

Changshin Jo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70 papers	4,341 citations	35 h-index	65 g-index
75 ext. papers	5,053 ext. citations	11.1 avg, IF	5.84 L-index

#	Paper	IF	Citations
70	Nickel fluoride (NiF ₂)/porous carbon nanocomposite synthesized via ammonium fluoride (NH ₄ F) treatment for lithium-ion battery cathode applications. <i>Journal of Power Sources</i> , 2022 , 521, 230935	8.9	2
69	A review on current collector coating methods for next-generation batteries. <i>Chemical Engineering Journal</i> , 2022 , 446, 136860	14.7	0
68	In situ Raman investigation of resting thermal effects on gas emission in charged commercial 18650 lithium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 96, 339-344	6.3	4
67	Recent advances in the synthesis of mesoporous materials and their application to lithium-ion batteries and hybrid supercapacitors. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 227-247	2.8	10
66	A biopolymer-based functional separator for stable Li metal batteries with an additive-free commercial electrolyte. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7774-7781	13	7
65	Biomass-Derived P, N Self-Doped Hard Carbon as Bifunctional Oxygen Electrocatalyst and Anode Material for Seawater Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2010882	15.6	16
64	The mechanical and electrochemical properties of polyaniline-coated carbon nanotube mat. <i>Journal of Energy Storage</i> , 2021 , 41, 102757	7.8	1
63	Reliable protocols for calculating the specific energy and energy density of Li-Ion batteries. <i>Materials Today Energy</i> , 2021 , 21, 100838	7	2
62	Synthesis of Sodium Cobalt Fluoride/Reduced Graphene Oxide (NaCoF/rGO) Nanocomposites and Investigation of Their Electrochemical Properties as Cathodes for Li-Ion Batteries. <i>Materials</i> , 2021 , 14,	3.5	6
61	Mesoporous carbon host material for stable lithium metal anode. <i>Nanoscale</i> , 2020 , 12, 11818-11824	7.7	28
60	Morphological Control of Nanostructured VO by Deep Eutectic Solvents. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18803-18812	9.5	10
59	Photo-Rechargeable Zinc-Ion Capacitor Using 2D Graphitic Carbon Nitride. <i>Nano Letters</i> , 2020 , 20, 5967-5974	5.74	50
58	Simultaneous Suppression of Shuttle Effect and Lithium Dendrite Growth by Lightweight Bifunctional Separator for LiB Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2643-2652	6.1	16
57	A small-strain niobium nitride anode with ordered mesopores for ultra-stable potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3119-3127	13	19
56	Plasma production of nanomaterials for energy storage: continuous gas-phase synthesis of metal oxide CNT materials via a microwave plasma. <i>Nanoscale</i> , 2020 , 12, 5196-5208	7.7	6
55	Continuous-Flow Synthesis of Carbon-Coated Silicon/Iron Silicide Secondary Particles for Li-Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 698-707	16.7	31
54	A Review of Functional Separators for Lithium Metal Battery Applications. <i>Materials</i> , 2020 , 13,	3.5	27

53	A review on recent approaches for designing the SEI layer on sodium metal anodes. <i>Materials Advances</i> , 2020 , 1, 3143-3166	3.3	10
52	High energy density anodes using hybrid Li intercalation and plating mechanisms on natural graphite. <i>Energy and Environmental Science</i> , 2020 , 13, 3723-3731	35.4	21
51	Bicontinuous phase separation of lithium-ion battery electrodes for ultrahigh areal loading. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21155-21161	11.5	17
50	Carbon dioxide to solid carbon at the surface of iron nanoparticle: Hollow nanocarbons for sodium ion battery anode application. <i>Journal of CO2 Utilization</i> , 2019 , 34, 588-595	7.6	3
49	A Comprehensive Review of Materials with Catalytic Effects in Li-S Batteries: Enhanced Redox Kinetics. <i>Angewandte Chemie</i> , 2019 , 131, 18920-18931	3.6	49
48	A Comprehensive Review of Materials with Catalytic Effects in Li-S Batteries: Enhanced Redox Kinetics. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18746-18757	16.4	221
47	Amorphous Tin Oxide Nanohelix Structure Based Electrode for Highly Reversible Na-Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 6513-6521	16.7	22
46	Approaching Ultrastable High-Rate Li-S Batteries through Hierarchically Porous Titanium Nitride Synthesized by Multiscale Phase Separation. <i>Advanced Materials</i> , 2019 , 31, e1806547	24	105
45	Self-Assembly of Hybrid Nanorods for Enhanced Volumetric Performance of Nanoparticles in Li-Ion Batteries. <i>Nano Letters</i> , 2019 , 19, 228-234	11.5	7
44	Simple modification with amine- and hydroxyl- group rich biopolymer on ordered mesoporous carbon/sulfur composite for lithium-sulfur batteries. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 579-586	2.8	32
43	Multiscale Phase Separations for Hierarchically Ordered Macro/Mesostructured Metal Oxides. <i>Advanced Materials</i> , 2018 , 30, 1703829	24	45
42	Mesoporous tungsten oxynitride as electrocatalyst for promoting redox reactions of vanadium redox couple and performance of vanadium redox flow battery. <i>Applied Surface Science</i> , 2018 , 429, 187-195	6.7	46
41	Cancer Therapy: Programmed Nanoparticle-Loaded Nanoparticles for Deep-Penetrating 3D Cancer Therapy (Adv. Mater. 29/2018). <i>Advanced Materials</i> , 2018 , 30, 1870213	24	11
40	Synergistic Effect of Molecular-Type Electrocatalysts with Ultrahigh Pore Volume Carbon Microspheres for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2018 , 12, 6013-6022	16.7	61
39	Programmed Nanoparticle-Loaded Nanoparticles for Deep-Penetrating 3D Cancer Therapy. <i>Advanced Materials</i> , 2018 , 30, e1707557	24	56
38	Ordered Mesoporous Titanium Nitride as a Promising Carbon-Free Cathode for Aprotic Lithium-Oxygen Batteries. <i>ACS Nano</i> , 2017 , 11, 1736-1746	16.7	104
37	Enzyme-Driven Hasselback-Like DNA-Based Inorganic Superstructures. <i>Advanced Functional Materials</i> , 2017 , 27, 1704213	15.6	22
36	Rational design of Li3VO4@carbon core-shell nanoparticles as Li-ion hybrid supercapacitor anode materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20969-20977	13	26

35	Solvothermal synthesis of sodium cobalt fluoride (NaCoF ₃) nanoparticle clusters. <i>Materials Letters</i> , 2017 , 207, 89-92	3.3	6
34	Tracking the confinement effect of highly dispersive carbon in a tungsten oxide/carbon nanocomposite: conversion anode materials in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24782-24789	13	14
33	General Synthesis of N-Doped Macroporous Graphene-Encapsulated Mesoporous Metal Oxides and Their Application as New Anode Materials for Sodium-Ion Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2017 , 27, 1603921	15.6	106
32	Ammonium Fluoride Mediated Synthesis of Anhydrous Metal Fluoride-Mesoporous Carbon Nanocomposites for High-Performance Lithium Ion Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35180-35190	9.5	49
31	High-Performance Sodium-Ion Hybrid Supercapacitor Based on Nb ₂ O ₅ @Carbon Core-Shell Nanoparticles and Reduced Graphene Oxide Nanocomposites. <i>Advanced Functional Materials</i> , 2016 , 26, 3711-3719	15.6	312
30	MoO ₂ nanocrystals interconnected on mesocellular carbon foam as a powerful catalyst for vanadium redox flow battery. <i>RSC Advances</i> , 2016 , 6, 17574-17582	3.7	48
29	A mini review of designed mesoporous materials for energy-storage applications: from electric double-layer capacitors to hybrid supercapacitors. <i>Nanoscale</i> , 2016 , 8, 7827-33	7.7	136
28	Facile conversion of activated carbon to battery anode material using microwave graphitization. <i>Carbon</i> , 2016 , 104, 106-111	10.4	35
27	Ordered-mesoporous Nb ₂ O ₅ /carbon composite as a sodium insertion material. <i>Nano Energy</i> , 2015 , 16, 62-70	17.1	104
26	Ultrafast synthesis of MoS ₂ or WS ₂ -reduced graphene oxide composites via hybrid microwave annealing for anode materials of lithium ion batteries. <i>Journal of Power Sources</i> , 2015 , 295, 228-234	8.9	66
25	Facile Synthesis of Nb ₂ O ₅ @Carbon Core-Shell Nanocrystals with Controlled Crystalline Structure for High-Power Anodes in Hybrid Supercapacitors. <i>ACS Nano</i> , 2015 , 9, 7497-505	16.7	340
24	Mesoporous Ge/GeO ₂ /Carbon Lithium-Ion Battery Anodes with High Capacity and High Reversibility. <i>ACS Nano</i> , 2015 , 9, 5299-309	16.7	141
23	Reversibility of Lithium-Ion Air Batteries Using Lithium Intercalation Compounds as Anodes. <i>ChemPlusChem</i> , 2015 , 80, 349-353	2.8	5
22	Effect of Mesoporous Structured Cathode Materials on Charging Potentials and Rate Capability of Lithium-Oxygen Batteries. <i>ChemSusChem</i> , 2015 , 8, 3146-52	8.3	16
21	Structural Effect on Electrochemical Performance of Ordered Porous Carbon Electrodes for Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11748-54	9.5	51
20	Direct access to hierarchically porous inorganic oxide materials with three-dimensionally interconnected networks. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16066-72	16.4	98
19	Simple fabrication of flexible electrodes with high metal-oxide content: electrospun reduced tungsten oxide/carbon nanofibers for lithium ion battery applications. <i>Nanoscale</i> , 2014 , 6, 10147-55	7.7	71
18	Reverse micelle synthesis of colloidal nickel-manganese layered double hydroxide nanosheets and their pseudocapacitive properties. <i>Chemistry - A European Journal</i> , 2014 , 20, 14880-4	4.8	67

17	Advanced hybrid supercapacitor based on a mesoporous niobium pentoxide/carbon as high-performance anode. <i>ACS Nano</i> , 2014 , 8, 8968-78	16.7	339
16	Block Copolymer Directed Ordered Mesostructured TiNb ₂ O ₇ Multimetallic Oxide Constructed of Nanocrystals as High Power Li-Ion Battery Anodes. <i>Chemistry of Materials</i> , 2014 , 26, 3508-3514	9.6	137
15	Improvement of desolvation and resilience of alginate binders for Si-based anodes in a lithium ion battery by calcium-mediated cross-linking. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25628-35	3.6	73
14	Synthesis of hierarchical linearly assembled graphitic carbon nanoparticles via catalytic graphitization in SBA-15. <i>Carbon</i> , 2014 , 75, 95-103	10.4	26
13	TiO ₂ nanodisks designed for Li-ion batteries: a novel strategy for obtaining an ultrathin and high surface area anode material at the ice interface. <i>Energy and Environmental Science</i> , 2013 , 6, 2932	35.4	90
12	Simple synthesis of hierarchically structured partially graphitized carbon by emulsion/block-copolymer co-template method for high power supercapacitors. <i>Carbon</i> , 2013 , 64, 391-402	19.4	81
11	Block-Copolymer-Assisted One-Pot Synthesis of Ordered Mesoporous WO ₃ /Carbon Nanocomposites as High-Rate-Performance Electrodes for Pseudocapacitors. <i>Advanced Functional Materials</i> , 2013 , 23, 3747-3754	15.6	126
10	Ordered mesoporous tungsten suboxide counter electrode for highly efficient iodine-free electrolyte-based dye-sensitized solar cells. <i>ChemSusChem</i> , 2013 , 6, 299-307	8.3	25
9	Functional mesoporous materials for energy applications: solar cells, fuel cells, and batteries. <i>Nanoscale</i> , 2013 , 5, 4584-605	7.7	100
8	One-pot synthesis of tin-embedded carbon/silica nanocomposites for anode materials in lithium-ion batteries. <i>ACS Nano</i> , 2013 , 7, 1036-44	16.7	121
7	Development of novel mesoporous TiO ₂ /SnO ₂ nanocomposites and their application to anode materials in lithium ion secondary batteries. <i>Microporous and Mesoporous Materials</i> , 2012 , 151, 172-179	5.3	26
6	Nano-graphite functionalized mesocellular carbon foam with enhanced intra-penetrating electrical percolation networks for high performance electrochemical energy storage electrode materials. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5695-704	3.6	21
5	Soft-Template Simple Synthesis of Ordered Mesoporous Titanium Nitride-Carbon Nanocomposite for High Performance Dye-Sensitized Solar Cell Counter Electrodes. <i>Chemistry of Materials</i> , 2012 , 24, 1575-1582	9.6	98
4	An ordered nanocomposite of organic radical polymer and mesocellular carbon foam as cathode material in lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1453-1458		42
3	A novel mesoporous carbon-silica-titania nanocomposite as a high performance anode material in lithium ion batteries. <i>Chemical Communications</i> , 2011 , 47, 4944-6	5.8	37
2	Investigation of Pseudocapacitive Charge-Storage Behavior in Highly Conductive Ordered Mesoporous Tungsten Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11880-11886	3.8	91
1	Development of a high-performance anode for lithium ion batteries using novel ordered mesoporous tungsten oxide materials with high electrical conductivity. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11060-6	3.6	125