

Joong Kee Lee

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84
papers

2,264
citations

30
h-index

44
g-index

88
ext. papers

2,651
ext. citations

7.8
avg, IF

5.2
L-index

#	Paper	IF	Citations
84	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	8.9	114
83	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	8.9	92
82	ZnO Nanorod Array Modified PVDF Membrane with Superhydrophobic Surface for Vacuum Membrane Distillation Application. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13452-13461	9.5	77
81	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, 19514-23	9.5	76
80	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	13	66
79	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	21.8	61
78	Functionalized Zn@ZnO Hexagonal Pyramid Array for Dendrite-Free and Ultrastable Zinc Metal Anodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2004210	15.6	59
77	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	6.8	58
76	Coating lithium titanate with nitrogen-doped carbon by simple refluxing for high-power lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10250-7	9.5	57
75	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, 25914-22	9.5	57
74	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	13	52
73	Silicon/copper dome-patterned electrodes for high-performance hybrid supercapacitors. <i>Scientific Reports</i> , 2013 , 3, 3183	4.9	52
72	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	15.6	51
71	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	4.4	50
70	Charge Transfer-Induced Molecular Hole Doping into Thin Film of Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18501-7	9.5	49
69	LiSiO-Based Artificial Passivation Thin Film for Improving Interfacial Stability of Li Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8692-8701	9.5	48
68	Oxidation-resistant hybrid metal oxides/metal nanodots/silver nanowires for high performance flexible transparent heaters. <i>Nanoscale</i> , 2016 , 8, 3307-13	7.7	48

67	Self-Relaxant Superelastic Matrix Derived from C Incorporated Sn Nanoparticles for Ultra-High-Performance Li-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 5588-5604	16.7	45
66	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	13	44
65	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	13	42
64	Pseudocapacitive Characteristics of Low-Carbon Silicon Oxycarbide for Lithium-Ion Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20566-20576	9.5	41
63	Si/TiO ₂ /Reduced Graphene Oxide Nanocomposite Anodes for Lithium-Ion Batteries with Highly Enhanced Cyclic Stability. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18483-90	9.5	41
62	Al-C hybrid nanoclustered anodes for lithium ion batteries with high electrical capacity and cyclic stability. <i>Chemical Communications</i> , 2014 , 50, 2837-40	5.8	40
61	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	6.7	39
60	Coating of sulfur particles with manganese oxide nanowires as a cathode material in lithium-sulfur batteries. <i>Materials Letters</i> , 2015 , 158, 132-135	3.3	38
59	Indolocarbazole based small molecules: an efficient hole transporting material for perovskite solar cells. <i>RSC Advances</i> , 2015 , 5, 55321-55327	3.7	37
58	Effect of fullerene coating on silicon thin film anodes for lithium rechargeable batteries. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 51-56	2.6	37
57	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	10.4	34
56	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	10	33
55	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	5.7	33
54	Hierarchical hollow dual Core-shell carbon nanowall-encapsulated p/n SnO/SnO ₂ heterostructured anode for high-performance lithium-ion-based energy storage. <i>Carbon</i> , 2019 , 153, 62-72	10.4	29
53	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	9.5	28
52	Using TiO ₂ Mesoflower Interlayer in Tubular Porous Titanium Membranes for Enhanced Electrocatalytic Filtration. <i>Electrochimica Acta</i> , 2016 , 218, 318-324	6.7	28
51	Plasma-polymerized C ₆₀ -coated CNT interlayer with physical and chemical functions for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2020 , 401, 126075	14.7	27
50	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	17.1	27

49	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	6.3	27
48	SnO ₂ -coated LiCoO ₂ cathode material for high-voltage applications in lithium-ion batteries. <i>Solid State Ionics</i> , 2014 , 256, 89-92	3.3	27
47	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	19.4	27
46	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	13	26
45	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	6.7	26
44	A novel photoanode with high flexibility for fiber-shaped dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5925-5931	13	25
43	CdS buffer-layer free highly efficient ZnO-CdSe photoelectrochemical cells. <i>Applied Physics Letters</i> , 2012 , 101, 033906	3.4	24
42	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	6.3	23
41	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	1.5	22
40	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	1.5	22
39	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	10.4	20
38	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, 8637-43	9.5	20
37	Double-layer effect on electrothermal properties of transparent heaters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1923-1927	1.6	20
36	Electrochemical characteristics of semi conductive silicon anode for lithium polymer batteries. <i>Journal of Electroceramics</i> , 2010 , 24, 308-312	1.5	20
35	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	8.9	18
34	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	13	16
33	Electrochemical characteristics of silicon-metals coated graphites for anode materials of lithium secondary batteries. <i>Journal of Electroceramics</i> , 2006 , 17, 661-665	1.5	16
32	Uniformly dispersed silicon nanoparticle/carbon nanosphere composites as highly stable lithium-ion battery electrodes. <i>RSC Advances</i> , 2015 , 5, 17424-17428	3.7	12

31	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	3.9	12
30	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	2.6	10
29	Electrochemical characteristics of fluorine-doped tin oxide film coated on stainless steel bipolar plates. <i>Surface and Coatings Technology</i> , 2015 , 277, 1-6	4.4	10
28	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	6.7	10
27	Photoelectrochemistry of solution processed hematite nanoparticles, nanoparticle-chains and nanorods. <i>RSC Advances</i> , 2012 , 2, 11808	3.7	10
26	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	13	9
25	Metal-Semiconductor Ohmic and Schottky Contact Interfaces for Stable Li-Metal Electrodes. <i>ACS Energy Letters</i> , 1432-1442	20.1	9
24	3D Woven-Like Carbon Micropattern Decorated with Silicon Nanoparticles for Use in Lithium-Ion Batteries. <i>ChemSusChem</i> , 2015 , 8, 3414-8	8.3	8
23	Interfacial Engineering of CdO-CdSe 3D Microarchitectures with in-situ Photopolymerized PEDOT for an Enhanced Photovoltaic Performance. <i>Photochemistry and Photobiology</i> , 2015 , 91, 780-5	3.6	8
22	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	3.7	7
21	Carbon-coated silicon nanoparticle-embedded carbon sphere assembly electrodes with enhanced performance for lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 38012-38017	3.7	7
20	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	2.7	7
19	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	6.4	6
18	Effect of lithium difluoro (oxalato) borate on LiMn ₂ O ₄ -activated carbon hybrid capacitors. <i>Electronic Materials Letters</i> , 2013 , 9, 751-754	2.9	6
17	Fullerene C ₆₀ coated silicon nanowires as anode materials for lithium secondary batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 3547-51	1.3	6
16	Electrochemical characteristics of amorphous carbon coated silicon electrodes. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 1034-1039	2.8	5
15	Icephobic performance on the aluminum foil-based micro-/nanostructured surface. <i>Chinese Physics B</i> , 2017 , 26, 046801	1.2	4
14	Employment of SnO ₂ :F@Ni ₃ Sn ₂ /Ni nanoclusters composites as an anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 680, 744-751	5.7	4

13	Stable Zn Metal Anodes with Limited Zn-Doping in MgF Interphase for Fast and Uniformly Ionic Flux.. <i>Nano-Micro Letters</i> , 2022 , 14, 46	19.5	4
12	Antiglare and antireflective coating of layer-by-layer SiO ₂ and TiZrO ₂ on surface-modified glass. <i>Applied Surface Science</i> , 2019 , 490, 278-282	6.7	3
11	Electrochemical performance of silicon thin film anodes covered by diamond-like carbon with various surface coating morphologies. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 1247-1253	2.6	3
10	A Shape-Variable, Low-Temperature Liquid Metal-Conductive Polymer Aqueous Secondary Battery. <i>Advanced Functional Materials</i> , 2107062	15.6	3
9	Design and synthesis of an interfacial layer of the polysulfide immobilizer for lithium-sulfur batteries by the one-pot hydrothermal method. <i>Applied Surface Science</i> , 2018 , 461, 154-160	6.7	2
8	A facile approach for carburization of anodically grown titania nanotubes: towards metallization of nanotubes. <i>RSC Advances</i> , 2014 , 4, 32599	3.7	2
7	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	21.8	2
6	Rambutan peel derived porous carbons for lithium sulfur battery. <i>SN Applied Sciences</i> , 2021 , 3, 1	1.8	2
5	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	14.7	2
4	Synthesis of Boron-Doped C ₆₀ Film Using Plasma-Assisted Thermal Evaporation Technique and its Electrochemical Characterizations. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012 , 20, 216-223	1.8	1
3	Potato Peel Based Carbon-Sulfur Composite as Cathode Materials for Lithium Sulfur Battery. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 6243-6247	1.3	1
2	Lithium-Ion Battery ^{BD} Micro-/Nano-Structuring, Modification and Characterization. <i>Springer Series in Materials Science</i> , 2020 , 313-347	0.9	0
1	Preparation of Kerosene Based Carbon Nanomaterials by Nebulized Spray Pyrolysis. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 4275-4278	1.3	