

Joong Kee Lee

List of Publications by Year in descending order

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3,059
citations

101384

36
h-index

174990

52
g-index

88
all docs

88
docs citations

88
times ranked

4744
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalized Zn@ZnO Hexagonal Pyramid Array for Dendrite-Free and Ultrastable Zinc Metal Anodes. <i>Advanced Functional Materials</i> , 2020, 30, 2004210.	7.8	148
2	Effect of polyimide binder on electrochemical characteristics of surface-modified silicon anode for lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 244, 521-526.	4.0	142
3	Three-dimensional silicon/carbon core-shell electrode as an anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 279, 13-20.	4.0	113
4	ZnO Nanorod Array Modified PVDF Membrane with Superhydrophobic Surface for Vacuum Membrane Distillation Application. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13452-13461.	4.0	109
5	One-Step Catalytic Synthesis of CuO/Cu ₂ O in a Graphitized Porous C Matrix Derived from the Cu-Based Metal-Organic Framework for Li- and Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19514-19523.	4.0	99
6	Phenyl-rich silicone oil as a precursor for SiOC anode materials for long-cycle and high-rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2651-2656.	5.2	93
7	Soft, Highly Elastic, and Discharge-Current-Controllable Eutectic Gallium-Indium Liquid Metal-Air Battery Operated at Room Temperature. <i>Advanced Energy Materials</i> , 2018, 8, 1703652.	10.2	91
8	Formation of Semimetallic Cobalt Telluride Nanotube Film via Anion Exchange Tellurization Strategy in Aqueous Solution for Electrocatalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25914-25922.	4.0	76
9	Li ₄ SiO ₄ -Based Artificial Passivation Thin Film for Improving Interfacial Stability of Li Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8692-8701.	4.0	71
10	Revisiting Metal Sulfide Semiconductors: A Solution-Based General Protocol for Thin Film Formation, Hall Effect Measurement, and Application Prospects. <i>Advanced Functional Materials</i> , 2015, 25, 5739-5747.	7.8	70
11	Self-Relaxant Superelastic Matrix Derived from C ₆₀ Incorporated Sn Nanoparticles for Ultra-High-Performance Li-Ion Batteries. <i>ACS Nano</i> , 2018, 12, 5588-5604.	7.3	67
12	A coordination chemistry approach for shape controlled synthesis of indium oxide nanostructures and their photoelectrochemical properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5490-5498.	5.2	65
13	Coating Lithium Titanate with Nitrogen-Doped Carbon by Simple Refluxing for High-Power Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 10250-10257.	4.0	65
14	Silicon/copper dome-patterned electrodes for high-performance hybrid supercapacitors. <i>Scientific Reports</i> , 2013, 3, 3183.	1.6	62
15	Solution processed high band-gap CuInGaS ₂ thin film for solar cell applications. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 122-128.	4.4	60
16	Charge Transfer-Induced Molecular Hole Doping into Thin Film of Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18501-18507.	4.0	58
17	An ion exchange mediated shape-preserving strategy for constructing 1-D arrays of porous CoS _{1.0365} nanorods for electrocatalytic reduction of triiodide. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7900-7909.	5.2	57
18	Self-assembly of cobalt hexacyanoferrate crystals in 1-D array using ion exchange transformation route for enhanced electrocatalytic oxidation of alkaline and neutral water. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9781-9788.	5.2	57

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19	Structural and electrochemical properties of fullerene-coated silicon thin film as anode materials for lithium secondary batteries. <i>Materials Chemistry and Physics</i> , 2009, 113, 249-254.	2.0	55
20	Oxidation-resistant hybrid metal oxides/metal nanodots/silver nanowires for high performance flexible transparent heaters. <i>Nanoscale</i> , 2016, 8, 3307-3313.	2.8	55
21	Flexible, fiber-shaped, quasi-solid-state Zn-polyaniline batteries with methanesulfonic acid-doped aqueous gel electrolyte. <i>Energy Storage Materials</i> , 2021, 35, 739-749.	9.5	55
22	Pseudocapacitive Characteristics of Low-Carbon Silicon Oxycarbide for Lithium-Ion Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20566-20576.	4.0	54
23	Si/Ti ₂ O ₃ /Reduced Graphene Oxide Nanocomposite Anodes for Lithium-Ion Batteries with Highly Enhanced Cyclic Stability. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18483-18490.	4.0	53
24	Plasma-Assisted Surface Modification on the Electrode Interface for Flexible Fiber-Shaped Zn-Polyaniline Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5820-5830.	4.0	50
25	Surface modification of LiNi _{0.5} Mn _{1.5} O ₄ cathodes with ZnAl ₂ O ₄ by a sol-gel method for lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 115, 326-331.	2.6	47
26	Al-C hybrid nanoclustered anodes for lithium ion batteries with high electrical capacity and cyclic stability. <i>Chemical Communications</i> , 2014, 50, 2837-2840.	2.2	45
27	Indolocarbazole based small molecules: an efficient hole transporting material for perovskite solar cells. <i>RSC Advances</i> , 2015, 5, 55321-55327.	1.7	44
28	Plasma-polymerized C60-coated CNT interlayer with physical and chemical functions for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2020, 401, 126075.	6.6	43
29	Effect of fullerene coating on silicon thin film anodes for lithium rechargeable batteries. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 51-56.	1.2	42
30	Cu ₃ Si-doped porous-silicon particles prepared by simplified chemical vapor deposition method as anode material for high-rate and long-cycle lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 701, 425-432.	2.8	42
31	Hierarchical hollow dual Core-Shell carbon nanowall-encapsulated SnO/SnO ₂ heterostructured anode for high-performance lithium-ion-based energy storage. <i>Carbon</i> , 2019, 153, 62-72.	5.4	42
32	Coating of sulfur particles with manganese oxide nanowires as a cathode material in lithium-sulfur batteries. <i>Materials Letters</i> , 2015, 158, 132-135.	1.3	41
33	Using TiO ₂ Mesoflower Interlayer in Tubular Porous Titanium Membranes for Enhanced Electrocatalytic Filtration. <i>Electrochimica Acta</i> , 2016, 218, 318-324.	2.6	40
34	Ordered SnO nanoparticles in MWCNT as a functional host material for high-rate lithium-sulfur battery cathode. <i>Nano Research</i> , 2017, 10, 2083-2095.	5.8	40
35	Hierarchically structured photoanode with enhanced charge collection and light harvesting abilities for fiber-shaped dye-sensitized solar cells. <i>Nano Energy</i> , 2018, 49, 95-102.	8.2	40
36	An elastic carbon layer on echeveria-inspired SnO ₂ anode for long-cycle and high-rate lithium ion batteries. <i>Carbon</i> , 2015, 94, 539-547.	5.4	37

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37	SnO ₂ -coated LiCoO ₂ cathode material for high-voltage applications in lithium-ion batteries. <i>Solid State Ionics</i> , 2014, 256, 89-92.	1.3	33
38	A novel photoanode with high flexibility for fiber-shaped dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5925-5931.	5.2	32
39	Study on a stretchable, fiber-shaped, and TiO ₂ nanowire array-based dye-sensitized solar cell with electrochemical impedance spectroscopy method. <i>Electrochimica Acta</i> , 2018, 267, 34-40.	2.6	32
40	Si nanoparticles-nested inverse opal carbon supports for highly stable lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23684-23689.	5.2	31
41	A novel flexible micro-ratchet/ZnO nano-rods surface with rapid recovery icephobic performance. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 52-57.	2.9	31
42	Photoactive g-C ₃ N ₄ /CuZIF-67 bifunctional electrocatalyst with staggered p-n heterojunction for rechargeable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121096.	10.8	31
43	Metal-Semiconductor Ohmic and Schottky Contact Interfaces for Stable Li-Metal Electrodes. <i>ACS Energy Letters</i> , 0, , 1432-1442.	8.8	27
44	CdS buffer-layer free highly efficient ZnO-CdSe photoelectrochemical cells. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	26
45	Robust anti-icing performance of silicon wafer with hollow micro-/nano-structured ZnO. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 46-51.	2.9	26
46	Carbon film covering originated from fullerene C ₆₀ on the surface of lithium metal anode for lithium secondary batteries. <i>Journal of Electroceramics</i> , 2009, 23, 248-253.	0.8	25
47	Electrical and optical properties of fluorine-doped tin oxide (SnO _x :F) thin films deposited on PET by using ECR-MOCVD. <i>Journal of Electroceramics</i> , 2009, 23, 506-511.	0.8	24
48	Electrochemical characteristics of semi conductive silicon anode for lithium polymer batteries. <i>Journal of Electroceramics</i> , 2010, 24, 308-312.	0.8	24
49	Double-layer effect on electrothermal properties of transparent heaters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1923-1927.	0.8	23
50	Plasma-polymerized C ₆₀ as a functionalized coating layer on fluorine-doped tin oxides for anode materials of lithium-ion batteries. <i>Carbon</i> , 2015, 81, 835-838.	5.4	23
51	Stable Zn Metal Anodes with Limited Zn-Doping in MgF ₂ Interphase for Fast and Uniformly Ionic Flux. <i>Nano-Micro Letters</i> , 2022, 14, 46.	14.4	23
52	A polymerized C ₆₀ coating enhancing interfacial stability at three-dimensional LiCoO ₂ in high-potential regime. <i>Journal of Power Sources</i> , 2015, 298, 1-7.	4.0	21
53	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. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8637-8643.	4.0	21
54	Synthesis and characterization of a hierarchically structured three-dimensional conducting scaffold for highly stable Li metal anodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12882-12892.	5.2	20

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55	Electrochemical characteristics of silicon-metals coated graphites for anode materials of lithium secondary batteries. <i>Journal of Electroceramics</i> , 2006, 17, 661-665.	0.8	19
56	Chemically tuned, bi-functional polar interlayer for TiO ₂ photoanodes in fibre-shaped dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2549-2562.	5.2	17
57	A Shape-Variable, Low-Temperature Liquid Metal-Conductive Polymer Aqueous Secondary Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2107062.	7.8	17
58	Effect of micro-patterned fluorine-doped tin oxide films on electrochromic properties of Prussian blue films. <i>Applied Surface Science</i> , 2014, 313, 864-869.	3.1	15
59	Surface-Coated Silicon Anodes with Amorphous Carbon Film Prepared by Fullerene C[sub 60] Sputtering. <i>Journal of the Electrochemical Society</i> , 2010, 157, A660.	1.3	13
60	Effects of annealing temperature on the electrochemical characteristics of ZnO microrods as anode materials of lithium-ion battery using chemical bath deposition. <i>Ionics</i> , 2019, 25, 457-466.	1.2	13
61	Uniformly dispersed silicon nanoparticle/carbon nanosphere composites as highly stable lithium-ion battery electrodes. <i>RSC Advances</i> , 2015, 5, 17424-17428.	1.7	12
62	Synthesis and modification of activated carbon originated from Indonesian local Orange peel for lithium ion Capacitor's cathode. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1331-1342.	1.2	12
63	Electrochemical characteristics of fluorine-doped tin oxide film coated on stainless steel bipolar plates. <i>Surface and Coatings Technology</i> , 2015, 277, 1-6.	2.2	11
64	Photoelectrochemistry of solution processed hematite nanoparticles, nanoparticle-chains and nanorods. <i>RSC Advances</i> , 2012, 2, 11808.	1.7	10
65	Uniformly distributed reaction by 3D host-lithium composite anode for high rate capability and reversibility of Li-O ₂ batteries. <i>Chemical Engineering Journal</i> , 2022, 427, 130914.	6.6	10
66	Electrochemical behavior of a laser microstructured fluorine doped tin oxide anode layer with a plasma pretreatment for 3D battery systems. <i>RSC Advances</i> , 2014, 4, 4247-4252.	1.7	9
67	Fullerene C₆₀ Coated Silicon Nanowires as Anode Materials for Lithium Secondary Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 3547-3551.	0.9	8
68	Effect of lithium difluoro (oxalato) borate on LiMn ₂ O ₄ -activated carbon hybrid capacitors. <i>Electronic Materials Letters</i> , 2013, 9, 751-754.	1.0	8
69	3D Woven-Like Carbon Micropattern Decorated with Silicon Nanoparticles for Use in Lithium-Ion Batteries. <i>ChemSusChem</i> , 2015, 8, 3414-3418.	3.6	8
70	Interfacial Engineering of CdO-CdSe 3D Microarchitectures with <i>in situ</i> Photopolymerized PEDOT for an Enhanced Photovoltaic Performance. <i>Photochemistry and Photobiology</i> , 2015, 91, 780-785.	1.3	8
71	Fullerene coated indium tin oxide counter electrode of Prussian blue electrode for enhanced electrochromic properties. <i>Solar Energy Materials and Solar Cells</i> , 2015, 139, 44-50.	3.0	8
72	Rambutan peel derived porous carbons for lithium sulfur battery. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	8

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73	Carbon-coated silicon nanoparticle-embedded carbon sphere assembly electrodes with enhanced performance for lithium-ion batteries. RSC Advances, 2016, 6, 38012-38017.	1.7	7
74	Employment of SnO ₂ :F@Ni ₃ Sn ₂ /Ni nanoclusters composites as an anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2016, 680, 744-751.	2.8	7
75	Icephobic performance on the aluminum foil-based micro-/nanostructured surface. Chinese Physics B, 2017, 26, 046801.	0.7	6
76	Electrochemical characteristics of amorphous carbon coated silicon electrodes. Korean Journal of Chemical Engineering, 2009, 26, 1034-1039.	1.2	5
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.	1.2	5
78	Antiglare and antireflective coating of layer-by-layer SiO ₂ and TiZrO ₂ on surface-modified glass. Applied Surface Science, 2019, 490, 278-282.	3.1	5
79	Potato Peel Based Carbon-Sulfur Composite as Cathode Materials for Lithium Sulfur Battery. Journal of Nanoscience and Nanotechnology, 2021, 21, 6243-6247.	0.9	5
80	Synthesis of Boron-Doped C ₆₀ Film Using Plasma-Assisted Thermal Evaporation Technique and its Electrochemical Characterizations. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 216-223.	1.0	3
81	A facile approach for carburization of anodically grown titania nanotubes: towards metallization of nanotubes. RSC Advances, 2014, 4, 32599.	1.7	3
82	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.	3.1	3
83	Lithium-Ion Battery-3D Micro-/Nano-Structuring, Modification and Characterization. Springer Series in Materials Science, 2020, , 313-347.	0.4	2
84	Synthesis of kerosene based nanocarbons by a nebulized spray pyrolysis method. AIP Conference Proceedings, 2016, , .	0.3	0
85	Preparation of Kerosene Based Carbon Nanomaterials by Nebulized Spray Pyrolysis. Journal of Nanoscience and Nanotechnology, 2017, 17, 4275-4278.	0.9	0