

Chunjoong Kim

List of Publications by Year in descending order

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129
papers

6,275
citations

76326

40
h-index

71685

76
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131
all docs

131
docs citations

131
times ranked

9009
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional SnS ₂ Nanoplates with Extraordinary High Discharge Capacity for Lithium Ion Batteries. <i>Advanced Materials</i> , 2008, 20, 4269-4273.	21.0	521
2	Critical Size of a Nano SnO ₂ Electrode for Li-Secondary Battery. <i>Chemistry of Materials</i> , 2005, 17, 3297-3301.	6.7	517
3	Novel SnS ₂ -nanosheet anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2007, 167, 529-535.	7.8	310
4	Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance Li-S Battery. <i>Advanced Energy Materials</i> , 2017, 7, 1602567.	19.5	309
5	Ultrathin Lithium-Ion Conducting Coatings for Increased Interfacial Stability in High Voltage Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 3128-3134.	6.7	192
6	The Formation Mechanism of Fluorescent Metal Complexes at the Li ₄ Ni _{0.5} Mn _{1.5} O ₄ /Carbonate Ester Electrolyte Interface. <i>Journal of the American Chemical Society</i> , 2015, 137, 3533-3539.	13.7	182
7	Direct Observation of Reversible Magnesium Ion Intercalation into a Spinel Oxide Host. <i>Advanced Materials</i> , 2015, 27, 3377-3384.	21.0	178
8	Mechanism of Phase Propagation During Lithiation in Carbon-Free Li ₄ Ti ₅ O ₁₂ Battery Electrodes. <i>Advanced Functional Materials</i> , 2013, 23, 1214-1222.	14.9	140
9	A tailored oxide interface creates dense Pt single-atom catalysts with high catalytic activity. <i>Energy and Environmental Science</i> , 2020, 13, 1231-1239.	30.8	140
10	Monodisperse Sn Nanocrystals as a Platform for the Study of Mechanical Damage during Electrochemical Reactions with Li. <i>Nano Letters</i> , 2013, 13, 1800-1805.	9.1	134
11	The Importance of Confined Sulfur Nanodomains and Adjoining Electron Conductive Pathways in Subreaction Regimes of Li-S Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700074.	19.5	127
12	Copolymerization of Polythiophene and Sulfur To Improve the Electrochemical Performance in Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2015, 27, 7011-7017.	6.7	120
13	Comparison of Al ₂ O ₃ - and AlPO ₄ -coated LiCoO ₂ cathode materials for a Li-ion cell. <i>Journal of Power Sources</i> , 2005, 146, 58-64.	7.8	117
14	Elemental Sulfur and Molybdenum Disulfide Composites for Li-S Batteries with Long Cycle Life and High-Rate Capability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13437-13448.	8.0	108
15	Three-dimensional localization of nanoscale battery reactions using soft X-ray tomography. <i>Nature Communications</i> , 2018, 9, 921.	12.8	107
16	Graphene quantum dots: structural integrity and oxygen functional groups for high sulfur/sulfide utilization in lithium sulfur batteries. <i>NPG Asia Materials</i> , 2016, 8, e272-e272.	7.9	105
17	Hydroxyl-Quenching Effects on the Photoluminescence Properties of SnO ₂ :Eu ³⁺ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4164-4167.	3.1	101
18	Dependence on Crystal Size of the Nanoscale Chemical Phase Distribution and Fracture in Li ₄ FePO ₄ . <i>Nano Letters</i> , 2015, 15, 4282-4288.	9.1	99

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19	NO gas sensing kinetics at room temperature under UV light irradiation of In ₂ O ₃ nanostructures. Scientific Reports, 2016, 6, 35066.	3.3	99
20	Electrochemical performance of amorphous-silicon thin films for lithium rechargeable batteries. Journal of Power Sources, 2006, 155, 391-394.	7.8	97
21	Comparison of the Performance of LiNi _{1/2} Mn _{3/2} O ₄ with Different Microstructures. Journal of the Electrochemical Society, 2011, 158, A997.	2.9	81
22	Effective wrapping of graphene on individual Li ₄ Ti ₅ O ₁₂ grains for high-rate Li-ion batteries. Journal of Materials Chemistry A, 2014, 2, 2023-2027.	10.3	76
23	Synthesis and photoluminescence of Mn-doped zinc sulfide nanoparticles. Applied Physics Letters, 2007, 90, 101910.	3.3	70
24	Electrochemical Properties of Disordered-Carbon-Coated SnO ₂ Nanoparticles for Li Rechargeable Batteries. Electrochemical and Solid-State Letters, 2006, 9, A408.	2.2	68
25	Breathable Carbon-Free Electrode: Black TiO ₂ with Hierarchically Ordered Porous Structure for Stable Li-O ₂ Battery. Advanced Energy Materials, 2017, 7, 1700814.	19.5	65
26	Single-layer graphene-wrapped Li ₄ Ti ₅ O ₁₂ anode with superior lithium storage capability. Carbon, 2017, 114, 275-283.	10.3	59
27	UV-light-activated H ₂ S gas sensing by a TiO ₂ nanoparticulate thin film at room temperature. Journal of Alloys and Compounds, 2019, 778, 247-255.	5.5	57
28	Phase-Controlled Electrochemical Activity of Epitaxial Mg-Spinel Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 28438-28443.	8.0	56
29	Highly luminescent surface-passivated ZnS:Mn nanoparticles by a simple one-step synthesis. Applied Physics Letters, 2008, 93, .	3.3	53
30	Surface Chemistry Consequences of Mg-Based Coatings on LiNi _{0.5} Mn _{1.5} O ₄ Electrode Materials upon Operation at High Voltage. Journal of Physical Chemistry C, 2014, 118, 10596-10605.	3.1	53
31	The Effect of AlPO ₄ -Coating Layer on the Electrochemical Properties in LiCoO ₂ Thin Films. Journal of the Electrochemical Society, 2006, 153, A1773.	2.9	50
32	Combustion-mediated synthesis of hollow carbon nanospheres for high-performance cathode material in lithium-sulfur battery. Carbon, 2016, 103, 255-262.	10.3	47
33	Synthesis of layered layered xLi ₂ MnO ₃ ·(1-x)LiMO ₂ (M=Mn, Ni, Co) nanocomposite electrodes materials by mechanochemical process. Journal of Power Sources, 2012, 220, 422-429.	7.8	46
34	Conformal coating of TiO ₂ nanorods on a 3-D CNT scaffold by using a CNT film as a nanoreactor: a free-standing and binder-free Li-ion anode. Journal of Materials Chemistry A, 2014, 2, 2701.	10.3	46
35	Development of carbon-based cathodes for Li-air batteries: Present and future. Electronic Materials Letters, 2016, 12, 551-567.	2.2	45
36	Anion exchange and successive ionic layer adsorption and reaction-assisted coating of BiVO ₄ with Bi ₂ S ₃ to produce nanostructured photoanode for enhanced photoelectrochemical water splitting. Journal of Colloid and Interface Science, 2021, 585, 72-84.	9.4	44

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37	Nonequilibrium Pathways during Electrochemical Phase Transformations in Single Crystals Revealed by Dynamic Chemical Imaging at Nanoscale Resolution. <i>Advanced Energy Materials</i> , 2015, 5, 1402040.	19.5	42
38	Carbon-Free TiO ₂ Battery Electrodes Enabled by Morphological Control at the Nanoscale. <i>Advanced Energy Materials</i> , 2013, 3, 1286-1291.	19.5	41
39	Atomic defects during ordering transitions in LiNi _{0.5} Mn _{1.5} O ₄ and their relationship with electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8255-8262.	10.3	41
40	Investigation of chlorine-mediated microstructural evolution of CH ₃ NH ₃ PbI ₃ (Cl) grains for high optoelectronic responses. <i>Nano Energy</i> , 2016, 25, 91-99.	16.0	41
41	Insights on the delithiation/lithiation reactions of Li Mn _{0.8} Fe _{0.2} PO ₄ mesocrystals in Li ⁺ batteries by in situ techniques. <i>Nano Energy</i> , 2017, 39, 371-379.	16.0	41
42	Adsorption/desorption kinetics of nitric oxide on zinc oxide nano film sensor enhanced by light irradiation and gold-nanoparticles decoration. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 262-272.	7.8	41
43	Fe ₂ O ₃ hierarchical tubular structure decorated with cobalt phosphide (CoP) nanoparticles for efficient photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2021, 417, 129278.	12.7	41
44	Modification of Gold Catalysis with Aluminum Phosphate for Oxygen-Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3688-3692.	3.1	40
45	Effect of SILAR-anchored ZnFe ₂ O ₄ on the BiVO ₄ nanostructure: An attempt towards enhancing photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2021, 546, 149033.	6.1	39
46	Synthesis of layered layered 0.5Li ₂ MnO ₃ ·0.5LiCoO ₂ nanocomposite electrode materials by the mechanochemical process and first principles study. <i>Journal of Materials Chemistry</i> , 2012, 22, 25418.	6.7	36
47	Rb ₂ CO ₃ -decorated In ₂ O ₃ nanoparticles for the room-temperature detection of sub-ppm level NO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2020, 313, 128001.	7.8	36
48	Rational construction of S-doped FeOOH onto Fe ₂ O ₃ nanorods for enhanced water oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 749-758.	9.4	35
49	Electrochemical Reduction of a Spinel-Type Manganese Oxide Cathode in Aqueous Electrolytes with Ca ²⁺ or Zn ²⁺ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 4182-4188.	3.1	33
50	Carbon nanotube-metal oxide nanocomposite gas sensing mechanism assessed via NO ₂ adsorption on n-WO ₃ /p-MWCNT nanocomposites. <i>Ceramics International</i> , 2020, 46, 29233-29243.	4.8	33
51	Iron-phosphate-platinum-carbon nanocomposites for enhanced electrocatalytic stability. <i>Applied Physics Letters</i> , 2007, 91, 113101.	3.3	32
52	Reduced graphene oxide/carbon double-coated 3-D porous ZnO aggregates as high-performance Li-ion anode materials. <i>Nanoscale Research Letters</i> , 2015, 10, 204.	5.7	32
53	Deposition of zinc cobaltite nanoparticles onto bismuth vanadate for enhanced photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2021, 599, 453-466.	9.4	32
54	Conformal Polymeric Multilayer Coatings on Sulfur Cathodes via the Layer-by-Layer Deposition for High Capacity Retention in Li-S Batteries. <i>ACS Macro Letters</i> , 2016, 5, 471-475.	4.8	31

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55	Endogenous Dynamic Nuclear Polarization for Sensitivity Enhancement in Solid-State NMR of Electrode Materials. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7082-7090.	3.1	30
56	The effects of ruthenium-oxidation states on Ru dissolution in PtRu thin-film electrodes. <i>Journal of Materials Research</i> , 2009, 24, 2762-2766.	2.6	29
57	Optimization of photogenerated charge transport using type-II heterojunction structure of CoP/BiVO ₄ :WO ₃ for high efficient solar-driver water splitting. <i>Journal of Alloys and Compounds</i> , 2022, 899, 163292.	5.5	29
58	Nanostructured Platinum/Iron Phosphate Thin-Film Electrodes for Methanol Oxidation. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, E27.	2.2	28
59	The dependence of dielectric properties on the thickness of (Ba,Sr)TiO ₃ thin films. <i>Current Applied Physics</i> , 2007, 7, 168-171.	2.4	28
60	Synchrotron-based x-ray absorption spectroscopy for the electronic structure of Li _x Mn _{0.8} Fe _{0.2} PO ₄ mesocrystal in Li + batteries. <i>Nano Energy</i> , 2017, 31, 495-503.	16.0	28
61	The effect of nitrogen on the cycling performance in thin-film Si _{1-x} N _x anode. <i>Journal of Solid State Chemistry</i> , 2008, 181, 2139-2142.	2.9	26
62	Transport of photo-generated electrons and holes in TiO ₂ /CdS/CdSe core-shell nanorod structure toward high performance photoelectrochemical cell electrode. <i>Electrochimica Acta</i> , 2019, 295, 710-718.	5.2	26
63	Co ₃ O ₄ /reduced graphene oxide/BiVO ₄ nanorod as high performance photoanode for water oxidation. <i>Electrochimica Acta</i> , 2020, 364, 137283.	5.2	26
64	ZnTe-coated ZnO nanorods: Hydrogen sulfide nano-sensor purely controlled by pn junction. <i>Materials and Design</i> , 2020, 191, 108628.	7.0	25
65	Hole-supply-rate-controlled methanol-gas-sensing reaction over p-type Co ₃ O ₄ /single-walled carbon nanotube hybrid structures. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128956.	7.8	25
66	Multi-redox phenazine/non-oxidized graphene/cellulose nanohybrids as ultrathick cathodes for high-energy organic batteries. <i>Nano Research</i> , 2021, 14, 1382-1389.	10.4	24
67	Multivalent Electrochemistry of Spinel Mg _x Mn ₃ O ₄ Nanocrystals. <i>Chemistry of Materials</i> , 2018, 30, 1496-1504.	6.7	23
68	Electrochemical properties of tin phosphates with various mesopore ratios. <i>Journal of Power Sources</i> , 2007, 172, 908-912.	7.8	22
69	Nanostructured β -Bi ₂ O ₃ /PbS heterojunction as np-junction photoanode for enhanced photoelectrochemical performance. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159545.	5.5	22
70	Optimization strategy for CdSe@CdS core-shell nanorod structures toward high performance water splitting photoelectrodes. <i>Materials Research Bulletin</i> , 2020, 129, 110914.	5.2	22
71	Tailoring the Mesoscopic TiO ₂ Layer: Concomitant Parameters for Enabling High-Performance Perovskite Solar Cells. <i>Nanoscale Research Letters</i> , 2017, 12, 57.	5.7	21
72	Nitrogen-Doped Graphene Quantum Dots: Sulfiphilic Additives for the High-Performance Li-S Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 3518-3525.	5.1	21

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73	Nanostructural Effect of AlPO ₄ -Nanoparticle Coating on the Cycle-Life Performance in LiCoO ₂ Thin Films. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, A32.	2.2	20
74	Layered-Layered-Spinel Cathode Materials Prepared by a High-Energy Ball-Milling Process for Lithium-ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 363-370.	8.0	20
75	Three-Dimensional Hierarchical Structures of TiO ₂ /CdS Branched Core-Shell Nanorods as a High-Performance Photoelectrochemical Cell Electrode for Hydrogen Production. <i>Journal of the Electrochemical Society</i> , 2016, 163, H434-H439.	2.9	20
76	Synthesis of LiMn _{0.8} Fe _{0.2} PO ₄ Mesocrystals for High-Performance Li-Ion Cathode Materials. <i>Electrochimica Acta</i> , 2016, 216, 203-210.	5.2	19
77	Effect of Si(IV) substitution on electrochemical, magnetic and spectroscopic performance of nanosized LiMn ₂ xSi ₆ O ₄ . <i>Journal of Materials Chemistry A</i> , 2013, 1, 10857.	10.3	18
78	Stabilization of Battery Electrode/Electrolyte Interfaces Employing Nanocrystals with Passivating Epitaxial Shells. <i>Chemistry of Materials</i> , 2015, 27, 394-399.	6.7	17
79	A Hydrogen Sulfide Gas Sensor Based on Pd-Decorated ZnO Nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10351-10355.	0.9	17
80	Effect of Passivating Shells on the Chemistry and Electrode Properties of LiMn ₂ O ₄ Nanocrystal Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3823-3833.	8.0	17
81	The Effect of Al Substitution on the Chemical and Electrochemical Phase Stability of Orthorhombic LiMnO ₂ . <i>Journal of the Electrochemical Society</i> , 2013, 160, A46-A52.	2.9	16
82	Evaluation of graphene-wrapped LiFePO ₄ as novel cathode materials for Li-ion batteries. <i>RSC Advances</i> , 2016, 6, 105081-105086.	3.6	16
83	Highly Linear and Symmetric Weight Modification in HfO ₂ -Based Memristive Devices for High-Precision Weight Entries. <i>Advanced Electronic Materials</i> , 2020, 6, 2000434.	5.1	16
84	Fluorine-surface-modified tin-doped hematite nanorod array photoelectrodes with enhanced water oxidation activity. <i>Applied Surface Science</i> , 2021, 558, 149898.	6.1	16
85	Cooperative Conformational Change of a Single Organic Molecule for Ultrafast Rechargeable Batteries. <i>ACS Energy Letters</i> , 2021, 6, 1659-1669.	17.4	15
86	Sn Doping into Hematite Nanorods for High-Performance Photoelectrochemical Water Splitting. <i>Journal of the Electrochemical Society</i> , 2019, 166, H743-H749.	2.9	14
87	Energy diagram analysis of photoelectrochemical water splitting process. <i>Nano Energy</i> , 2019, 57, 660-669.	16.0	14
88	Enhanced carrier collection efficiency in hierarchical nano-electrode for a high-performance photoelectrochemical cell. <i>Journal of Power Sources</i> , 2016, 336, 367-375.	7.8	13
89	Incorporation of an Au-rGO Layer to Enhance the Photocatalytic Application of Optimized CdS Thin Film. <i>Journal of the Electrochemical Society</i> , 2019, 166, H3112-H3118.	2.9	13
90	Fully Erase-free Multi-Bit Operation in HfO ₂ -Based Resistive Switching Device. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8234-8241.	8.0	13

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91	Electrical, Structural, Optical, and Adhesive Characteristics of Aluminum-Doped Tin Oxide Thin Films for Transparent Flexible Thin-Film Transistor Applications. <i>Materials</i> , 2019, 12, 137.	2.9	13
92	Defect-Induced Gas-Sensing Properties of a Flexible SnS Sensor under UV Illumination at Room Temperature. <i>Sensors</i> , 2020, 20, 5701.	3.8	13
93	High-Voltage Cathode Materials for Lithium-Ion Batteries: Freeze-Dried LiMn _{0.8} Fe _{0.1} MO _{1.1} PO ₄ /C (M = Fe,) <i>TJ ETQq</i> 1.1 0.784314 rgBT 4.0 12	4.0	12
94	A Separated Receptor/Transducer Scheme as Strategy to Enhance the Gas Sensing Performance Using Hematite@Carbon Nanotube Composite. <i>Sensors</i> , 2019, 19, 3915.	3.8	12
95	Electrochemical stability in cerium-phosphate-coated LiCoO ₂ thin films. <i>Journal of Materials Research</i> , 2007, 22, 688-694.	2.6	11
96	Effects of iron-phosphate coating on Ru dissolution in the PtRu thin-film electrodes. <i>Journal of Materials Research</i> , 2009, 24, 140-144.	2.6	11
97	Efficient Si Nanowire Array Transfer via Bi-Layer Structure Formation Through Metal-Assisted Chemical Etching. <i>Advanced Functional Materials</i> , 2014, 24, 1949-1955.	14.9	11
98	pn-Heterojunction of the SWCNT/ZnO nanocomposite for temperature dependent reaction with hydrogen. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 582-591.	9.4	11
99	High Performance of a Polydopamine-Coated Graphite Anode with a Stable SEI Layer. <i>ACS Applied Energy Materials</i> , 2022, 5, 5610-5616.	5.1	11
100	Si-Based Flexible Memristive Systems Constructed Using Top-Down Methods. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3957-3961.	8.0	10
101	Visualization of the Phase Propagation within Carbon-Free Li ₄ Ti ₅ O ₁₂ Battery Electrodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29030-29038.	3.1	10
102	The effect of polymeric binders in the sulfur cathode on the cycling performance for lithium-sulfur batteries. <i>Chemical Communications</i> , 2019, 55, 14609-14612.	4.1	10
103	Solution Synthesis of Copper Microflowers. <i>Electronic Materials Letters</i> , 2009, 5, 201-204.	2.2	8
104	Characterization of Electrode Materials for Lithium Ion and Sodium Ion Batteries Using Synchrotron Radiation Techniques. <i>Journal of Visualized Experiments</i> , 2013, , e50594.	0.3	8
105	3D inverse-opal structured Li ₄ Ti ₅ O ₁₂ Anode for fast Li-Ion storage capabilities. <i>Electronic Materials Letters</i> , 2017, 13, 505-511.	2.2	8
106	Nanocrystal heterostructures of LiCoO ₂ with conformal passivating shells. <i>Nanoscale</i> , 2018, 10, 6954-6961.	5.6	8
107	Nanoporous Pt thin films with superior catalytic activities by the electrochemical dissolution of Al. <i>Metals and Materials International</i> , 2009, 15, 989-992.	3.4	7
108	Electrochemical Reactivity with Lithium of Spinel-type ZnFe ₂ Cr ₂ O ₄ (0 at% to 2). <i>Journal of Physical Chemistry C</i> , 2013, 117, 24213-24223.	3.1	7

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109	Effect of annealing temperature on the interfacial interaction of LiNi _{0.5} Mn _{1.5} O ₄ thin film cathode with stainless-steel substrate. <i>Journal of Electroceramics</i> , 2019, 42, 104-112.	2.0	7
110	Enhancing the inherent catalytic activity and stability of TiO ₂ supported Pt single-atoms at CeO _x /TiO ₂ interfaces. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5942-5952.	10.3	7
111	Interspersing CeO _x Clusters to the Pt/TiO ₂ Interfaces for Catalytic Promotion of TiO ₂ -Supported Pt Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1719-1725.	4.6	7
112	Understandings about functionalized porous carbon via scanning transmission x-ray microscopy (STXM) for high sulfur utilization in lithium-sulfur batteries. <i>Nano Energy</i> , 2022, 100, 107446.	16.0	7
113	The Electrochemical Analysis using Critical Parameters in Li-S Battery. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 2596-2600.	1.9	6
114	Critical Size of a Nano SnO ₂ Electrode for Li-Secondary Battery.. <i>ChemInform</i> , 2005, 36, no.	0.0	3
115	Toward General Rules for the Design of Battery Electrodes Based on Titanium Oxides and Free of Conductive Additives. <i>Energy Technology</i> , 2014, 2, 383-390.	3.8	3
116	Intercalation of Mg into a Few-Layer Phyllosulfate in Nonaqueous Electrolytes at Room Temperature. <i>Chemistry of Materials</i> , 2020, 32, 6014-6025.	6.7	3
117	Effects of Photochemical Oxidation of the Carbonaceous Additives on Li-S Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41517-41523.	8.0	3
118	Modification of the electrochemical activity of LiMn _{1.95} Si _{0.05} O ₄ spinel via addition of phases with different physico-chemical properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3216.	10.3	2
119	Lithium-Sulfur Batteries: Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance Li-S Battery (<i>Adv. Energy Mater.</i> 11/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	19.5	2
120	Stabilization of Nickel-Rich Layered Cathode Materials of High Energy Density by Ca Doping. <i>Korean Journal of Materials Research</i> , 2018, 28, 273-278.	0.2	2
121	Temperature-Dependence Study on the Hydrogen Transport Properties of Polymers Used for Hydrogen Infrastructure. <i>Applied Science and Convergence Technology</i> , 2021, 30, 163-166.	0.9	2
122	Synthesis and Characterization of Core-Shell Nanocrystals of Co-Rich Cathodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 050501.	2.9	1
123	Synthesis of Magneli Phases and Application to the Photoelectrochemical Electrode. <i>Korean Journal of Materials Research</i> , 2018, 28, 261-267.	0.2	1
124	Photoelectrochemical Behavior of Cu ₂ O and Its Passivation Effect. <i>Korean Journal of Materials Research</i> , 2019, 29, 1-6.	0.2	1
125	Enhanced detection sensitivity through enzyme-induced precipitate accumulation in LSPR-active nano-valleys. <i>RSC Advances</i> , 2022, 12, 15652-15657.	3.6	1
126	Next-Generation Electrocatalysts. , 2017, , 713-741.		0

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127	Lithium-Sulfur Batteries: The Importance of Confined Sulfur Nanodomains and Adjoining Electron Conductive Pathways in Subreaction Regimes of Li-S Batteries (Adv. Energy Mater. 19/2017). Advanced Energy Materials, 2017, 7, .	19.5	0
128	Fabrication and H ₂ S Sensing Property of Nickel Oxide and Nickel Oxide-Carbon Nanotube Composite. Korean Journal of Materials Research, 2018, 28, 466-473.	0.2	0
129	Communication Polysulfide-Induced Chemical Capacity Loss in Li-S Batteries. Journal of the Electrochemical Society, 0, , .	2.9	0