

Chanhoon Kim

List of Publications by Year in descending order

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44
papers

2,220
citations

218677

26
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254184

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44
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3572
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable biopolymeric hydrogel interphase for dendrite-free aqueous zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 133532.	12.7	25
2	Template-assisted synthesis of single-atom catalysts supported on highly crystalline vanadium pentoxide for stable oxygen evolution. <i>Chem Catalysis</i> , 2022, 2, 1191-1210.	6.1	8
3	An angstrom-level d-spacing control of graphite oxide using organofillers for high-rate lithium storage. <i>CheM</i> , 2022, 8, 2393-2409.	11.7	27
4	Scalable top-down synthesis of functional carbon nanosheets by aronia fruit powder for Li ⁺ and K ⁺ storage. <i>Electrochimica Acta</i> , 2021, 377, 138068.	5.2	4
5	Insight into the Critical Role of Surface Hydrophilicity for Dendrite-Free Zinc Metal Anodes. <i>ACS Energy Letters</i> , 2021, 6, 3078-3085.	17.4	121
6	Synergistic Interactions of Different Electroactive Components for Superior Lithium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 587-596.	8.0	13
7	Stable and High-Capacity Si Electrodes with Free-Standing Architecture for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 208-217.	5.1	9
8	Colorimetric Dye-Loaded Nanofiber Yarn: Eye-Readable and Weavable Gas Sensing Platform. <i>ACS Nano</i> , 2020, 14, 16907-16918.	14.6	74
9	Gallium Nitride Nanoparticles Embedded in a Carbon Nanofiber Anode for Ultralong-Cycle-Life Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 44263-44269.	8.0	19
10	Unveiling the Origin of Superior Electrochemical Performance in Polycrystalline Dense SnO ₂ Nanospheres as Anodes for Lithium-ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 2004-2012.	5.1	14
11	High-rate formation cycle of Co ₃ O ₄ nanoparticle for superior electrochemical performance in lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 295, 7-13.	5.2	32
12	Metal nanotrough embedded colorless polyimide films: transparent conducting electrodes with exceptional flexibility and high conductivity. <i>Nanoscale</i> , 2018, 10, 7927-7932.	5.6	12
13	Rational design of protective In ₂ O ₃ layer-coated carbon nanopaper membrane: Toward stable cathode for long-cycle Li-O ₂ batteries. <i>Nano Energy</i> , 2018, 46, 193-202.	16.0	58
14	Ag-coated one-dimensional orthorhombic Nb ₂ O ₅ fibers as high performance electrodes for lithium storage. <i>Electrochimica Acta</i> , 2018, 269, 388-396.	5.2	27
15	Facile preparation of efficient electrocatalysts for oxygen reduction reaction: One-dimensional meso/macroporous cobalt and nitrogen Co-doped carbon nanofibers. <i>Journal of Power Sources</i> , 2018, 380, 174-184.	7.8	48
16	Brush-Like Cobalt Nitride Anchored Carbon Nanofiber Membrane: Current Collector-Catalyst Integrated Cathode for Long Cycle Li-O ₂ Batteries. <i>ACS Nano</i> , 2018, 12, 128-139.	14.6	230
17	Porous SnO ₂ -CuO nanotubes for highly reversible lithium storage. <i>Journal of Power Sources</i> , 2018, 373, 11-19.	7.8	34
18	High-Power Aqueous Zinc-Ion Batteries for Customized Electronic Devices. <i>ACS Nano</i> , 2018, 12, 11838-11846.	14.6	158

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19	Ultrastable Graphene-Encapsulated 3 nm Nanoparticles by In Situ Chemical Vapor Deposition. <i>Advanced Materials</i> , 2018, 30, e1805023.	21.0	24
20	Stress-Tolerant Nanoporous Germanium Nanofibers for Long Cycle Life Lithium Storage with High Structural Stability. <i>ACS Nano</i> , 2018, 12, 8169-8176.	14.6	42
21	Synergistic Coupling of Metallic Cobalt Nitride Nanofibers and IrO ₂ Nanoparticle Catalysts for Stable Oxygen Evolution. <i>Chemistry of Materials</i> , 2018, 30, 5941-5950.	6.7	57
22	Incorporation of amorphous TiO ₂ into one-dimensional SnO ₂ nanostructures as superior anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 400, 485-492.	7.8	34
23	Feasible Defect Engineering by Employing Metal Organic Framework Templates into One-Dimensional Metal Oxides for Battery Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20540-20549.	8.0	46
24	Fast, Scalable Synthesis of Micronized Ge ₃ N ₄ @C with a High Tap Density for Excellent Lithium Storage. <i>Advanced Functional Materials</i> , 2017, 27, 1605975.	14.9	47
25	Mesoporous orthorhombic Nb ₂ O ₅ nanofibers as pseudocapacitive electrodes with ultra-stable Li storage characteristics. <i>Journal of Power Sources</i> , 2017, 360, 434-442.	7.8	68
26	Rational Design of 1-D Co ₃ O ₄ Nanofibers@Low content Graphene Composite Anode for High Performance Li-Ion Batteries. <i>Scientific Reports</i> , 2017, 7, 45105.	3.3	49
27	Formation of a Surficial Bifunctional Nanolayer on Nb ₂ O ₅ for Ultrastable Electrodes for Lithium-Ion Battery. <i>Small</i> , 2017, 13, 1603610.	10.0	74
28	Cu Microbelt Network Embedded in Colorless Polyimide Substrate: Flexible Heater Platform with High Optical Transparency and Superior Mechanical Stability. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39650-39656.	8.0	29
29	MOF derived ZnCo ₂ O ₄ porous hollow spheres functionalized with Ag nanoparticles for a long-cycle and high-capacity lithium ion battery anode. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22717-22725.	10.3	69
30	Direct Realization of Complete Conversion and Agglomeration Dynamics of SnO ₂ Nanoparticles in Liquid Electrolyte. <i>ACS Omega</i> , 2017, 2, 6329-6336.	3.5	26
31	Ultras-small titanium oxide/titanium oxynitride composite nanoparticle-embedded carbon nanofiber mats as high-capacity and free-standing electrodes for lithium sulfur batteries. <i>RSC Advances</i> , 2017, 7, 44804-44808.	3.6	11
32	Revisiting on the effect and role of TiO ₂ layer thickness on SnO ₂ for enhanced electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 258, 1140-1148.	5.2	19
33	Real Time Observation of Initial Conversion Reaction of Co ₃ O ₄ Nanoparticles Using Graphene Liquid Cell Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2017, 23, 1968-1969.	0.4	0
34	In Situ High-Resolution Transmission Electron Microscopy (TEM) Observation of Sn Nanoparticles on SnO ₂ Nanotubes Under Lithiation. <i>Microscopy and Microanalysis</i> , 2017, 23, 1107-1115.	0.4	21
35	In Situ TEM Observation on the Agglomeration of Nanoparticles in the Interface of SnO ₂ . <i>Microscopy and Microanalysis</i> , 2017, 23, 2054-2055.	0.4	2
36	Dimensional Effects of MoS ₂ Nanoplates Embedded in Carbon Nanofibers for Bifunctional Li and Na Insertion and Conversion Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26758-26768.	8.0	62

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37	A High-Capacity and Long-Cycle-Life Lithium-Ion Battery Anode Architecture: Silver Nanoparticle-Decorated SnO ₂ /NiO Nanotubes. ACS Nano, 2016, 10, 11317-11326.	14.6	177
38	Rational design of Sn-based multicomponent anodes for high performance lithium-ion batteries: SnO ₂ @TiO ₂ @reduced graphene oxide nanotubes. RSC Advances, 2016, 6, 2920-2925.	3.6	43
39	A facile route for growth of CNTs on Si@hard carbon for conductive agent incorporating anodes for lithium-ion batteries. Nanoscale, 2015, 7, 11286-11290.	5.6	19
40	Agarose-biofunctionalized, dual-electrospun heteronanofiber mats: toward metal-ion chelating battery separator membranes. Journal of Materials Chemistry A, 2015, 3, 10687-10692.	10.3	43
41	Mass-scalable synthesis of 3D porous germanium-carbon composite particles as an ultra-high rate anode for lithium ion batteries. Energy and Environmental Science, 2015, 8, 3577-3588.	30.8	201
42	Multi-functionalities of natural polysaccharide for enhancing electrochemical performance of macroporous Si anodes. RSC Advances, 2014, 4, 3070-3074.	3.6	16
43	Multifunctional Molecular Design as an Efficient Polymeric Binder for Silicon Anodes in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2014, 6, 18001-18007.	8.0	88
44	Novel design of ultra-fast Si anodes for Li-ion batteries: crystalline Si@amorphous Si encapsulating hard carbon. Nanoscale, 2014, 6, 10604-10610.	5.6	40