

# Joong Kee Lee

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Stable Zn Metal Anodes with Limited Zn-Doping in MgF Interphase for Fast and Uniformly Ionic Flux.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 46  | 19.5 | 4         |
| 83 | Photoactive g-C3N4/CuZIF-67 bifunctional electrocatalyst with staggered p-n heterojunction for rechargeable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 306, 121096           | 21.8 | 2         |
| 82 | Uniformly distributed reaction by 3D host-lithium composite anode for high rate capability and reversibility of Li-O2 batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 130914              | 14.7 | 2         |
| 81 | Rambutan peel derived porous carbons for lithium sulfur battery. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1  | 1.8  | 2         |
| 80 | Flexible, fiber-shaped, quasi-solid-state Zn-polyaniline batteries with methanesulfonic acid-doped aqueous gel electrolyte. <i>Energy Storage Materials</i> , <b>2021</b> , 35, 739-749                       | 19.4 | 27        |
| 79 | Potato Peel Based Carbon-Sulfur Composite as Cathode Materials for Lithium Sulfur Battery. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2021</b> , 21, 6243-6247                                     | 1.3  | 1         |
| 78 | Plasma-polymerized C60-coated CNT interlayer with physical and chemical functions for lithium sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2020</b> , 401, 126075                               | 14.7 | 27        |
| 77 | Plasma-Assisted Surface Modification on the Electrode Interface for Flexible Fiber-Shaped Zn-Polyaniline Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 5820-5830               | 9.5  | 28        |
| 76 | Chemically tuned, bi-functional polar interlayer for TiO2 photoanodes in fibre-shaped dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 2549-2562                        | 13   | 9         |
| 75 | Functionalized Zn@ZnO Hexagonal Pyramid Array for Dendrite-Free and Ultrastable Zinc Metal Anodes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004210   | 15.6 | 59        |
| 74 | Lithium-Ion BatteryBD Micro-/Nano-Structuring, Modification and Characterization. <i>Springer Series in Materials Science</i> , <b>2020</b> , 313-347   | 0.9  | 0         |
| 73 | Antiglare and antireflective coating of layer-by-layer SiO2 and TiZrO2 on surface-modified glass. <i>Applied Surface Science</i> , <b>2019</b> , 490, 278-282   | 6.7  | 3         |
| 72 | Synthesis and characterization of a hierarchically structured three-dimensional conducting scaffold for highly stable Li metal anodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12882-12892 | 13   | 16        |
| 71 | Hierarchical hollow dual CoreShell carbon nanowall-encapsulated pSnO/SnO2 heterostructured anode for high-performance lithium-ion-based energy storage. <i>Carbon</i> , <b>2019</b> , 153, 62-72              | 10.4 | 29        |
| 70 | 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> , <b>2019</b> , 25, 457-466  | 2.7  | 7         |
| 69 | LiSiO-Based Artificial Passivation Thin Film for Improving Interfacial Stability of Li Metal Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 8692-8701                              | 9.5  | 48        |
| 68 | Robust anti-icing performance of silicon wafer with hollow micro-/nano-structured ZnO. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 62, 46-51                                       | 6.3  | 23        |

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| 67 | ZnO Nanorod Array Modified PVDF Membrane with Superhydrophobic Surface for Vacuum Membrane Distillation Application. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 13452-13461   | 9.5  | 77 |
| 66 | Hierarchically structured photoanode with enhanced charge collection and light harvesting abilities for fiber-shaped dye-sensitized solar cells. <i>Nano Energy</i> , <b>2018</b> , 49, 95-102   | 17.1 | 27 |
| 65 | A novel flexible micro-ratchet/ZnO nano-rods surface with rapid recovery icephobic performance. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 62, 52-57   | 6.3  | 27 |
| 64 | Study on a stretchable, fiber-shaped, and TiO <sub>2</sub> nanowire array-based dye-sensitized solar cell with electrochemical impedance spectroscopy method. <i>Electrochimica Acta</i> , <b>2018</b> , 267, 34-40                                  | 6.7  | 26 |
| 63 | Soft, Highly Elastic, and Discharge-Current-Controllable Eutectic Gallium-Indium Liquid Metal-Air Battery Operated at Room Temperature. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703652  | 21.8 | 61 |
| 62 | Self-Relaxant Superelastic Matrix Derived from C Incorporated Sn Nanoparticles for Ultra-High-Performance Li-Ion Batteries. <i>ACS Nano</i> , <b>2018</b> , 12, 5588-5604  | 16.7 | 45 |
| 61 | 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> , <b>2018</b> , 461, 154-160   | 6.7  | 2  |
| 60 | Ordered SnO nanoparticles in MWCNT as a functional host material for high-rate lithium-sulfur battery cathode. <i>Nano Research</i> , <b>2017</b> , 10, 2083-2095  | 10   | 33 |
| 59 | Cu <sub>3</sub> 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> , <b>2017</b> , 701, 425-432  | 5.7  | 33 |
| 58 | Pseudocapacitive Characteristics of Low-Carbon Silicon Oxycarbide for Lithium-Ion Capacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20566-20576   | 9.5  | 41 |
| 57 | Icephobic performance on the aluminum foil-based micro-/nanostructured surface. <i>Chinese Physics B</i> , <b>2017</b> , 26, 046801  | 1.2  | 4  |
| 56 | Synthesis and modification of activated carbon originated from Indonesian local Orange peel for lithium ion Capacitor cathode. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 1331-1342  | 2.6  | 10 |
| 55 | Preparation of Kerosene Based Carbon Nanomaterials by Nebulized Spray Pyrolysis. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 4275-4278  | 1.3  |    |
| 54 | Employment of SnO <sub>2</sub> :F@Ni <sub>3</sub> Sn <sub>2</sub> /Ni nanoclusters composites as an anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 680, 744-751                                    | 5.7  | 4  |
| 53 | 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> , <b>2016</b> , 4, 9781-9788   | 13   | 44 |
| 52 | 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> , <b>2016</b> , 4, 2651-2656  | 13   | 66 |
| 51 | 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 &amp; Interfaces</i> , <b>2016</b> , 8, 8637-43 | 9.5  | 20 |
| 50 | Oxidation-resistant hybrid metal oxides/metal nanodots/silver nanowires for high performance flexible transparent heaters. <i>Nanoscale</i> , <b>2016</b> , 8, 3307-13   | 7.7  | 48 |

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| 49 | One-Step Catalytic Synthesis of CuO/Cu <sub>2</sub> 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 &amp; Interfaces</i> , <b>2016</b> , 8, 19514-23 | 9.5  | 76 |
| 48 | A novel photoanode with high flexibility for fiber-shaped dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5925-5931   | 13   | 25 |
| 47 | Carbon-coated silicon nanoparticle-embedded carbon sphere assembly electrodes with enhanced performance for lithium-ion batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 38012-38017  | 3.7  | 7  |
| 46 | Using TiO <sub>2</sub> Mesoflower Interlayer in Tubular Porous Titanium Membranes for Enhanced Electrocatalytic Filtration. <i>Electrochimica Acta</i> , <b>2016</b> , 218, 318-324  | 6.7  | 28 |
| 45 | Indolocarbazole based small molecules: an efficient hole transporting material for perovskite solar cells. <i>RSC Advances</i> , <b>2015</b> , 5, 55321-55327  | 3.7  | 37 |
| 44 | Electrochemical characteristics of fluorine-doped tin oxide film coated on stainless steel bipolar plates. <i>Surface and Coatings Technology</i> , <b>2015</b> , 277, 1-6   | 4.4  | 10 |
| 43 | Uniformly dispersed silicon nanoparticle/carbon nanosphere composites as highly stable lithium-ion battery electrodes. <i>RSC Advances</i> , <b>2015</b> , 5, 17424-17428  | 3.7  | 12 |
| 42 | An elastic carbon layer on echeveria-inspired SnO <sub>2</sub> anode for long-cycle and high-rate lithium ion batteries. <i>Carbon</i> , <b>2015</b> , 94, 539-547   | 10.4 | 34 |
| 41 | An ion exchange mediated shape-preserving strategy for constructing 1-D arrays of porous CoS <sub>1.0365</sub> nanorods for electrocatalytic reduction of triiodide. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 7900-7909        | 13   | 42 |
| 40 | Fullerene coated indium tin oxide counter electrode of Prussian blue electrode for enhanced electrochromic properties. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 139, 44-50  | 6.4  | 6  |
| 39 | Coating lithium titanate with nitrogen-doped carbon by simple refluxing for high-power lithium-ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10250-7   | 9.5  | 57 |
| 38 | Formation of Semimetallic Cobalt Telluride Nanotube Film via Anion Exchange Tellurization Strategy in Aqueous Solution for Electrocatalytic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25914-22              | 9.5  | 57 |
| 37 | Si nanoparticles-nested inverse opal carbon supports for highly stable lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23684-23689  | 13   | 26 |
| 36 | Si/Ti <sub>2</sub> O <sub>3</sub> /Reduced Graphene Oxide Nanocomposite Anodes for Lithium-Ion Batteries with Highly Enhanced Cyclic Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 18483-90                        | 9.5  | 41 |
| 35 | Charge Transfer-Induced Molecular Hole Doping into Thin Film of Metal-Organic Frameworks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 18501-7   | 9.5  | 49 |
| 34 | A polymerized C <sub>60</sub> coating enhancing interfacial stability at three-dimensional LiCoO <sub>2</sub> in high-potential regime. <i>Journal of Power Sources</i> , <b>2015</b> , 298, 1-7   | 8.9  | 18 |
| 33 | Plasma-polymerized C <sub>60</sub> as a functionalized coating layer on fluorine-doped tin oxides for anode materials of lithium-ion batteries. <i>Carbon</i> , <b>2015</b> , 81, 835-838  | 10.4 | 20 |
| 32 | Revisiting Metal Sulfide Semiconductors: A Solution-Based General Protocol for Thin Film Formation, Hall Effect Measurement, and Application Prospects. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5739-5747                       | 15.6 | 51 |

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| 31 | 3D Woven-Like Carbon Micropattern Decorated with Silicon Nanoparticles for Use in Lithium-Ion Batteries. <i>ChemSusChem</i> , <b>2015</b> , 8, 3414-8  | 8.3 | 8   |
| 30 | Coating of sulfur particles with manganese oxide nanowires as a cathode material in lithium-sulfur batteries. <i>Materials Letters</i> , <b>2015</b> , 158, 132-135  | 3.3 | 38  |
| 29 | Three-dimensional silicon/carbon core-shell electrode as an anode material for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 279, 13-20   | 8.9 | 92  |
| 28 | Interfacial Engineering of CdO-CdSe 3D Microarchitectures with in situ Photopolymerized PEDOT for an Enhanced Photovoltaic Performance. <i>Photochemistry and Photobiology</i> , <b>2015</b> , 91, 780-5                           | 3.6 | 8   |
| 27 | Double-layer effect on electrothermal properties of transparent heaters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 1923-1927  | 1.6 | 20  |
| 26 | Electrochemical behavior of a laser microstructured fluorine doped tin oxide anode layer with a plasma pretreatment for 3D battery systems. <i>RSC Advances</i> , <b>2014</b> , 4, 4247-4252                                       | 3.7 | 7   |
| 25 | Al-C hybrid nanoclustered anodes for lithium ion batteries with high electrical capacity and cyclic stability. <i>Chemical Communications</i> , <b>2014</b> , 50, 2837-40  | 5.8 | 40  |
| 24 | A coordination chemistry approach for shape controlled synthesis of indium oxide nanostructures and their photoelectrochemical properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5490-5498                    | 13  | 52  |
| 23 | A facile approach for carburization of anodically grown titania nanotubes: towards metallization of nanotubes. <i>RSC Advances</i> , <b>2014</b> , 4, 32599  | 3.7 | 2   |
| 22 | Effect of micro-patterned fluorine-doped tin oxide films on electrochromic properties of Prussian blue films. <i>Applied Surface Science</i> , <b>2014</b> , 313, 864-869  | 6.7 | 10  |
| 21 | Solution processed high band-gap CuInGaS <sub>2</sub> thin film for solar cell applications. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2014</b> , 22, 122-128   | 6.8 | 58  |
| 20 | Surface modification of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathodes with ZnAl <sub>2</sub> O <sub>4</sub> by a sol-gel method for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2014</b> , 115, 326-331 | 6.7 | 39  |
| 19 | SnO <sub>2</sub> -coated LiCoO <sub>2</sub> cathode material for high-voltage applications in lithium-ion batteries. <i>Solid State Ionics</i> , <b>2014</b> , 256, 89-92  | 3.3 | 27  |
| 18 | Effect of lithium difluoro (oxalato) borate on LiMn <sub>2</sub> O <sub>4</sub> -activated carbon hybrid capacitors. <i>Electronic Materials Letters</i> , <b>2013</b> , 9, 751-754  | 2.9 | 6   |
| 17 | Silicon/copper dome-patterned electrodes for high-performance hybrid supercapacitors. <i>Scientific Reports</i> , <b>2013</b> , 3, 3183  | 4.9 | 52  |
| 16 | Effect of polyimide binder on electrochemical characteristics of surface-modified silicon anode for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2013</b> , 244, 521-526  | 8.9 | 114 |
| 15 | CdS buffer-layer free highly efficient ZnO-CdSe photoelectrochemical cells. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 033906   | 3.4 | 24  |
| 14 | Photoelectrochemistry of solution processed hematite nanoparticles, nanoparticle-chains and nanorods. <i>RSC Advances</i> , <b>2012</b> , 2, 11808   | 3.7 | 10  |

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|----|--|------|----|
| 13 | Synthesis of Boron-Doped C60 Film Using Plasma-Assisted Thermal Evaporation Technique and its Electrochemical Characterizations. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2012</b> , 20, 216-223 | 1.8  | 1  |
| 12 | Fullerene C60 coated silicon nanowires as anode materials for lithium secondary batteries. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 3547-51  | 1.3  | 6  |
| 11 | Surface-Coated Silicon Anodes with Amorphous Carbon Film Prepared by Fullerene C[sub 60] Sputtering. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A660                                       | 3.9  | 12 |
| 10 | Effect of fullerene coating on silicon thin film anodes for lithium rechargeable batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 51-56   | 2.6  | 37 |
| 9  | Electrochemical performance of silicon thin film anodes covered by diamond-like carbon with various surface coating morphologies. <i>Journal of Solid State Electrochemistry</i> , <b>2010</b> , 14, 1247-1253     | 2.6  | 3  |
| 8  | Electrochemical characteristics of semi conductive silicon anode for lithium polymer batteries. <i>Journal of Electroceramics</i> , <b>2010</b> , 24, 308-312  | 1.5  | 20 |
| 7  | Structural and electrochemical properties of fullerene-coated silicon thin film as anode materials for lithium secondary batteries. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 113, 249-254            | 4.4  | 50 |
| 6  | Carbon film covering originated from fullerene C60 on the surface of lithium metal anode for lithium secondary batteries. <i>Journal of Electroceramics</i> , <b>2009</b> , 23, 248-253                            | 1.5  | 22 |
| 5  | Electrical and optical properties of fluorine-doped tin oxide (SnOx:F) thin films deposited on PET by using ECR-MOCVD. <i>Journal of Electroceramics</i> , <b>2009</b> , 23, 506-511                               | 1.5  | 22 |
| 4  | Electrochemical characteristics of amorphous carbon coated silicon electrodes. <i>Korean Journal of Chemical Engineering</i> , <b>2009</b> , 26, 1034-1039   | 2.8  | 5  |
| 3  | Electrochemical characteristics of silicon-metals coated graphites for anode materials of lithium secondary batteries. <i>Journal of Electroceramics</i> , <b>2006</b> , 17, 661-665                               | 1.5  | 16 |
| 2  | Metal/Semiconductor Ohmic and Schottky Contact Interfaces for Stable Li-Metal Electrodes. <i>ACS Energy Letters</i> , 1432-1442  | 20.1 | 9  |
| 1  | A Shape-Variable, Low-Temperature Liquid Metal/Conductive Polymer Aqueous Secondary Battery. <i>Advanced Functional Materials</i> , 2107062  | 15.6 | 3  |