

# Min-Cheol Kim

## 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.

59  
papers

978  
citations

17  
h-index

29  
g-index

61  
ext. papers

1,167  
ext. citations

6.9  
avg, IF

4.32  
L-index

#	Paper	IF	Citations
59	Multifunctional catalytic porous transport layer integrated with NiSe <sub>2</sub> chalcogen compound for high-performance electrochemical energy devices. <i>Applied Surface Science</i> , <b>2022</b> , 590, 153030	6.7	0
58	High-performance free-standing hybrid solid electrolyte membrane combined with Li <sub>6</sub> .28Al <sub>0.24</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> and hexagonal-BN for all-solid-state lithium-based batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 446, 137035	14.7	3
57	Electrochemically active hydroquinone-based redox mediator for flexible energy storage system with improved charge storing ability. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 588, 62-69	9.3	5
56	1T-MoS <sub>2</sub> /carbon nanofiber composite as an interlayer fabricated by an in situ electrochemical fabrication method for lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 857, 158236	5.7	14
55	Hierarchically Ordinated Two-Dimensional MoS <sub>2</sub> Nanosheets on Three-Dimensional Reduced Graphene Oxide Aerogels as Highly Active and Stable Catalysts for Hydrogen Evolution Reaction. <i>Catalysts</i> , <b>2021</b> , 11, 182	4	2
54	Effect of ionic conductivity in polymer-gel electrolytes containing iodine-based redox mediators for efficient, flexible energy storage systems. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 94, 384-389	6.3	4
53	Enhanced electrochemical performance of a selectively formed V <sub>2</sub> O <sub>3</sub> /C composite structure for Li-ion batteries. <i>Electrochimica Acta</i> , <b>2021</b> , 389, 138685	6.7	4
52	Porous SnO nanostructure with a high specific surface area for improved electrochemical performance.. <i>RSC Advances</i> , <b>2020</b> , 10, 10519-10525	3.7	8
51	Enhanced electrochemical performance of MoS/graphene nanosheet nanocomposites.. <i>RSC Advances</i> , <b>2020</b> , 10, 19077-19082	3.7	8
50	Improved electrochemical properties of LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> cathode materials synthesized using micelle structures. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 2233-2240	2.6	2
49	Biomimetic Cathodes Applying Imprinted Carbon Paper with Vortex for Enhanced Oxygen Reduction Reaction of Lithium-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4325-4330	8.3	3
48	Ni <sub>2</sub> P/graphitic carbon nanostructure electrode with superior electrochemical performance. <i>Electrochimica Acta</i> , <b>2020</b> , 341, 136045	6.7	14
47	Polymeric redox mediator as a stable cathode catalyst for lithium-O <sub>2</sub> batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 453, 227850	8.9	8
46	Chemical valence electron-engineered LiNi <sub>0.4</sub> Mn <sub>1.5</sub> MtO <sub>4</sub> (Mt = Co and Fe) cathode materials with high-performance electrochemical properties. <i>Applied Surface Science</i> , <b>2020</b> , 504, 144514	6.7	6
45	Rational Design of Electrochemical Iodine-Based Redox Mediators for Water-Proofed Flexible Fiber Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 2409-2415	8.3	6
44	Synthesis of highly conductive titanium suboxide support materials with superior electrochemical durability for proton exchange membrane fuel cells. <i>Molecular Crystals and Liquid Crystals</i> , <b>2020</b> , 707, 110-117	0.5	0
43	Redox-Mediated Polymer Catalyst for Lithium-Air Batteries with High Round-Trip Efficiency. <i>Catalysts</i> , <b>2020</b> , 10, 1479	4	

42	Facile one-pot synthesis of Ge/TiO nanocomposite structures with improved electrochemical performance. <i>Nanoscale</i> , <b>2019</b> , 11, 17415-17424	7.7	18
41	Surface modified and size-controlled octahedral Cu <sub>2</sub> O nanostructured electrodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 794, 84-93	5.7	15
40	TiO-coated LiCoO electrodes fabricated by a sputtering deposition method for lithium-ion batteries with enhanced electrochemical performance.. <i>RSC Advances</i> , <b>2019</b> , 9, 7903-7907	3.7	3
39	Role of polyvinylpyrrolidone in the electrochemical performance of LiMnO cathode for lithium-ion batteries.. <i>RSC Advances</i> , <b>2019</b> , 9, 10297-10304	3.7	4
38	F-doped Li <sub>1.15</sub> Ni <sub>0.275</sub> Ru <sub>0.575</sub> O <sub>2</sub> cathode materials with long cycle life and improved rate performance. <i>Electrochimica Acta</i> , <b>2019</b> , 326, 135015	6.7	7
37	Pore-controlled polymer membrane with Mn (II) ion trapping effect for high-rate performance LiMn <sub>2</sub> O <sub>4</sub> cathode. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 475-484	2.6	4
36	Stress-relieved Si anode on a porous Cu current collector for high-performance lithium-ion batteries. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 223, 152-156	4.4	4
35	Systematic design of hierarchical Ni <sub>3</sub> S <sub>2</sub> /MoO <sub>2</sub> nanostructures grown on 3D conductive substrate for high-performance pseudocapacitors. <i>Ceramics International</i> , <b>2019</b> , 45, 2670-2675	5.1	8
34	MoS <sub>2</sub> -TiN nanostructured electrodes fabricated using co-sputtering deposition method for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 741, 1048-1054	5.7	3
33	Nature inspired cathodes using high-density carbon papers with an eddy current effect for high-rate performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9550-9560	13	15
32	Molybdenum carbide embedded in carbon nanofiber as a 3D flexible anode with superior stability and high-rate performance for Li-ion batteries. <i>Ceramics International</i> , <b>2018</b> , 44, 7972-7977	5.1	15
31	3D yolk-shell Si@void@CNF nanostructured electrodes with improved electrochemical performance for lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 64, 344-351	6.3	19
30	In-situ synthesis of Ge/Ti <sub>4</sub> O <sub>7</sub> composite with enhanced electrochemical properties. <i>Ceramics International</i> , <b>2018</b> , 44, 663-668	5.1	4
29	Micro-patterned 3D Si electrodes fabricated using an imprinting process for high-performance lithium-ion batteries. <i>Journal of Applied Electrochemistry</i> , <b>2018</b> , 48, 1057-1068	2.6	7
28	Stress Dispersed Cu Metal Anode by Laser Multiscale Patterning for Lithium-Ion Batteries with High Capacity. <i>Metals</i> , <b>2018</b> , 8, 410	2.3	
27	Sea urchin-like Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanostructure as a Li-Ion battery anode with high energy density and improved ionic transport. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 767, 73-80	5.7	9
26	Investigation of the durability of Fe/N-doped mesoporous carbon nanostructure as a non-precious metal catalyst for oxygen reduction reaction in acid medium. <i>Carbon</i> , <b>2018</b> , 140, 189-200	10.4	17
25	A chemically regenerative redox fuel cell using (2,2,6,6-tetramethylpiperidin-1-yl)oxyl redox reaction in acid medium. <i>Journal of Power Sources</i> , <b>2018</b> , 393, 32-36	8.9	4

24	Direct Ethanol Fuel Cells with Superior Ethanol-Tolerant Nonprecious Metal Cathode Catalysts for Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 7609-7618	8.3	21
23	High-Performance Chemically Regenerative Redox Fuel Cells Using a NO <sub>2</sub> /NO Regeneration Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2893-2897	16.4	7
22	3-D Si/carbon nanofiber as a binder/current collector-free anode for lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 49, 105-111	6.3	36
21	High-Performance Chemically Regenerative Redox Fuel Cells Using a NO <sub>3</sub> <sup>-</sup> /NO Regeneration Reaction. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2939-2943	3.6	1
20	Electrochemical catalytic contribution of transition metals at the center of porphyrin macrocycle structures as catalysts for oxygen reduction reaction. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 54, 200-204	6.3	9
19	Sulfur-Doped Porphyrinic Carbon Nanostructures Synthesized with Amorphous MoS <sub>2</sub> for the Oxygen Reduction Reaction in an Acidic Medium. <i>ChemSusChem</i> , <b>2017</b> , 10, 2202-2209	8.3	8
18	Fe/N/S-doped mesoporous carbon nanostructures as electrocatalysts for oxygen reduction reaction in acid medium. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 889-898	21.8	138
17	Porous Cu-rich@Cu <sub>3</sub> Pt alloy catalyst with a low Pt loading for enhanced electrocatalytic reactions. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 691, 26-33	5.7	25
16	3D flexible Si based-composite (Si@Si <sub>3</sub> N <sub>4</sub> )/CNF electrode with enhanced cyclability and high rate capability for lithium-ion batteries. <i>Nano Energy</i> , <b>2016</b> , 27, 545-553	17.1	73
15	In situ formation of MoS <sub>2</sub> /C nanocomposite as an anode for high-performance lithium-ion batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 92259-92266	3.7	10
14	Chemically Regenerative Redox Fuel Cells Using Iron Redox Couples as a Liquid Catalyst with Cocatalysts. <i>ACS Catalysis</i> , <b>2016</b> , 6, 5302-5306	13.1	10
13	Synthesis of hollow carbon nanostructures as a non-precious catalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 805-812	6.7	26
12	In Situ Synthesis and Characterization of Ge Embedded Electrospun Carbon Nanostructures as High Performance Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 7022-9	9.5	53
11	Highly stable TiO <sub>2</sub> coated Li <sub>2</sub> MnO <sub>3</sub> cathode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 304, 119-127	8.9	62
10	Tungsten nitride nanoplates as an anode material for lithium ion batteries. <i>Ceramics International</i> , <b>2016</b> , 42, 1933-1942	5.1	25
9	Synthesis of Pt-Rich@Pt-Ni alloy core-shell nanoparticles using halides. <i>RSC Advances</i> , <b>2015</b> , 5, 8301-8306	3.7	6
8	Two-dimensional nanocomposites based on tungsten oxide nanoplates and graphene nanosheets for high-performance lithium ion batteries. <i>Electrochimica Acta</i> , <b>2015</b> , 163, 132-139	6.7	36
7	Cubic and octahedral Cu <sub>2</sub> O nanostructures as anodes for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23003-23010	13	50

6	Ultrasmall PtSn alloy catalyst for ethanol electro-oxidation reaction. <i>Journal of Power Sources</i> , <b>2015</b> , 275, 557-562	8.9	33
5	Sputtered amorphous thin film nanocomposites as an anode for lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 273, 707-715	8.9	12
4	Carbon nanotube web-based current collectors for high-performance lithium ion batteries. <i>Materials Today Communications</i> , <b>2015</b> , 4, 149-155	2.5	9
3	Improved pseudocapacitive performance of well-defined WO <sub>3</sub> x nanoplates. <i>Ceramics International</i> , <b>2015</b> , 41, 4989-4995	5.1	25
2	Improved Lithium Ion Behavior Properties of TiO <sub>2</sub> @Graphitic-like Carbon Core@Shell Nanostructure. <i>Electrochimica Acta</i> , <b>2014</b> , 147, 241-249	6.7	24
1	Mesoporous molybdenum nitride nanobelts as an anode with improved electrochemical properties in lithium ion batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 269, 534-541	8.9	39