Joong Kee Lee

List of Publications by Year in descending order

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Version: 2024-02-01

85 papers	3,059 citations	101543 36 h-index	175258 52 g-index
88 all docs	88 docs citations	88 times ranked	4744 citing authors

#	Article	IF	Citations
1	Uniformly distributed reaction by 3D host-lithium composite anode for high rate capability and reversibility of Li-O2 batteries. Chemical Engineering Journal, 2022, 427, 130914.	12.7	10
2	Photoactive g-C3N4/CuZIF-67 bifunctional electrocatalyst with staggered p-n heterojunction for rechargeable Zn-air batteries. Applied Catalysis B: Environmental, 2022, 306, 121096.	20.2	31
3	Stable Zn Metal Anodes with Limited Zn-Doping in MgF2 Interphase for Fast and Uniformly Ionic Flux. Nano-Micro Letters, 2022, 14, 46.	27.0	23
4	Flexible, fiber-shaped, quasi-solid-state Zn-polyaniline batteries with methanesulfonic acid-doped aqueous gel electrolyte. Energy Storage Materials, 2021, 35, 739-749.	18.0	55
5	Rambutan peel derived porous carbons for lithium sulfur battery. SN Applied Sciences, 2021, 3, 1.	2.9	8
6	A Shapeâ€Variable, Lowâ€Temperature Liquid Metalâ€“Conductive Polymer Aqueous Secondary Battery. Advanced Functional Materials, 2021, 31, 2107062.	14.9	17
7	Potato Peel Based Carbonâ€“Sulfur Composite as Cathode Materials for Lithium Sulfur Battery. Journal of Nanoscience and Nanotechnology, 2021, 21, 6243-6247.	0.9	5
8	Chemically tuned, bi-functional polar interlayer for TiO₂ photoanodes in fibre-shaped dye-sensitized solar cells. Journal of Materials Chemistry A, 2020, 8, 2549-2562.	10.3	17
9	Functionalized Zn@ZnO Hexagonal Pyramid Array for Dendriteâ€Free and Ultrastable Zinc Metal Anodes. Advanced Functional Materials, 2020, 30, 2004210.	14.9	148
10	Lithium-Ion Batteryâ€”3D Micro-/Nano-Structuring, Modification and Characterization. Springer Series in Materials Science, 2020, , 313-347.	0.6	2
11	Plasma-polymerized C60-coated CNT interlayer with physical and chemical functions for lithiumâ€“sulfur batteries. Chemical Engineering Journal, 2020, 401, 126075.	12.7	43
12	Plasma-Assisted Surface Modification on the Electrode Interface for Flexible Fiber-Shaped Znâ€“Polyaniline Batteries. ACS Applied Materials & Interfaces, 2020, 12, 5820-5830.	8.0	50
13	Hierarchical hollow dual Coreâ€“Shell carbon nanowall-encapsulated pâ€“n SnO/SnO2 heterostructured anode for high-performance lithium-ion-based energy storage. Carbon, 2019, 153, 62-72.	10.3	42
14	Antiglare and antireflective coating of layer-by-layer SiO2 and TiZrO2 on surface-modified glass. Applied Surface Science, 2019, 490, 278-282.	6.1	5
15	Synthesis and characterization of a hierarchically structured three-dimensional conducting scaffold for highly stable Li metal anodes. Journal of Materials Chemistry A, 2019, 7, 12882-12892.	10.3	20
16	Effects of annealing temperature on the electrochemical characteristics of ZnO microrods as anode materials of lithium-ion battery using chemical bath deposition. Ionics, 2019, 25, 457-466.	2.4	13
17	Li₄SiO₄-Based Artificial Passivation Thin Film for Improving Interfacial Stability of Li Metal Anodes. ACS Applied Materials & Interfaces, 2018, 10, 8692-8701.	8.0	71
18	Robust anti-icing performance of silicon wafer with hollow micro-/nano-structured ZnO. Journal of Industrial and Engineering Chemistry, 2018, 62, 46-51.	5.8	26

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19	ZnO Nanorod Array Modified PVDF Membrane with Superhydrophobic Surface for Vacuum Membrane Distillation Application. ACS Applied Materials & Interfaces, 2018, 10, 13452-13461.	8.0	109
20	Hierarchically structured photoanode with enhanced charge collection and light harvesting abilities for fiber-shaped dye-sensitized solar cells. Nano Energy, 2018, 49, 95-102.	16.0	40
21	A novel flexible micro-ratchet/ZnO nano-rods surface with rapid recovery icephobic performance. Journal of Industrial and Engineering Chemistry, 2018, 62, 52-57.	5.8	31
22	Study on a stretchable, fiber-shaped, and TiO2 nanowire array-based dye-sensitized solar cell with electrochemical impedance spectroscopy method. Electrochimica Acta, 2018, 267, 34-40.	5.2	32
23	Soft, Highly Elastic, and Dischargeâ€Currentâ€Controllable Eutectic Galliumâ€“Indium Liquid Metalâ€“Air Battery Operated at Room Temperature. Advanced Energy Materials, 2018, 8, 1703652.	19.5	91
24	Self-Relaxant Superelastic Matrix Derived from C₆₀ Incorporated Sn Nanoparticles for Ultra-High-Performance Li-Ion Batteries. ACS Nano, 2018, 12, 5588-5604.	14.6	67
25	Design and synthesis of an interfacial layer of the polysulfide immobilizer for lithium-sulfur batteries by the one-pot hydrothermal method. Applied Surface Science, 2018, 461, 154-160.	6.1	3
26	Ordered SnO nanoparticles in MWCNT as a functional host material for high-rate lithium-sulfur battery cathode. Nano Research, 2017, 10, 2083-2095.	10.4	40
27	Cu3Si-doped porous-silicon particles prepared by simplified chemical vapor deposition method as anode material for high-rate and long-cycle lithium-ion batteries. Journal of Alloys and Compounds, 2017, 701, 425-432.	5.5	42
28	Pseudocapacitive Characteristics of Low-Carbon Silicon Oxycarbide for Lithium-Ion Capacitors. ACS Applied Materials & Interfaces, 2017, 9, 20566-20576.	8.0	54
29	Icephobic performance on the aluminum foil-based micro-/nanostructured surface. Chinese Physics B, 2017, 26, 046801.	1.4	6
30	Synthesis and modification of activated carbon originated from Indonesian local Orange peel for lithium ion Capacitorâ€™s cathode. Journal of Solid State Electrochemistry, 2017, 21, 1331-1342.	2.5	12
31	Preparation of Kerosene Based Carbon Nanomaterials by Nebulized Spray Pyrolysis. Journal of Nanoscience and Nanotechnology, 2017, 17, 4275-4278.	0.9	0
32	One-Step Catalytic Synthesis of CuO/Cu₂O in a Graphitized Porous C Matrix Derived from the Cu-Based Metalâ€“Organic Framework for Li- and Na-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 19514-19523.	8.0	99
33	Synthesis of kerosene based nanocarbons by a nebulized spray pyrolysis method. AIP Conference Proceedings, 2016, , .	0.4	0
34	A novel photoanode with high flexibility for fiber-shaped dye sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 5925-5931.	10.3	32
35	Carbon-coated silicon nanoparticle-embedded carbon sphere assembly electrodes with enhanced performance for lithium-ion batteries. RSC Advances, 2016, 6, 38012-38017.	3.6	7
36	Using TiO2 Mesoflower Interlayer in Tubular Porous Titanium Membranes for Enhanced Electrocatalytic Filtration. Electrochimica Acta, 2016, 218, 318-324.	5.2	40

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37	Employment of SnO2:F@Ni3Sn2/Ni nanoclusters composites as an anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2016, 680, 744-751.	5.5	7
38	Self-assembly of cobalt hexacyanoferrate crystals in 1-D array using ion exchange transformation route for enhanced electrocatalytic oxidation of alkaline and neutral water. Journal of Materials Chemistry A, 2016, 4, 9781-9788.	10.3	57
39	Phenyl-rich silicone oil as a precursor for SiOC anode materials for long-cycle and high-rate lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 2651-2656.	10.3	93
40	Interfacial Engineering for Enhanced Light Absorption and Charge Transfer of a Solution-Processed Bulk Heterojunction Based on Heptazole as a Small Molecule Type of Donor. ACS Applied Materials & Interfaces, 2016, 8, 8637-8643.	8.0	21
41	Oxidation-resistant hybrid metal oxides/metal nanodots/silver nanowires for high performance flexible transparent heaters. Nanoscale, 2016, 8, 3307-3313.	5.6	55
42	Revisiting Metal Sulfide Semiconductors: A Solutionâ€Based General Protocol for Thin Film Formation, Hall Effect Measurement, and Application Prospects. Advanced Functional Materials, 2015, 25, 5739-5747.	14.9	70
43	3D Wovenâ€Like Carbon Micropattern Decorated with Silicon Nanoparticles for Use in Lithiumâ€Ion Batteries. ChemSusChem, 2015, 8, 3414-3418.	6.8	8
44	Coating of sulfur particles with manganese oxide nanowires as a cathode material in lithiumâ€“sulfur batteries. Materials Letters, 2015, 158, 132-135.	2.6	41
45	Three-dimensional silicon/carbon coreâ€“shell electrode as an anode material for lithium-ion batteries. Journal of Power Sources, 2015, 279, 13-20.	7.8	113
46	Interfacial Engineering of CdOâ€“CdSe 3D Microarchitectures with inÂsitu Photopolymerized <scp>PEDOT</scp> for an Enhanced Photovoltaic Performance. Photochemistry and Photobiology, 2015, 91, 780-785.	2.5	8
47	Indolocarbazole based small molecules: an efficient hole transporting material for perovskite solar cells. RSC Advances, 2015, 5, 55321-55327.	3.6	44
48	Electrochemical characteristics of fluorine-doped tin oxide film coated on stainless steel bipolar plates. Surface and Coatings Technology, 2015, 277, 1-6.	4.8	11
49	Uniformly dispersed silicon nanoparticle/carbon nanosphere composites as highly stable lithium-ion battery electrodes. RSC Advances, 2015, 5, 17424-17428.	3.6	12
50	An elastic carbon layer on echeveria-inspired SnO2 anode for long-cycle and high-rate lithium ion batteries. Carbon, 2015, 94, 539-547.	10.3	37
51	An ion exchange mediated shape-preserving strategy for constructing 1-D arrays of porous CoS_{1.0365} nanorods for electrocatalytic reduction of triiodide. Journal of Materials Chemistry A, 2015, 3, 7900-7909.	10.3	57
52	Fullerene coated indium tin oxide counter electrode of Prussian blue electrode for enhanced electrochromic properties. Solar Energy Materials and Solar Cells, 2015, 139, 44-50.	6.2	8
53	Coating Lithium Titanate with Nitrogen-Doped Carbon by Simple Refluxing for High-Power Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 10250-10257.	8.0	65
54	Formation of Semimetallic Cobalt Telluride Nanotube Film via Anion Exchange Tellurization Strategy in Aqueous Solution for Electrocatalytic Applications. ACS Applied Materials & Interfaces, 2015, 7, 25914-25922.	8.0	76

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55	Si nanoparticles-nested inverse opal carbon supports for highly stable lithium-ion battery anodes. Journal of Materials Chemistry A, 2015, 3, 23684-23689.	10.3	31
56	Si/Ti₂O₃/Reduced Graphene Oxide Nanocomposite Anodes for Lithium-Ion Batteries with Highly Enhanced Cyclic Stability. ACS Applied Materials & Interfaces, 2015, 7, 18483-18490.	8.0	53
57	Charge Transfer-Induced Molecular Hole Doping into Thin Film of Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2015, 7, 18501-18507.	8.0	58
58	A polymerized C60 coating enhancing interfacial stability at three-dimensional LiCoO2 in high-potential regime. Journal of Power Sources, 2015, 298, 1-7.	7.8	21
59	Plasma-polymerized C60 as a functionalized coating layer on fluorine-doped tin oxides for anode materials of lithium-ion batteries. Carbon, 2015, 81, 835-838.	10.3	23
60	Surface modification of LiNi0.5Mn1.5O4 cathodes with ZnAl2O4 by a solâ€“gel method for lithium ion batteries. Electrochimica Acta, 2014, 115, 326-331.	5.2	47
61	SnO2-coated LiCoO2 cathode material for high-voltage applications in lithium-ion batteries. Solid State Ionics, 2014, 256, 89-92.	2.7	33
62	Double-layer effect on electrothermal properties of transparent heaters. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1923-1927.	1.8	23
63	Electrochemical behavior of a laser microstructured fluorine doped tin oxide anode layer with a plasma pretreatment for 3D battery systems. RSC Advances, 2014, 4, 4247-4252.	3.6	9
64	Alâ€“C hybrid nanoclustered anodes for lithium ion batteries with high electrical capacity and cyclic stability. Chemical Communications, 2014, 50, 2837-2840.	4.1	45
65	A coordination chemistry approach for shape controlled synthesis of indium oxide nanostructures and their photoelectrochemical properties. Journal of Materials Chemistry A, 2014, 2, 5490-5498.	10.3	65
66	A facile approach for carburization of anodically grown titania nanotubes: towards metallization of nanotubes. RSC Advances, 2014, 4, 32599.	3.6	3
67	Effect of micro-patterned fluorine-doped tin oxide films on electrochromic properties of Prussian blue films. Applied Surface Science, 2014, 313, 864-869.	6.1	15
68	Solution processed high bandâ€gap CuInGaS₂ thin film for solar cell applications. Progress in Photovoltaics: Research and Applications, 2014, 22, 122-128.	8.1	60
69	Effect of lithium difluoro (oxalato) borate on LiMn2O4-activated carbon hybrid capacitors. Electronic Materials Letters, 2013, 9, 751-754.	2.2	8
70	Silicon/copper dome-patterned electrodes for high-performance hybrid supercapacitors. Scientific Reports, 2013, 3, 3183.	3.3	62
71	Effect of polyimide binder on electrochemical characteristics of surface-modified silicon anode for lithium ion batteries. Journal of Power Sources, 2013, 244, 521-526.	7.8	142
72	Photoelectrochemistry of solution processed hematite nanoparticles, nanoparticle-chains and nanorods. RSC Advances, 2012, 2, 11808.	3.6	10

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73	Synthesis of Boron-Doped C₆₀Film Using Plasma-Assisted Thermal Evaporation Technique and its Electrochemical Characterizations. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 216-223.	2.1	3
74	Fullerene C₆₀ Coated Silicon Nanowires as Anode Materials for Lithium Secondary Batteries. Journal of Nanoscience and Nanotechnology, 2012, 12, 3547-3551.	0.9	8
75	CdS buffer-layer free highly efficient ZnO-CdSe photoelectrochemical cells. Applied Physics Letters, 2012, 101, .	3.3	26
76	Effect of fullerene coating on silicon thin film anodes for lithium rechargeable batteries. Journal of Solid State Electrochemistry, 2010, 14, 51-56.	2.5	42
77	Electrochemical performance of silicon thin film anodes covered by diamond-like carbon with various surface coating morphologies. Journal of Solid State Electrochemistry, 2010, 14, 1247-1253.	2.5	5
78	Electrochemical characteristics of semi conductive silicon anode for lithium polymer batteries. Journal of Electroceramics, 2010, 24, 308-312.	2.0	24
79	Surface-Coated Silicon Anodes with Amorphous Carbon Film Prepared by Fullerene C[sub 60] Sputtering. Journal of the Electrochemical Society, 2010, 157, A660.	2.9	13
80	Structural and electrochemical properties of fullerene-coated silicon thin film as anode materials for lithium secondary batteries. Materials Chemistry and Physics, 2009, 113, 249-254.	4.0	55
81	Carbon film covering originated from fullerene C60 on the surface of lithium metal anode for lithium secondary batteries. Journal of Electroceramics, 2009, 23, 248-253.	2.0	25
82	Electrical and optical properties of fluorine-doped tin oxide (SnOx:F) thin films deposited on PET by using ECRâ€“MOCVD. Journal of Electroceramics, 2009, 23, 506-511.	2.0	24
83	Electrochemical characteristics of amophous carbon coated silicon electrodes. Korean Journal of Chemical Engineering, 2009, 26, 1034-1039.	2.7	5
84	Electrochemical characteristics of silicon-metals coated graphites for anode materials of lithium secondary batteries. Journal of Electroceramics, 2006, 17, 661-665.	2.0	19
85	Metalâ€“Semiconductor Ohmic and Schottky Contact Interfaces for Stable Li-Metal Electrodes. ACS Energy Letters, 0, , 1432-1442.	17.4	27