Cheng Chao Li

List of Publications by Citations

117 papers	5,902 citations	39 h-index	75 g-index
127 ext. papers	7,312 ext. citations	9.7 avg, IF	6.16 L-index

#	Paper	IF	Citations
117	High-performance and ultra-stable lithium-ion batteries based on MOF-derived ZnO@ZnO quantum dots/C core-shell nanorod arrays on a carbon cloth anode. *Advanced Materials*, **2015**, 27, 2400-5	24	528
116	MS2 (M = Co and Ni) Hollow Spheres with Tunable Interiors for High-Performance Supercapacitors and Photovoltaics. *Advanced Functional Materials*, **2014**, 24, 2155-2162	15.6	362
115	In situ growth of NiCo(2)S(4) nanosheets on graphene for high-performance supercapacitors. *Chemical Communications*, **2013**, 49, 10178-80	5.8	347
114	One-Step Synthesis of Hierarchical SnO2 Hollow Nanostructures via Self-Assembly for High Power Lithium Ion Batteries. *Journal of Physical Chemistry C*, **2010**, 114, 8084-8088	3.8	242
113	Facile synthesis of uniform mesoporous ZnCo2O4 microspheres as a high-performance anode material for Li-ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 5596	13	233
112	Challenges in the material and structural design of zinc anode towards high-performance aqueous zinc-ion batteries. *Energy and Environmental Science*, **2020**, 13, 3330-3360	35.4	185
111	Morphogenesis of Highly Uniform CoCO3 Submicrometer Crystals and Their Conversion to Mesoporous Co3O4 for Gas-Sensing Applications. *Chemistry of Materials*, **2009**, 21, 4984-4992	9.6	179
110	Tuning the Kinetics of Zinc-Ion Insertion/Extraction in V O by In Situ Polyaniline Intercalation Enables Improved Aqueous Zinc-Ion Storage Performance. *Advanced Materials*, **2020**, 32, e2001113	24	158
109	A novel amperometric biosensor based on NiO hollow nanospheres for biosensing glucose. *Talanta*, **2008**, 77, 455-9	6.2	154
108	Electronic Structure Regulation of Layered Vanadium Oxide via Interlayer Doping Strategy toward Superior High-Rate and Low-Temperature Zinc-Ion Batteries. *Advanced Functional Materials*, **2020**, 30, 1907684	15.6	131
107	Porous Carbon Nanofibers Derived from Conducting Polymer: Synthesis and Application in Lithium-Ion Batteries with High-Rate Capability. *Journal of Physical Chemistry C*, **2009**, 113, 13438-13442	3.8	125
106	Synthesis of cobalt ion-based coordination polymer nanowires and their conversion into porous Co3O4 nanowires with good lithium storage properties. *Chemistry - A European Journal*, **2010**, 16, 5215-21	4.8	125
105	Synergistic Manipulation of Zn Ion Flux and Desolvation Effect Enabled by Anodic Growth of a 3D ZnF Matrix for Long-Lifespan and Dendrite-Free Zn Metal Anodes. *Advanced Materials*, **2021**, 33, e2007388	24	123
104	Tin quantum dots embedded in nitrogen-doped carbon nanofibers as excellent anode for lithium-ion batteries. *Nano Energy*, **2014**, 9, 61-70	17.1	111
103	Construction of hierarchical CoS nanowire@NiCo2S4 nanosheet arrays via one-step ion exchange for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 24033-24040	13	106
102	Enhanced gas sensing properties of ZnO/SnO2 hierarchical architectures by glucose-induced attachment. *CrystEngComm*, **2011**, 13, 1557-1563	3.3	100
101	Persistent zinc-ion storage in mass-produced V2O5 architectures. *Nano Energy*, **2019**, 60, 171-178	17.1	98

100	Quasi-reversible conversion reaction of CoSe2/nitrogen-doped carbon nanofibers towards long-lifetime anode materials for sodium-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 7088-7098	12	89
99	Oxyvanite V3O5: A new intercalation-type anode for lithium-ion battery. *Informa Materia*, **2019**, 1, 251	23.1	87
98	Rapid and ultrahigh ethanol sensing based on Au-coated ZnO nanorods. *Nanotechnology*, **2008**, 19, 035501	3.4	78
97	SnO2 monolayer porous hollow spheres as a gas sensor. *Nanotechnology*, **2009**, 20, 455503	3.4	77
96	Porous ultrathin carbon nanobubbles formed carbon nanofiber webs for high-performance flexible supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 14801-14810	13	74
95	Nanostructured Li V (PO) Cathodes. *Small*, **2018**, 14, e1800567	11	65
94	Carbon Coated SnS/SnO Heterostructures Wrapping on CNFs as an Improved-Performance Anode for Li-Ion Batteries: Lithiation-Induced Structural Optimization upon Cycling. *ACS Applied Materials & Interfaces*, **2016**, 8, 30256-30263	9.5	62
93	Zinc ions pillared vanadate cathodes by chemical pre-intercalation towards long cycling life and low-temperature zinc ion batteries. *Journal of Power Sources*, **2019**, 441, 227192	8.9	62
92	A facile titanium glycolate precursor route to mesoporous Au/Li4Ti5O12 spheres for high-rate lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2012**, 4, 1233-8	9.5	61
91	Synthesis of mesoporous SnO2 spheres via self-assembly and superior lithium storage properties. *Electrochimica Acta*, **2011**, 56, 2358-2363	6.7	60
90	Challenges and recent progress in the design of advanced electrode materials for rechargeable Mg batteries. *Energy Storage Materials*, **2019**, 20, 118-138	19.4	60
89	Fast-response and high sensitivity gas sensors based on SnO2 hollow spheres. *Thin Solid Films*, **2008**, 516, 7840-7843	2.2	58
88	Mechanically Durable and Flexible Thermoelectric Films from PEDOT:PSS/PVA/Bi0.5Sb1.5Te3 Nanocomposites. *Advanced Electronic Materials*, **2017**, 3, 1600554	6.4	57
87	Topochemical synthesis of cobalt oxide nanowire arrays for high performance binderless lithium ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 11867		53
86	Vinyl Ethylene Carbonate as an Effective SEI-Forming Additive in Carbonate-Based Electrolyte for Lithium-Metal Anodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 6118-6125	9.5	51
85	Preparation of a Ru-Nanoparticles/Defective-Graphene Composite as a Highly Efficient Arene-Hydrogenation Catalyst. *ChemCatChem*, **2012**, 4, 1938-1942	5.2	49
84	Achieving Ultrahigh-Rate and High-Safety Li Storage Based on Interconnected Tunnel Structure in Micro-Size Niobium Tungsten Oxides. *Advanced Materials*, **2020**, 32, e1905295	24	47
83	Rational design of Au NiO hierarchical structures with enhanced rate performance for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 7023	13	47

82	Topochemical synthesis of cobalt oxide-based porous nanostructures for high-performance lithium-ion batteries. *Chemistry - A European Journal*, **2011**, 17, 1596-604	4.8	47
81	Boosting sodium-ion storage performance of MoSe2@C electrospinning nanofibers by embedding graphene nanosheets. *Journal of Alloys and Compounds*, **2017**, 727, 1280-1287	5.7	44
80	Extrinsic pseudocapacitve Li-ion storage of SnS anode via lithiation-induced structural optimization on cycling. *Journal of Power Sources*, **2017**, 366, 1-8	8.9	42
79	Topotactic Transformation Synthesis of 2D Ultrathin GeS Nanosheets toward High-Rate and High-Energy-Density Sodium-Ion Half/Full Batteries. *ACS Nano*, **2020**, 14, 531-540	16.7	41
78	FeO/SnSSe Hexagonal Nanoplates as Lithium-Ion Batteries Anode. *ACS Applied Materials & Interfaces*, **2018**, 10, 12722-12730	9.5	38
77	Nitrogen doped carbon nanotubes encapsulated MnO nanoparticles derived from metal coordination polymer towards high performance Lithium-ion Battery Anodes. *Electrochimica Acta*, **2016**, 187, 406-412	6.7	38
76	Facile synthesis of ZnWO4 nanowall arrays on Ni foam for high performance supercapacitors. *RSC Advances*, **2014**, 4, 4212-4217	3.7	38
75	Synthesis of highly aligned and ultralong coordination polymer nanowires and their calcination to porous manganese oxide nanostructures. *Journal of Materials Chemistry*, **2012**, 22, 4982		38
74	Highly Dispersive MoP Nanoparticles Anchored on Reduced Graphene Oxide Nanosheets for an Efficient Hydrogen Evolution Reaction Electrocatalyst. *ACS Applied Materials & Interfaces*, **2018**, 10, 26258-26263	9.5	37
73	Tufted NiCo2O4 Nanoneedles Grown on Carbon Nanofibers with advanced electrochemical property for Lithium Ion Batteries. *Electrochimica Acta*, **2016**, 222, 1878-1886	6.7	37
72	Coordination chemistry and antisolvent strategy to rare-earth solid solution colloidal spheres. *Journal of the American Chemical Society*, **2012**, 134, 19084-91	16.4	35
71	Low-temperature sensing and high sensitivity of ZnO nanoneedles due to small size effect. *Thin Solid Films*, **2009**, 517, 5931-5934	2.2	35
70	High-Voltage Zinc-Ion Batteries: Design Strategies and Challenges. *Advanced Functional Materials*, **2021**, 31, 2010213	15.6	35
69	Hollow LDH nanowires as excellent adsorbents for organic dye. *Journal of Alloys and Compounds*, **2016**, 687, 499-505	5.7	34
68	Mesoporous Niobium Oxide Spheres as an Effective Catalyst for the Transamidation of Primary Amides with Amines. *Advanced Synthesis and Catalysis*, **2014**, 356, 475-484	5.6	34
67	Simple fabrication of a sensitive hydrogen peroxide biosensor using enzymes immobilized in processable polyaniline nanofibers/chitosan film. *Materials Science and Engineering C*, **2009**, 29, 1794-1797	8.3	34
66	Mixed-Valence Copper Selenide as an Anode for Ultralong Lifespan Rocking-Chair Zn-Ion Batteries: An Insight into its Intercalation/Extraction Kinetics and Charge Storage Mechanism. *Advanced Functional Materials*, **2021**, 31, 2005092	15.6	34
65	Compressed hydrogen gas-induced synthesis of Au□Pt core□shell nanoparticle chains towards high-performance catalysts for Li□O2 batteries. *Journal of Materials Chemistry A*, **2014**, 2, 10676-10681	13	32

64	A Low-Temperature Sodium-Ion Full Battery: Superb Kinetics and Cycling Stability. *Advanced Functional Materials*, **2021**, 31, 2009458	15.6	32
63	Tuning the electronic structure of layered vanadium pentoxide by pre-intercalation of potassium ions for superior room/low-temperature aqueous zinc-ion batteries. *Nanoscale*, **2021**, 13, 2399-2407	7.7	32
62	Carbon intercalated porous NaTi2(PO4)3 spheres as high-rate and ultralong-life anodes for rechargeable sodium-ion batteries. *Materials Chemistry Frontiers*, **2017**, 1, 1435-1440	7.8	31
61	Rational-design of polyaniline cathode using proton doping strategy by graphene oxide for enhanced aqueous zinc-ion batteries. *Journal of Power Sources*, **2020**, 450, 227716	8.9	31
60	Ammonia gas detection based on polyaniline nanofibers coated on interdigitated array electrodes. *Journal of Materials Science: Materials in Electronics*, **2011**, 22, 418-421	2.1	30
59	Redistributing Zn-ion flux by interlayer ion channels in Mg-Al layered double hydroxide-based artificial solid electrolyte interface for ultra-stable and dendrite-free Zn metal anodes. *Energy Storage Materials*, **2021**, 41, 230-239	19.4	30
58	Interlayer Engineering of Molybdenum Trioxide toward High-Capacity and Stable Sodium Ion Half/Full Batteries. *Advanced Functional Materials*, **2020**, 30, 2001708	15.6	29
57	Electrocatalytic activity of horseradish peroxidase/chitosan/carbon microsphere microbiocomposites to hydrogen peroxide. *Talanta*, **2008**, 77, 37-41	6.2	28
56	In Situ Carbon Insertion in Laminated Molybdenum Dioxide by Interlayer Engineering Toward Ultrastable Rocking-Chair Zinc-Ion Batteries. *Advanced Functional Materials*, **2021**, 31, 2102827	15.6	28
55	Antisolvent Precipitation for the Synthesis of Monodisperse Mesoporous Niobium Oxide Spheres as Highly Effective Solid Acid Catalysts. *ChemCatChem*, **2012**, 4, 1675-1682	5.2	25
54	Sulfated mesoporous Au/TiO2 spheres as a highly active and stable solid acid catalyst. *Journal of Materials Chemistry*, **2012**, 22, 13216		23
53	Intrinsic conductivity optimization of bi-metallic nickel cobalt selenides toward superior-rate Na-ion storage. *Materials Chemistry Frontiers*, **2017**, 1, 2656-2663	7.8	22
52	Amorphous Bimetallic Oxides Fe-V-O with Tunable Compositions toward Rechargeable Zn-Ion Batteries with Excellent Low-Temperature Performance. *ACS Applied Materials & Interfaces*, **2020**, 12, 11753-11760	9.5	21
51	Recent advances of transition metal based bifunctional electrocatalysts for rechargeable zinc-air batteries. *Journal of Power Sources*, **2020**, 477, 228696	8.9	21
50	Pristine graphene for advanced electrochemical energy applications. *Journal of Power Sources*, **2019**, 437, 226899	8.9	20
49	3D-Printed Microelectrodes with a Developed Conductive Network and Hierarchical Pores toward High Areal Capacity for Microbatteries. *Advanced Materials Technologies*, **2018**, 4, 1800402	6.8	18
48	Optimization of the Hydrogen-Adsorption Free Energy of Ru-Based Catalysts towards High-Efficiency Hydrogen Evolution Reaction at all pH. *Chemistry - A European Journal*, **2019**, 25, 8579-8584	4.8	17
47	High capacity and excellent cycling stability of branched cobalt oxide nanowires as Li-insertion materials. *Applied Physics Letters*, **2010**, 97, 043501	3.4	17

46	A 1D□D interconnected □MnO2 nanowires network as high-performance and high energy efficiency cathode material for aqueous zinc-ion batteries. *Electrochimica Acta*, **2021**, 370, 137740	6.7	17
45	Three-Dimensional Graphene/Ag Aerogel for Durable and Stable Li Metal Anodes in Carbonate-Based Electrolytes. *Chemistry - A European Journal*, **2019**, 25, 5036-5042	4.8	15
44	Seed-free, aqueous synthesis of gold nanowires. *CrystEngComm*, **2012**, 14, 7549	3.3	15
43	Transition metal phosphides: new generation cathode host/separator modifier for Li□ batteries. *Journal of Materials Chemistry A*, **2021**, 9, 7458-7480	13	15
42	Green synthesis of highly reduced graphene oxide by compressed hydrogen gas towards energy storage devices. *Journal of Power Sources*, **2015**, 274, 310-317	8.9	14
41	Monodisperse mesoporous Ta2O5 colloidal spheres as a highly effective photocatalyst for hydrogen production. *International Journal of Hydrogen Energy*, **2016**, 41, 17225-17232	6.7	14
40	Interlayer Chemistry of Layered Electrode Materials in Energy Storage Devices. *Advanced Functional Materials*, **2021**, 31, 2007358	15.6	14
39	Integration of Localized Electric-Field Redistribution and Interfacial Tin Nanocoating of Lithium Microparticles toward Long-Life Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 650-659	9.5	13
38	Double-Layer N,S-Codoped Carbon Protection of MnS Nanoparticles Enabling Ultralong-Life and High-Rate Lithium Ion Storage. *ACS Applied Energy Materials*, **2018**, 1, 4867-4873	6.1	12
37	Small quantities of cobalt deposited on tin oxide as anode material to improve performance of lithium-ion batteries. *Nanoscale*, **2012**, 4, 5731-7	7.7	12
36	Layered zirconium phosphate-based artificial solid electrolyte interface with zinc ion channels towards dendrite-free Zn metal anodes. *Chemical Engineering Journal*, **2022**, 432, 134227	14.7	12
35	Post-Lithium-Ion Battery Era: Recent Advances in Rechargeable Potassium-Ion Batteries. *Chemistry - A European Journal*, **2021**, 27, 512-536	4.8	12
34	Facile preparation of carbon wrapped copper telluride nanowires as high performance anodes for sodium and lithium ion batteries. *Nanotechnology*, **2017**, 28, 145403	3.4	11
33	Phosphorus-Doping-Induced Surface Vacancies of 3D Na Ti O Nanowire Arrays Enabling High-Rate and Long-Life Sodium Storage. *Chemistry - A European Journal*, **2019**, 25, 14881-14889	4.8	11
32	Cobalt (hcp) nanofibers with pine-tree-leaf hierarchical superstructures. *Journal of Materials Chemistry*, **2010**, 20, 9187		10
31	Spontaneous Strain Buffer Enables Superior Cycling Stability in Single-Crystal Nickel-Rich NCM Cathode. *Nano Letters*, **2021**, 21, 9997-10005	11.5	10
30	Deep Insight into Electrochemical Kinetics of Cowpea-Like Li3VO4@C Nanowires as High-Rate Anode Materials for Lithium-Ion Batteries. *ChemElectroChem*, **2019**, 6, 3920-3927	4.3	9
29	In situ construction of active interfaces towards improved high-rate performance of CoSe2. *Journal of Materials Chemistry A*, **2021**, 9, 14582-14592	13	9

28	An optimal task management and control scheme for military operations with dynamic game strategy. *Aerospace Science and Technology*, **2021**, 115, 106815	4.9	8
27	Precursor-Based Synthesis of Porous Colloidal Particles towards Highly Efficient Catalysts. *Chemistry - A European Journal*, **2018**, 24, 10280-10290	4.8	7
26	Enable commercial Zinc powders for dendrite-free Zinc anode with improved utilization rate by pristine graphene hybridization. *Energy Storage Materials*, **2022**, 45, 465-473	19.4	7
25	Two-Dimensional Germanium Sulfide Nanosheets as an Ultra-Stable and High Capacity Anode for Lithium Ion Batteries. *Chemistry - A European Journal*, **2020**, 26, 6554-6560	4.8	7
24	Porous Ru/RuOx/LDH as highly active heterogeneous catalysts for the aerobic oxidation of alcohols. *New Journal of Chemistry*, **2016**, 40, 8364-8370	3.6	7
23	Regulating the Electrolyte Solvation Structure Enables Ultralong Lifespan Vanadium-Based Cathodes with Excellent Low-Temperature Performance. *Advanced Functional Materials*,2111714	15.6	6
22	Synchronous Manipulation of Ion and Electron Transfer in Wadsley-Roth Phase Ti-Nb Oxides for Fast-Charging Lithium-Ion Batteries.. *Advanced Science*, **2021**, e2104530	13.6	6
21	Dual-Redox Sites Guarantee High-Capacity Sodium Storage in Two-Dimension Conjugated Metal□rganic Frameworks. *Advanced Functional Materials*,2112072	15.6	6
20	Ten Thousand-Cycle Ultrafast Energy Storage of Wadsley-Roth Phase Fe-Nb Oxides with a Desolvation Promoting Interfacial Layer. *Nano Letters*, **2021**, 21, 9675-9683	11.5	5
19	Suppressing vanadium dissolution of VO polyethylene glycol intercalation towards ultralong lifetime room/low-temperature zinc-ion batteries. *Nanoscale*, **2021**, 13, 17040-17048	7.7	5
18	Enabling Multi-Chemisorption Sites on Carbon Nanofibers Cathodes by an In-situ Exfoliation Strategy for High-Performance Zn-Ion Hybrid Capacitors.. *Nano-Micro Letters*, **2022**, 14, 106	19.5	5
17	Design Strategies of Si/C Composite Anode for Lithium-Ion Batteries. *Chemistry - A European Journal*, **2021**, 27, 12237-12256	4.8	4
16	Component-Customizable Porous Rare-Earth-Based Colloidal Spheres towards Highly Effective Catalysts and Bioimaging Applications. *Chemistry - A European Journal*, **2017**, 23, 16242-16248	4.8	3
15	Fast Response Amperometric Biosensor for H2O2 Detection Based on Horseradish-Peroxidase/Titania-Nanowires/Chitosan Modified Glassy Carbon Electrode. *Sensor Letters*, **2009**, 7, 543-549	0.9	3
14	Nb-based compounds for rapid lithium-ion storage and diffusion. *Journal of Power Sources*, **2021**, 496, 229840	8.9	3
13	Lithium-Ion Batteries: Nanostructured Li3V2(PO4)3 Cathodes (Small 21/2018). *Small*, **2018**, 14, 1870095	11	3
12	Interfacial Protection Engineering of Sodium Nanoparticles toward Dendrite-Free and Long-Life Sodium Metal Battery. *Small*, **2021**, 17, e2102400	11	3
11	Activating the Stepwise Intercalation-Conversion Reaction of Layered Copper Sulfide toward Extremely High Capacity Zinc-Metal-Free Anodes for Rocking-Chair Zinc-Ion Batteries.. *ACS Applied Materials & Interfaces*, **2021**,	9.5	3

10	Enhanced catalytic activity of monodispersed porous AlO colloidal spheres with NiMo for simultaneous hydrodesulfurization and hydrogenation.. *RSC Advances*, **2018**, 8, 18059-18066	3.7	2
9	Cation mixing in Wadsley-Roth phase anode of lithium-ion battery improves cycling stability and fast Li+ storage. *Applied Physics Reviews*, **2021**, 8, 031404	17.3	2
8	Unblocking Oxygen Charge Compensation for Stabilized High-Voltage Structure in P2-Type Sodium-Ion Cathode.. *Advanced Science*, **2022**, e2200498	13.6	2
7	General Synthetic Protocol for the Synthesis of Ru-X (X=Rh, Pd, Ag) Heterogeneous Ultrathin Nanowires with a Tunable Composition. *ChemCatChem*, **2017**, 9, 347-353	5.2	1
6	Ultrahigh Rate and Ultralong Life Span Sodium Storage of FePS Enabled by the Space Confinement Effect of Layered Expanded Graphite. *ACS Applied Materials & Interfaces*, **2021**, 13, 55254-55262	9.5	1
5	The Efficient K Ion Storage of M P O /C (M=Fe, Co, Ni) Anode Derived from Organic-Inorganic Phosphate Precursors. *Chemistry - A European Journal*, **2021**, 27, 9031-9037	4.8	1
4	Uniform Li Plating/Stripping within Ni Macropore Arrays Enabled by Regulated Electric Field Distribution for Ultra-Stable Li-Metal Anodes. *IScience*, **2020**, 23, 101089	6.1	1
3	Manipulating the Electronic Structure of Graphite Intercalation Compounds for Boosting the Bifunctional Oxygen Catalytic Performance.. *Small*, **2022**, e2107667	11	0
2	In-Situ Activated NiFePBA-FeOOH Electrocatalyst for Oxygen Evolution Reaction and Zinc-Air Battery. *ChemistrySelect*, **2021**, 6, 3683-3691	1.8	0
1	NASICON Electrodes: A Low-Temperature Sodium-Ion Full Battery: Superb Kinetics and Cycling Stability (Adv. Funct. Mater. 11/2021). *Advanced Functional Materials*, **2021**, 31, 2170070	15.6	