

Jiwoong Bae

List of Publications by Year in descending order

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31
papers

2,983
citations

331259

21
h-index

414034

32
g-index

32
all docs

32
docs citations

32
times ranked

3593
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogels and Hydrogel-Derived Materials for Energy and Water Sustainability. <i>Chemical Reviews</i> , 2020, 120, 7642-7707.	23.0	646
2	A 3D Nanostructured Hydrogelâ€‘Frameworkâ€‘Derived Highâ€‘Performance Composite Polymer Lithiumâ€‘Ion Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2096-2100.	7.2	484
3	Synergistic Energy Nanoconfinement and Water Activation in Hydrogels for Efficient Solar Water Desalination. <i>ACS Nano</i> , 2019, 13, 7913-7919.	7.3	354
4	Designing 3D nanostructured garnet frameworks for enhancing ionic conductivity and flexibility in composite polymer electrolytes for lithium batteries. <i>Energy Storage Materials</i> , 2018, 15, 46-52.	9.5	203
5	Nanostructured Host Materials for Trapping Sulfur in Rechargeable Liâ€‘S Batteries: Structure Design and Interfacial Chemistry. <i>Small Methods</i> , 2018, 2, 1700279.	4.6	201
6	Nanostructured Functional Hydrogels as an Emerging Platform for Advanced Energy Technologies. <i>Advanced Materials</i> , 2018, 30, e1801796.	11.1	177
7	Functional Hydrogels for Next-Generation Batteries and Supercapacitors. <i>Trends in Chemistry</i> , 2019, 1, 335-348.	4.4	158
8	Polar polymerâ€‘solvent interaction derived favorable interphase for stable lithium metal batteries. <i>Energy and Environmental Science</i> , 2019, 12, 3319-3327.	15.6	122
9	Redistributing Liâ€‘ion Flux by Parallely Aligned Holey Nanosheets for Dendriteâ€‘Free Li Metal Anodes. <i>Advanced Materials</i> , 2020, 32, e2003920.	11.1	81
10	High-performance ultra-thin film solid oxide fuel cell using anodized-aluminum-oxide supporting structure. <i>Electrochemistry Communications</i> , 2014, 47, 1-4.	2.3	64
11	High-performance thin film solid oxide fuel cells with scandia-stabilized zirconia (ScSZ) thin film electrolyte. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 15704-15708.	3.8	54
12	High-performance magnesium metal batteries <i>via</i> switching the passivation film into a solid electrolyte interphase. <i>Energy and Environmental Science</i> , 2021, 14, 4391-4399.	15.6	49
13	Influence of the grain size of samaria-doped ceria cathodic interlayer for enhanced surface oxygen kinetics of low-temperature solid oxide fuel cell. <i>Journal of the European Ceramic Society</i> , 2014, 34, 3763-3768.	2.8	41
14	Grain boundary blocking of ionic conductivity in nanocrystalline yttria-doped ceria thin films. <i>Scripta Materialia</i> , 2015, 104, 45-48.	2.6	36
15	A 3D Nanostructured Hydrogelâ€‘Frameworkâ€‘Derived Highâ€‘Performance Composite Polymer Lithiumâ€‘Ion Electrolyte. <i>Angewandte Chemie</i> , 2018, 130, 2118-2122.	1.6	34
16	Nanostructuring methods for enhancing light absorption rate of Si-based photovoltaic devices: A review. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2014, 1, 67-74.	2.7	29
17	A General Strategy of Anion-Rich High-Concentration Polymeric Interlayer for High-Voltage, All-Solid-State Batteries. <i>Nano Letters</i> , 2021, 21, 1184-1191.	4.5	29
18	Liquid Alloy Enabled Solidâ€‘State Batteries for Conformal Electrodeâ€‘Electrolyte Interfaces. <i>Advanced Functional Materials</i> , 2021, 31, 2010863.	7.8	29

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19	A thermally self-sustaining solid oxide fuel cell system at ultra-low operating temperature (319Â°C). <i>Energy</i> , 2016, 104, 107-113.	4.5	25
20	Thermally-Induced Dopant Segregation Effects on the Space Charge Layer and Ionic Conductivity of Nanocrystalline Gadolinia-Doped Ceria. <i>Journal of the Electrochemical Society</i> , 2016, 163, F919-F926.	1.3	25
21	Yttria-stabilized zirconia thin films with restrained columnar grains for oxygen ion conducting electrolytes. <i>Ceramics International</i> , 2016, 42, 16703-16709.	2.3	23
22	Polyeutectic-based stable and effective electrolytes for high-performance energy storage systems. <i>Energy and Environmental Science</i> , 2021, 14, 931-939.	15.6	21
23	Influence of deposition temperature on the microstructure of thin-film electrolyte for SOFCs with a nanoporous AAO support structure. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10199-10207.	3.8	19
24	Single-chamber fabrication of high-performance low-temperature solid oxide fuel cells with grain-controlled functional layers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2029-2036.	5.2	18
25	Three-dimensional hexagonal GDC interlayer for area enhancement of low-temperature solid oxide fuel cells. <i>Surface and Coatings Technology</i> , 2015, 279, 54-59.	2.2	17
26	Post-Annealing of Thin-Film Yttria Stabilized Zirconia Electrolytes for Anode-Supported Low-Temperature Solid Oxide Fuel Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 9294-9299.	0.9	12
27	Optimized antireflective silicon nanostructure arrays using nanosphere lithography. <i>Nanotechnology</i> , 2016, 27, 215302.	1.3	10
28	Enhanced Oxygen Reduction Reaction in Nanocrystalline Surface of Samaria-Doped Ceria via Randomly Distributed Dopants. <i>Journal of the American Ceramic Society</i> , 2016, 99, 4050-4056.	1.9	8
29	Performance stability of strontium-doped lanthanum cobaltite ceramic cathode synthesized by a wet chemical method. <i>Ceramics International</i> , 2016, 42, 12853-12859.	2.3	8
30	Superior La _{1-x} Sr _x CoO ₃ ceramic electrode fabrication by MOCSO for low-temperature SOFC application. <i>Surface and Coatings Technology</i> , 2017, 311, 157-163.	2.2	1
31	Titelbild: A 3D Nanostructured Hydrogel-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte (<i>Angew. Chem.</i> 8/2018). <i>Angewandte Chemie</i> , 2018, 130, 2025-2025.	1.6	1