Iron Selenideâ€Based Heterojunction Construction and Defect Engineering for Fast Potassium/Sodiumâ€Ion Storage. Small, 2022, 18, e2107252.	10.0	46
6	Manipulating Electrocatalytic Polysulfide Redox Kinetics by 1D Coreâ€"Shell Like Composite for Lithiumâ€"Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	19.5	47
7	Niobium Diboride Nanoparticles Accelerating Polysulfide Conversion and Directing Li₂S Nucleation Enabled High Areal Capacity Lithiumâ€"Sulfur Batteries. ACS Nano, 2022, 16, 4947-4960.	14.6	88
8	In Situ Growth of CoS₂/ZnS Nanoparticles on Graphene Sheets as an Ultralong Cycling Stability Anode for Potassium Ion Storage. ACS Applied Materials & Interfaces, 2022, 14, 15324-15336.	8.0	27
9	Interpenetrated N-rich MOF derived vesicular N-doped carbon for high performance lithium ion battery. Dalton Transactions, 2022, 51, 7817-7827.	3.3	2
10	Preferential growth of HT-LiCo1-xAlxO2 cathode micro-bricks via an intermediate-facilitated solid-solid-gas reaction. Journal of Power Sources, 2022, 542, 231700.	7.8	2
11	Yolkâ€"shell structured CoSe₂/C nanospheres as multifunctional anode materials for both full/half sodium-ion and full/half potassium-ion batteries. Nanoscale, 2021, 13, 10385-10392.	5.6	36
12	A porous polycrystalline NiCo₂P_x as a highly efficient host for sulfur cathodes in Liâ€"S batteries. Journal of Materials Chemistry A, 2021, 9, 23149-23156.	10.3	19
13	Bimetallic nickel cobalt sulfides with hierarchical coralliform architecture for ultrafast and stable Na-ion storage. Nano Research, 2021, 14, 4014-4024.	10.4	48
14	Dandelion-Like Bi2S3/rGO hierarchical microspheres as high-performance anodes for potassium-ion and half/full sodium-ion batteries. Nano Research, 2021, 14, 4696-4703.	10.4	39
15	Inâ€situ Nanoâ€Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Deâ€alloy for Potassium Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, 15381-15389.	13.8	54
16	Inâ€situ Nanoâ€Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Deâ€alloy for Potassium Ion Batteries. Angewandte Chemie, 2021, 133, 15509-15517.	2.0	7
17	Frontispiz: Inâ€situ Nanoâ€Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Deâ€alloy for Potassium Ion Batteries. Angewandte Chemie, 2021, 133, .	2.0	0
18	Frontispiece: Inâ€situ Nanoâ€Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Deâ€alloy for Potassium Ion Batteries. Angewandte Chemie - International Edition, 2021, 60, .	13.8	1

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19	Construction and electrochemical mechanism investigation of hierarchical coreâ€"shell like composite as high performance anode for potassium ion batteries. Nano Research, 2021, 14, 3552-3561.	10.4	21
20	Regulating polysulfide intermediates by ultrathin Co-Bi nanosheet electrocatalyst in lithiumâ^'sulfur batteries. Nano Today, 2021, 40, 101246.	11.9	34
21	Phosphorus-modified Fe₄N@N,P co-doped graphene as an efficient sulfur host for high-performance lithiumâ€"sulfur batteries. Journal of Materials Chemistry A, 2021, 9, 6538-6546.	10.3	37
22	Emerging two-dimensional nanomaterials for electrochemical nitrogen reduction. Chemical Society Reviews, 2021, 50, 12744-12787.	38.1	75
23	Rational fabrication of CoS2/Co4S3@N-doped carbon microspheres as excellent cycling performance anode for half/full sodium ion batteries. Energy Storage Materials, 2020, 25, 679-686.	18.0	111
24	Willowâ€Leafâ€Like ZnSe@Nâ€Doped Carbon Nanoarchitecture as a Stable and Highâ€Performance Anode Material for Sodiumâ€Ion and Potassiumâ€Ion Batteries. Small, 2020, 16, e2004580.	10.0	106
25	Ultrahigh-Areal-Capacity Battery Anodes Enabled by Free-Standing Vanadium Nitride@N-Doped Carbon/Graphene Architecture. ACS Applied Materials & Interfaces, 2020, 12, 49607-49616.	8.0	24
26	Fe-MOF-Derived Efficient ORR/OER Bifunctional Electrocatalyst for Rechargeable Zincâ€"Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 44710-44719.	8.0	152
27	Co4N nanoparticles encapsulated in N-doped carbon box as tri-functional catalyst for Zn-air battery and overall water splitting. Applied Catalysis B: Environmental, 2020, 275, 119104.	20.2	159
28	Facile Synthesis of High Electrochemical Performance Na₂FePO₄F@CNT&GN Cathode Material as Sodium Ion Batteries. ACS Applied Energy Materials, 2020, 3, 6232-6239.	5.1	19
29	Conductive cobalt doped niobium nitride porous spheres as an efficient polysulfide convertor for advanced lithium-sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 6276-6282.	10.3	58
30	Hollow sphere formation by the self aggregation of perovskite fluoride NaNiF₃ nanocrystals and the application of these spheres as an electrode in an ultrahigh performance asymmetric supercapacitor. New Journal of Chemistry, 2019, 43, 11959-11967.	2.8	21
31	Co0.85Se hollow spheres constructed of ultrathin 2D mesoporous nanosheets as a novel bifunctional-electrode for supercapacitor and water splitting. Nano Research, 2019, 12, 2941-2946.	10.4	25
32	Coral-like Ni_xCo_{1â^'x}Se₂ for Na-ion battery with ultralong cycle life and ultrahigh rate capability. Journal of Materials Chemistry A, 2019, 7, 3933-3940.	10.3	85
33	In-situ rooting ZnSe/N-doped hollow carbon architectures as high-rate and long-life anode materials for half/full sodium-ion and potassium-ion batteries. Energy Storage Materials, 2019, 23, 35-45.	18.0	189
34	Porous honeycomb-like C3N4/rGO composite as host for high performance Li-S batteries. Science China Materials, 2019, 62, 1265-1274.	6.3	23
35	Enteromorpha prolifera-derived Fe3C/C composite as advanced catalyst for hydroxyl radical generation and efficient removal for organic dye and antibiotic. Journal of Hazardous Materials, 2019, 378, 120728.	12.4	21
36	Double-Shelled Niâ€"Feâ€"P/N-Doped Carbon Nanobox Derived from a Prussian Blue Analogue as an Electrode Material for K-Ion Batteries and Liâ€"S Batteries. ACS Energy Letters, 2019, 4, 1496-1504.	17.4	138

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37	Hierarchical flower-like cobalt phosphosulfide derived from Prussian blue analogue as an efficient polysulfides adsorbent for long-life lithium-sulfur batteries. Nano Research, 2019, 12, 1115-1120.	10.4	24
38	Ultrathin mesoporous F-doped Î±-Ni(OH)₂ nanosheets as an efficient electrode material for water splitting and supercapacitors. Journal of Materials Chemistry A, 2019, 7, 9656-9664.	10.3	85
39	Multifunctional vanadium nitride@N-doped carbon composites for kinetically enhanced lithiumâ€“sulfur batteries. New Journal of Chemistry, 2018, 42, 5109-5116.	2.8	34
40	Horsetail-derived Si@N-doped carbon as low-cost and long cycle life anode for Li-ion half/full cells. Electrochimica Acta, 2018, 264, 173-182.	5.2	61
41	Sandwich-like Ni2P nanoarray/nitrogen-doped graphene nanoarchitecture as a high-performance anode for sodium and lithium ion batteries. Energy Storage Materials, 2018, 15, 234-241.	18.0	179
42	Mesoporous Mn-Sn bimetallic oxide nanocubes as long cycle life anodes for Li-ion half/full cells and sulfur hosts for Li-S batteries. Nano Research, 2018, 11, 3555-3566.	10.4	31
43	Ultrafine Co_{1â^'x}S nanoparticles embedded in a nitrogen-doped porous carbon hollow nanosphere composite as an anode for superb sodium-ion batteries and lithium-ion batteries. Nanoscale, 2018, 10, 2804-2811.	5.6	69
44	Cobalt-Doped Vanadium Nitride Yolkâ€“Shell Nanospheres @ Carbon with Physical and Chemical Synergistic Effects for Advanced Liâ€“S Batteries. ACS Applied Materials & Interfaces, 2018, 10, 11642-11651.	8.0	102
45	Titanium nitride hollow nanospheres with strong lithium polysulfide chemisorption as sulfur hosts for advanced lithium-sulfur batteries. Nano Research, 2018, 11, 4302-4312.	10.4	81
46	Conductive and Polar Titanium Boride as a Sulfur Host for Advanced Lithiumâ€“Sulfur Batteries. Chemistry of Materials, 2018, 30, 6969-6977.	6.7	101
47	Sandwich-like Ni2P nanoarray/nitrogen-doped graphene nanoarchitecture as a high-performance anode for sodium and lithium ion batteries. Data in Brief, 2018, 20, 1999-2002.	1.0	11
48	NiS_{1.03} Hollow Spheres and Cages as Superhigh Rate Capacity and Stable Anode Materials for Half/Full Sodium-Ion Batteries. ACS Nano, 2018, 12, 8277-8287.	14.6	127
49	A multi-shelled CoP nanosphere modified separator for highly efficient Liâ€“S batteries. Nanoscale, 2018, 10, 13694-13701.	5.6	116
50	Porous organic polymer/RGO composite as high performance cathode for half and full sodium ion batteries. Journal of Power Sources, 2017, 343, 424-430.	7.8	48
51	General Fabrication of Boride, Carbide, and Nitride Nanocrystals via a Metal-Hydrolysis-Assisted Process. Inorganic Chemistry, 2017, 56, 2440-2447.	4.0	23
52	Cobalt- and Cadmium-Based Metalâ€“Organic Frameworks as High-Performance Anodes for Sodium Ion Batteries and Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 7160-7168.	8.0	150
53	A novel polyoxometalate-based hybrid containing a 2D [CoMo₈O₂₆]_{âˆž} structure as the anode for lithium-ion batteries. Chemical Communications, 2017, 53, 10560-10563.	4.1	67
54	Mesoporous Tinâ€Based Oxide Nanospheres/Reduced Graphene Composites as Advanced Anodes for Lithiumâ€Ion Half/Full Cells and Sodiumâ€Ion Batteries. Chemistry - A European Journal, 2017, 23, 13724-13733.	3.3	45

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55	NaFeTiO4 nanorod/multi-walled carbon nanotubes composite as an anode material for sodium-ion batteries with high performances in both half and full cells. Nano Research, 2017, 10, 3585-3595.	10.4	12
56	MIL-100(V) and MIL-100(V)/rGO with various valence states of vanadium ions as sulfur cathode hosts for lithium-sulfur batteries. Nano Research, 2017, 10, 344-353.	10.4	82
57	Ce-doped Î±-FeOOH nanorods as high-performance anode material for energy storage. Journal of Power Sources, 2016, 327, 423-431.	7.8	45
58	Cu3P/RGO Nanocomposite as a New Anode for Lithium-Ion Batteries. Scientific Reports, 2016, 6, 35189.	3.3	51
59	Fabrication of Various V₂O₅ Hollow Microspheres as Excellent Cathode for Lithium Storage and the Application in Full Cells. ACS Applied Materials & Interfaces, 2016, 8, 17205-17211.	8.0	46
60	Solvothermal preparation of tin phosphide as a long-life anode for advanced lithium and sodium ion batteries. Journal of Power Sources, 2016, 304, 346-353.	7.8	111
61	Mesh-like LiZnBO₃/C composites as a prominent stable anode for lithium ion rechargeable batteries. Journal of Materials Chemistry A, 2016, 4, 5489-5494.	10.3	13
62	Fabrication of hierarchical porous MnCo₂O₄ and CoMn₂O₄ microspheres composed of polyhedral nanoparticles as promising anodes for long-life LIBs. Journal of Materials Chemistry A, 2015, 3, 14298-14306.	10.3	143
63	A hexangular ringâ€“core NiCo₂O₄ porous nanosheet/NiO nanoparticle composite as an advanced anode material for LIBs and catalyst for CO oxidation applications. Chemical Communications, 2015, 51, 14768-14771.	4.1	32
64	One-dimensional manganese borate hydroxide nanorods and the corresponding manganese oxyborate nanorods as promising anodes for lithium ion batteries. Nano Research, 2015, 8, 554-565.	10.4	31
65	Facile fabrication of hierarchical porous rose-like NiCo₂O₄ nanoflake/MnCo₂O₄ nanoparticle composites with enhanced electrochemical performance for energy storage. Journal of Materials Chemistry A, 2015, 3, 16142-16149.	10.3	106
66	Mnâ€Doped Î±â€FeOOH Nanorods and Î±â€Fe₂O₃ Mesoporous Nanorods: Facile Synthesis and Applications as High Performance Anodes for LIBs. Advanced Electronic Materials, 2015, 1, 1400057.	5.1	55
67	Facile Synthesis of Hierarchical Mesoporous Honeycomb-like NiO for Aqueous Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2015, 7, 19930-19940.	8.0	200
68	Co-pyrolysis synthesis of Fe3BO6 nanorods as high performance anodes for lithium-ion batteries. RSC Advances, 2014, 4, 8245.	3.6	17
69	Controllable synthesis of hierarchical ZnSn(OH)₆ and Zn₂SnO₄ hollow nanospheres and their applications as anodes for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 17979-17985.	10.3	49
70	Facile synthesis of one-dimensional Mn₃O₄/Zn₂SnO₄ hybrid composites and their high performance as anodes for LIBs. Nanoscale, 2014, 6, 14221-14226.	5.6	30
71	Hierarchical porous metal ferrite ball-in-ball hollow spheres: General synthesis, formation mechanism, and high performance as anode materials for Li-ion batteries. Nano Research, 2014, 7, 1116-1127.	10.4	80
72	Controllable synthesis, property investigation of hexagonal boron nitride micromesh and its functionalization by Ag nanoparticles. Catalysis Science and Technology, 2013, 3, 222-229.	4.1	10

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73	In-situ controllable synthesis and performance investigation of carbon-coated monoclinic and hexagonal LiMnBO3 composites as cathode materials in lithium-ion batteries. Journal of Power Sources, 2013, 236, 54-60.	7.8	40
74	Facile synthesis of uniform h-BN nanocrystals and their application as a catalyst support towards the selective oxidation of benzyl alcohol. RSC Advances, 2012, 2, 10689.	3.6	20
75	Synthesis, characterization and application of carbon nanocages as anode materials for high-performance lithium-ion batteries. RSC Advances, 2012, 2, 284-291.	3.6	62
76	Synthesis, properties and applications of nanoscale nitrides, borides and carbides. Nanoscale, 2012, 4, 4900.	5.6	60
77	Additive-assisted synthesis of boride, carbide, and nitride micro/nanocrystals. Journal of Solid State Chemistry, 2012, 194, 219-224.	2.9	24
78	Branched Mesoporous Mn₃O₄ Nanorods: Facile Synthesis and Catalysis in the Degradation of Methylene Blue. Chemistry - A European Journal, 2012, 18, 5319-5324.	3.3	102
79	Synthesis of superconducting sphereâ€like Mo₂C nanoparticles in an autoclave. Crystal Research and Technology, 2012, 47, 467-470.	1.3	5
80	High yield synthesis of novel boron nitride submicro-boxes and their photocatalytic application under visible light irradiation. Catalysis Science and Technology, 2011, 1, 1159.	4.1	62
81	General synthesis of carbon nanocages and their adsorption of toxic compounds from cigarette smoke. Nanoscale, 2011, 3, 3251.	5.6	49
82	Synthesis of MnO/C composites through a solid state reaction and their transformation into MnO2 nanorods. Journal of Alloys and Compounds, 2011, 509, 6217-6221.	5.5	26
83	Fe3BO5@carbon coreâ€“shell urchin-like structures prepared via a one-step co-pyrolysis method. Materials Letters, 2011, 65, 2479-2481.	2.6	1
84	Nano-CuO coated LiCoO2: Synthesis, improved cycling stability and good performance at high rates. Electrochimica Acta, 2011, 56, 9027-9031.	5.2	44
85	Convenient synthesis and applications of gram scale boron nitride nanosheets. Catalysis Science and Technology, 2011, 1, 1119.	4.1	53
86	A simple pyrolysis route to synthesize leaf-like carbon sheets. Carbon, 2010, 48, 3420-3426.	10.3	20
87	Recent Development of the Synthesis and Engineering Applications of One-Dimensional Boron Nitride Nanomaterials. Journal of Nanomaterials, 2010, 2010, 1-16.	2.7	12
88	3C-SiC nanowires and micro-scaled polyhedra: Synthesis, characterization and properties. Journal of Alloys and Compounds, 2010, 501, 60-66.	5.5	16
89	Sulfur-assisted synthesis of nitride nanocrystals. Dalton Transactions, 2010, 39, 2855.	3.3	22
90	A versatile route for the convenient synthesis of rare-earth and alkaline-earth hexaborides at mild temperatures. CrystEngComm, 2010, 12, 3923.	2.6	43

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91	Au-Ag alloy nanoporous nanotubes. Nano Research, 2009, 2, 386-393.	10.4	58
92	A facile route to prepare boron nitride hollow particles at 450Â°C. Journal of Crystal Growth, 2009, 311, 3682-3686.	1.5	18
93	The synthesis of nanostructured SiC from waste plastics and silicon powder. Nanotechnology, 2009, 20, 355604.	2.6	29
94	Hydrothermal Synthesis of Microscaled Cu@C Polyhedral Composites and Their Sensitivity to Convergent Electron Beams. Langmuir, 2009, 25, 6363-6367.	3.5	18
95	Synthesis and characterization of 3C and 2H-SiC nanocrystals starting from SiO2, C2H5OH and metallic Mg. Journal of Alloys and Compounds, 2009, 484, 341-346.	5.5	24
96	Nanotubular Mesoporous PdCu Bimetallic Electrocatalysts toward Oxygen Reduction Reaction. Chemistry of Materials, 2009, 21, 3110-3116.	6.7	147
97	Thermal-induced shape evolution from uniform triangular to hexagonal r-BN nanoplates. Journal of Materials Chemistry, 2009, 19, 8086.	6.7	30
98	A general route for the convenient synthesis of crystalline hexagonal boron nitride micromesh at mild temperature. Journal of Materials Chemistry, 2009, 19, 1989.	6.7	51
99	Growth of cubic and hexagonal BN particles by using BBr3, NH4Br and metallic Na as reactants. Diamond and Related Materials, 2009, 18, 1421-1425.	3.9	10
100	Chemical Synthesis of Aluminum Nitride Nanorods in an Autoclave at 200 Â°C. Chemistry Letters, 2009, 38, 622-623.	1.3	3
101	Sulfurâ€Assisted Approach for the Lowâ€Temperature Synthesis of Î²â€SiC Nanowires. European Journal of Inorganic Chemistry, 2008, 2008, 3883-3888.	2.0	30
102	Solvothermal Synthesis of Si₃N₄ Nanomaterials at a Low Temperature. Journal of the American Ceramic Society, 2008, 91, 1725-1728.	3.8	21
103	Selective Synthesis of 3C-SiC Hollow Nanospheres and Nanowires. Crystal Growth and Design, 2008, 8, 2431-2436.	3.0	31
104	A Facile Approach for the Synthesis of Uniform Hollow Carbon Nanospheres. Journal of Physical Chemistry C, 2008, 112, 1896-1900.	3.1	29
105	Synthesis of Uniform TiC Hollow Spheres by a Co-reduction Route at Low Temperature. Journal of Physical Chemistry C, 2007, 111, 16202-16206.	3.1	17
106	A convenient catalytic approach to synthesize straight boron nitride nanotubes using synergic nitrogen source. Chemical Physics Letters, 2007, 440, 253-258.	2.6	33
107	The formation of a layer of Fe3O4 nanoplates between two carbon films. Carbon, 2007, 45, 1839-1846.	10.3	25
108	High-yield synthesis of single-crystalline 3Câ€“SiC nanowires by a facile autoclave route. Materials Letters, 2007, 61, 3913-3915.	2.6	19

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109	In Situ Synthesis, Magnetic Property, and Formation Mechanism of Fe3O4Particles Encapsulated in 1D Bamboo-Shaped Carbon Microtubes. Journal of Physical Chemistry B, 2006, 110, 3871-3875.	2.6	34
110	A novel route to hollow and solid carbon spheres. Carbon, 2005, 43, 1090-1092.	10.3	98
111	A self-assembly template approach to form hollow hexapod-like, flower-like and tube-like carbon materials. Carbon, 2005, 43, 1560-1562.	10.3	17
112	Formation of Carbon Nanotubes and Cubic and Spherical Nanocages. Journal of Physical Chemistry B, 2004, 108, 20090-20094.	2.6	21
113	Formation, Characterization, and Magnetic Properties of Fe3O4Nanowires Encapsulated in Carbon Microtubes. Journal of Physical Chemistry B, 2004, 108, 10859-10862.	2.6	93
114	A Co-pyrolysis Method to Boron Nitride Nanotubes at Relative Low Temperature. Chemistry of Materials, 2003, 15, 2675-2680.	6.7	68
115	Cu5.5FeS6.5 nanotubesÃ¢â‚¬â€a new kind of ternary sulfide nanotube. New Journal of Chemistry, 2001, 25, 1359-1361.	2.8	18