

Jongkook Hwang

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.

42
papers

2,272
citations

26
h-index

45
g-index

45
ext. papers

2,629
ext. citations

12.7
avg, IF

5.36
L-index

#	Paper	IF	Citations
42	A review of synthesis strategies for MOF-derived single atom catalysts. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 1104-1116	2.8	6
41	Effects of functional supports on efficiency and stability of atomically dispersed noble-metal electrocatalysts. <i>EnergyChem</i> , 2021 , 3, 100054	36.9	8
40	Graphene-Based Two-Dimensional Mesoporous Materials: Synthesis and Electrochemical Energy Storage Applications. <i>Materials</i> , 2021 , 14,	3.5	6
39	Facile approach for the synthesis of spherical mesoporous silica nanoparticles from sodium silicate. <i>Materials Letters</i> , 2021 , 283, 128765	3.3	10
38	Recent advances in the synthesis of mesoporous materials and their application to lithium-ion batteries and hybrid supercapacitors. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 227-247	2.8	10
37	Polymer Interface-Dependent Morphological Transition toward Two-Dimensional Porous Inorganic Nanocoins as an Ultrathin Multifunctional Layer for Stable Lithium-Sulfur Batteries. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15644-15652	16.4	6
36	Interaction Mediator Assisted Synthesis of Mesoporous Molybdenum Carbide: Mo-Valence State Adjustment for Optimizing Hydrogen Evolution. <i>ACS Nano</i> , 2020 , 14, 4988-4999	16.7	50
35	Polymer Interfacial Self-Assembly Guided Two-Dimensional Engineering of Hierarchically Porous Carbon Nanosheets. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9250-9257	16.4	58
34	Controlling the morphology of metal-organic frameworks and porous carbon materials: metal oxides as primary architecture-directing agents. <i>Chemical Society Reviews</i> , 2020 , 49, 3348-3422	58.5	104
33	Polymer blend directed anisotropic self-assembly toward mesoporous inorganic bowls and nanosheets. <i>Science Advances</i> , 2020 , 6, eabb3814	14.3	26
32	Synthesis of ordered mesoporous silica with various pore structures using high-purity silica extracted from rice husk. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 81, 135-143	6.3	20
31	Microwave-assisted solvothermal synthesis of sodium metal fluoride (Na _x MF _y) nanopowders. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 6475-6479	3.8	3
30	Micro-Blooming: Hierarchically Porous Nitrogen-Doped Carbon Flowers Derived from Metal-Organic Mesocrystals. <i>Small</i> , 2019 , 15, e1901986	11	26
29	Water-in-Water Pickering Emulsion Stabilized by Polydopamine Particles and Cross-Linking. <i>Biomacromolecules</i> , 2019 , 20, 204-211	6.9	33
28	Controlled Leaching Derived Synthesis of Atomically Dispersed/Clustered Gold on Mesoporous Cobalt Oxide for Enhanced Oxygen Evolution Reaction Activity. <i>Small Methods</i> , 2019 , 3, 1800293	12.8	13
27	Approaching Ultrastable High-Rate Li-S Batteries through Hierarchically Porous Titanium Nitride Synthesized by Multiscale Phase Separation. <i>Advanced Materials</i> , 2019 , 31, e1806547	24	105
26	Toward Ultimate Control of Radical Polymerization: Functionalized Metal-Organic Frameworks as a Robust Environment for Metal-Catalyzed Polymerizations. <i>Chemistry of Materials</i> , 2018 , 30, 2983-2994	9.6	34

25	Morphogenesis of Metal-Organic Mesocrystals Mediated by Double Hydrophilic Block Copolymers. <i>Journal of the American Chemical Society</i> , 2018 , 140, 2947-2956	16.4	52
24	Multiscale Phase Separations for Hierarchically Ordered Macro/Mesostructured Metal Oxides. <i>Advanced Materials</i> , 2018 , 30, 1703829	24	45
23	Solvent mediated morphology control of zinc MOFs as carbon templates for application in supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23521-23530	13	39
22	Generalized Access to Mesoporous Inorganic Particles and Hollow Spheres from Multicomponent Polymer Blends. <i>Advanced Materials</i> , 2018 , 30, e1801127	24	31
21	Simple synthesis of multiple length-scale structured NbO with functional macrodomain-integrated mesoporous frameworks. <i>Chemical Communications</i> , 2017 , 53, 4100-4103	5.8	9
20	Free radical and RAFT polymerization of vinyl esters in metal-organic-frameworks. <i>Polymer Chemistry</i> , 2017 , 8, 6204-6208	4.9	38
19	Ammonium Fluoride Mediated Synthesis of Anhydrous Metal Fluoride-Mesoporous Carbon Nanocomposites for High-Performance Lithium Ion Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35180-35190	9.5	49
18	Direct access to aggregation-free and small intermetallic nanoparticles in ordered, large-pore mesoporous carbon for an electrocatalyst. <i>RSC Advances</i> , 2016 , 6, 88255-88264	3.7	10
17	Ordered-mesoporous Nb ₂ O ₅ /carbon composite as a sodium insertion material. <i>Nano Energy</i> , 2015 , 16, 62-70	17.1	104
16	Facile Synthesis of Nb ₂ O ₅ @Carbon Core-Shell Nanocrystals with Controlled Crystalline Structure for High-Power Anodes in Hybrid Supercapacitors. <i>ACS Nano</i> , 2015 , 9, 7497-505	16.7	340
15	Mesoporous Ge/GeO ₂ /Carbon Lithium-Ion Battery Anodes with High Capacity and High Reversibility. <i>ACS Nano</i> , 2015 , 9, 5299-309	16.7	141
14	Direct confinement of Ru nanoparticles inside nanochannels of large pore mesoporous aluminosilicate for Fischer-Tropsch synthesis. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23725-23731	13	5
13	One pot synthesis of mesoporous boron nitride using polystyrene-b-poly(ethylene oxide) block copolymer. <i>RSC Advances</i> , 2015 , 5, 6528-6535	3.7	21
12	Designing a Highly Active Metal-Free Oxygen Reduction Catalyst in Membrane Electrode Assemblies for Alkaline Fuel Cells: Effects of Pore Size and Doping-Site Position. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 9230-4	16.4	105
11	Designing a Highly Active Metal-Free Oxygen Reduction Catalyst in Membrane Electrode Assemblies for Alkaline Fuel Cells: Effects of Pore Size and Doping-Site Position. <i>Angewandte Chemie</i> , 2015 , 127, 9362-9366	3.6	9
10	Direct access to hierarchically porous inorganic oxide materials with three-dimensionally interconnected networks. <i>Journal of the American Chemical Society</i> , 2014 , 136, 16066-72	16.4	98
9	Block Copolymer Directed Ordered Mesostructured TiNb ₂ O ₇ Multimetallic Oxide Constructed of Nanocrystals as High Power Li-Ion Battery Anodes. <i>Chemistry of Materials</i> , 2014 , 26, 3508-3514	9.6	137
8	Block-Copolymer-Assisted One-Pot Synthesis of Ordered Mesoporous WO ₃ /Carbon Nanocomposites as High-Rate-Performance Electrodes for Pseudocapacitors. <i>Advanced Functional Materials</i> , 2013 , 23, 3747-3754	15.6	126

7	Ordered mesoporous tungsten suboxide counter electrode for highly efficient iodine-free electrolyte-based dye-sensitized solar cells. <i>ChemSusChem</i> , 2013 , 6, 299-307	8.3	25
6	One-pot synthesis of tin-embedded carbon/silica nanocomposites for anode materials in lithium-ion batteries. <i>ACS Nano</i> , 2013 , 7, 1036-44	16.7	121
5	Ordered mesoporous carbon nanochannel reactors for high-performance Fischer-Tropsch synthesis. <i>Chemical Communications</i> , 2013 , 49, 5141-3	5.8	52
4	Preparation Method of Co ₃ O ₄ Nanoparticles Using Ordered Mesoporous Carbons as a Template and Their Application for Fischer-Tropsch Synthesis. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1773-1779 ^{3.8}	3.8	33
3	One-pot synthesis of intermetallic electrocatalysts in ordered, large-pore mesoporous carbon/silica toward formic acid oxidation. <i>ACS Nano</i> , 2012 , 6, 6870-81	16.7	85
2	Easy access to highly crystalline mesoporous transition-metal oxides with controllable uniform large pores by using block copolymers synthesized via atom transfer radical polymerization. <i>Microporous and Mesoporous Materials</i> , 2011 , 143, 149-156	5.3	28
1	Well-dispersed Pd ₃ Pt ₁ alloy nanoparticles in large pore sized mesocellular carbon foam for improved methanol-tolerant oxygen reduction reaction. <i>Carbon</i> , 2011 , 49, 1108-1117	10.4	45