

Jinwoo Lee

List of Publications by Year in descending order

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247
papers

24,237
citations

5558

82
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8370

147
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265
all docs

265
docs citations

265
times ranked

27036
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress in the Synthesis of Porous Carbon Materials. <i>Advanced Materials</i> , 2006, 18, 2073-2094.	11.1	1,917
2	Magnetic Fluorescent Delivery Vehicle Using Uniform Mesoporous Silica Spheres Embedded with Monodisperse Magnetic and Semiconductor Nanocrystals. <i>Journal of the American Chemical Society</i> , 2006, 128, 688-689.	6.6	834
3	Synthesis of a new mesoporous carbon and its application to electrochemical double-layer capacitors. <i>Chemical Communications</i> , 1999, , 2177-2178.	2.2	716
4	Direct access to thermally stable and highly crystalline mesoporous transition-metal oxides with uniform pores. <i>Nature Materials</i> , 2008, 7, 222-228.	13.3	571
5	Versatile Strategy for Tuning ORR Activity of a Single Fe-N ₄ Site by Controlling Electron-Withdrawing/Donating Properties of a Carbon Plane. <i>Journal of the American Chemical Society</i> , 2019, 141, 6254-6262.	6.6	509
6	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, 7497-7505.	7.3	411
7	Electric Double-Layer Capacitor Performance of a New Mesoporous Carbon. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2507.	1.3	405
8	Fe ₃ O ₄ Nanoparticles Confined in Mesocellular Carbon Foam for High Performance Anode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2011, 21, 2430-2438.	7.8	403
9	Large-Scale Synthesis of Uniform and Crystalline Magnetite Nanoparticles Using Reverse Micelles as Nanoreactors under Reflux Conditions. <i>Advanced Functional Materials</i> , 2005, 15, 503-509.	7.8	393
10	Development of a New Mesoporous Carbon Using an HMS Aluminosilicate Template. <i>Advanced Materials</i> , 2000, 12, 359-362.	11.1	385
11	Advanced Hybrid Supercapacitor Based on a Mesoporous Niobium Pentoxide/Carbon as High-Performance Anode. <i>ACS Nano</i> , 2014, 8, 8968-8978.	7.3	380
12	Synthesis of new nanoporous carbon materials using nanostructured silica materials as templates. <i>Journal of Materials Chemistry</i> , 2004, 14, 478.	6.7	379
13	Large-Scale Synthesis of TiO ₂ Nanorods via Nonhydrolytic Sol-Gel Ester Elimination Reaction and Their Application to Photocatalytic Inactivation of E.coli. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15297-15302.	1.2	379
14	A Comprehensive Review of Materials with Catalytic Effects in Li-S Batteries: Enhanced Redox Kinetics. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18746-18757.	7.2	379
15	High-Performance Sodium-Ion Hybrid Supercapacitor Based on Nb ₂ O ₅ @Carbon Core-Shell Nanoparticles and Reduced Graphene Oxide Nanocomposites. <i>Advanced Functional Materials</i> , 2016, 26, 3711-3719.	7.8	363
16	Simple Synthesis of Functionalized Superparamagnetic Magnetite/Silica Core/Shell Nanoparticles and their Application as Magnetically Separable High-Performance Biocatalysts. <i>Small</i> , 2008, 4, 143-152.	5.2	351
17	Modified carbon nitride nanozyme as bifunctional glucose oxidase-peroxidase for metal-free bioinspired cascade photocatalysis. <i>Nature Communications</i> , 2019, 10, 940.	5.8	349
18	Enhancing Stability of Perovskite Solar Cells to Moisture by the Facile Hydrophobic Passivation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17330-17336.	4.0	302

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19	Fabrication of Novel Mesocellular Carbon Foams with Uniform Ultralarge Mesopores. <i>Journal of the American Chemical Society</i> , 2001, 123, 5146-5147.	6.6	276
20	Investigation of the Support Effect in Atomically Dispersed Pt on WO ₃ for Utilization of Pt in the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16038-16042.	7.2	271
21	Highly Improved Rate Capability for a Lithium-Ion Battery Nano-Li ₄ Ti ₅ O ₁₂ Negative Electrode via Carbon-Coated Mesoporous Uniform Pores with a Simple Self-Assembly Method. <i>Advanced Functional Materials</i> , 2011, 21, 4349-4357.	7.8	263
22	Generalized Fabrication of Multifunctional Nanoparticle Assemblies on Silica Spheres. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4789-4793.	7.2	227
23	Platinum-free tungsten carbides as an efficient counter electrode for dye sensitized solar cells. <i>Chemical Communications</i> , 2010, 46, 8600.	2.2	215
24	Simple Fabrication of a Highly Sensitive and Fast Glucose Biosensor Using Enzymes Immobilized in Mesocellular Carbon Foam. <i>Advanced Materials</i> , 2005, 17, 2828-2833.	11.1	202
25	Development of high-performance supercapacitor electrodes using novel ordered mesoporous tungsten oxide materials with high electrical conductivity. <i>Chemical Communications</i> , 2011, 47, 1021-1023.	2.2	197
26	Inorganic Rubidium Cation as an Enhancer for Photovoltaic Performance and Moisture Stability of HC(NH ₂) ₂ PbI ₃ Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1605988.	7.8	194
27	A mini review of designed mesoporous materials for energy-storage applications: from electric double-layer capacitors to hybrid supercapacitors. <i>Nanoscale</i> , 2016, 8, 7827-7833.	2.8	192
28	Crosslinked enzyme aggregates in hierarchically-ordered mesoporous silica: A simple and effective method for enzyme stabilization. <i>Biotechnology and Bioengineering</i> , 2007, 96, 210-218.	1.7	187
29	Simple Synthesis of Hierarchically Ordered Mesocellular Mesoporous Silica Materials Hosting Crosslinked Enzyme Aggregates. <i>Small</i> , 2005, 1, 744-753.	5.2	184
30	Highly active heterogeneous Fenton catalyst using iron oxide nanoparticles immobilized in alumina coated mesoporous silica. <i>Chemical Communications</i> , 2006, , 463-465.	2.2	180
31	Ordered Mesoporous SnO ₂ -Based Photoanodes for High-Performance Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22032-22037.	1.5	174
32	Heme Cofactor-Resembling Fe-N Single Site Embedded Graphene as Nanozymes to Selectively Detect H ₂ O ₂ with High Sensitivity. <i>Advanced Functional Materials</i> , 2020, 30, 1905410.	7.8	171
33	Cu-Pd alloy nanoparticles as highly selective catalysts for efficient electrochemical reduction of CO ₂ to CO. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 82-88.	10.8	167
34	Mesoporous Ge/GeO ₂ /Carbon Lithium-Ion Battery Anodes with High Capacity and High Reversibility. <i>ACS Nano</i> , 2015, 9, 5299-5309.	7.3	159
35	Approaching Ultrastable High-Rate Li-S Batteries through Hierarchically Porous Titanium Nitride Synthesized by Multiscale Phase Separation. <i>Advanced Materials</i> , 2019, 31, e1806547.	11.1	155
36	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.	3.2	154

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37	N- and B-Codoped Graphene: A Strong Candidate To Replace Natural Peroxidase in Sensitive and Selective Bioassays. <i>ACS Nano</i> , 2019, 13, 4312-4321.	7.3	153
38	Selective CO ₂ reduction system. <i>Energy and Environmental Science</i> , 2015, 8, 3597-3604.	15.6	152
39	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.	7.8	145
40	Development of a high-performance anode for lithium ion batteries using novel ordered mesoporous tungsten oxide materials with high electrical conductivity. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 11060.	1.3	141
41	Preparation of a Magnetically Switchable Bio-electrocatalytic System Employing Cross-linked Enzyme Aggregates in Magnetic Mesocellular Carbon Foam. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7427-7432.	7.2	137
42	Direct synthesis of uniform mesoporous carbons from the carbonization of as-synthesized silica/triblock copolymer nanocomposites. <i>Carbon</i> , 2004, 42, 2711-2719.	5.4	134
43	Mechanically Recoverable and Highly Efficient Perovskite Solar Cells: Investigation of Intrinsic Flexibility of Organic-Inorganic Perovskite. <i>Advanced Energy Materials</i> , 2015, 5, 1501406.	10.2	131
44	Filtration-Free Recyclable Catalytic Asymmetric Dihydroxylation Using a Ligand Immobilized on Magnetic Mesocellular Mesoporous Silica. <i>Advanced Synthesis and Catalysis</i> , 2006, 348, 41-46.	2.1	130
45	One-Pot Synthesis of Tin-Embedded Carbon/Silica Nanocomposites for Anode Materials in Lithium-Ion Batteries. <i>ACS Nano</i> , 2013, 7, 1036-1044.	7.3	130
46	Unbiased Sunlight-Driven Artificial Photosynthesis of Carbon Monoxide from CO ₂ Using a ZnTe-Based Photocathode and a Perovskite Solar Cell in Tandem. <i>ACS Nano</i> , 2016, 10, 6980-6987.	7.3	128
47	Ordered Mesoporous Titanium Nitride as a Promising Carbon-Free Cathode for Aprotic Lithium-Oxygen Batteries. <i>ACS Nano</i> , 2017, 11, 1736-1746.	7.3	128
48	Structural Design of Amorphous CoMoP _x with Abundant Active Sites and Synergistic Catalysis Effect for Effective Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2003889.	7.8	128
49	Ordered-mesoporous Nb ₂ O ₅ /carbon composite as a sodium insertion material. <i>Nano Energy</i> , 2015, 16, 62-70.	8.2	124
50	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, 9230-9234.	7.2	118
51	General Synthesis of N-Doped Macroporous Graphene-Encapsulated Mesoporous Metal Oxides and Their Application as New Anode Materials for Sodium-Ion Hybrid Supercapacitors. <i>Advanced Functional Materials</i> , 2017, 27, 1603921.	7.8	118
52	A tailored TiO ₂ electron selective layer for high-performance flexible perovskite solar cells via low temperature UV process. <i>Nano Energy</i> , 2016, 28, 380-389.	8.2	116
53	Soft-template synthesis of mesoporous non-precious metal catalyst with Fe-N x /C active sites for oxygen reduction reaction in fuel cells. <i>Applied Catalysis B: Environmental</i> , 2018, 222, 191-199.	10.8	115
54	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.	6.6	115

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55	Fabrication of Nanoporous Nanocomposites Entrapping Fe ₃ O ₄ Magnetic Nanoparticles and Oxidases for Colorimetric Biosensing. <i>Chemistry - A European Journal</i> , 2011, 17, 10700-10707.	1.7	114
56	Functional mesoporous materials for energy applications: solar cells, fuel cells, and batteries. <i>Nanoscale</i> , 2013, 5, 4584.	2.8	114
57	Fabrication of a novel polypyrrole/poly(methyl methacrylate) coaxial nanocable using mesoporous silica as a nanoreactor. <i>Chemical Communications</i> , 2001, , 83-84.	2.2	113
58	Carbonate-coordinated cobalt co-catalyzed BiVO ₄ /WO ₃ composite photoanode tailored for CO ₂ reduction to fuels. <i>Nano Energy</i> , 2015, 15, 153-163.	8.2	113
59	Pt-Decorated Magnetic Nanozymes for Facile and Sensitive Point-of-Care Bioassay. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35133-35140.	4.0	113
60	Soft-Template Simple Synthesis of Ordered Mesoporous Titanium Nitride-Carbon Nanocomposite for High Performance Dye-Sensitized Solar Cell Counter Electrodes. <i>Chemistry of Materials</i> , 2012, 24, 1575-1582.	3.2	112
61	Direct Access to Hierarchically Porous Inorganic Oxide Materials with Three-Dimensionally Interconnected Networks. <i>Journal of the American Chemical Society</i> , 2014, 136, 16066-16072.	6.6	111
62	Simple synthesis of mesoporous carbon with magnetic nanoparticles embedded in carbon rods. <i>Carbon</i> , 2005, 43, 2536-2543.	5.4	109
63	Large-pore sized mesoporous carbon electrocatalyst for efficient dye-sensitized solar cells. <i>Chemical Communications</i> , 2010, 46, 2136.	2.2	109
64	Block copolymer directed synthesis of mesoporous TiO ₂ for dye-sensitized solar cells. <i>Soft Matter</i> , 2009, 5, 134-139.	1.2	108
65	A Magnetically Separable, Highly Stable Enzyme System Based on Nanocomposites of Enzymes and Magnetic Nanoparticles Shipped in Hierarchically Ordered, Mesocellular, Mesoporous Silica. <i>Small</i> , 2005, 1, 1203-1207.	5.2	106
66	Improvement of desolvation and resilience of alginate binders for Si-based anodes in a lithium ion battery by calcium-mediated cross-linking. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25628-25635.	1.3	106
67	Rational Design of TiC-Supported Single-Atom Electrocatalysts for Hydrogen Evolution and Selective Oxygen Reduction Reactions. <i>ACS Energy Letters</i> , 2019, 4, 126-132.	8.8	104
68	Highly efficient colorimetric detection of target cancer cells utilizing superior catalytic activity of graphene oxide@magnetic-platinum nanohybrids. <i>Nanoscale</i> , 2014, 6, 1529-1536.	2.8	103
69	Degradation mechanism of electrocatalyst during long-term operation of PEMFC. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 8974-8981.	3.8	102
70	A facile synthesis of bimodal mesoporous silica and its replication for bimodal mesoporous carbon. Electronic supplementary information (ESI) available: experimental procedure and Figs. S1-S4. See http://www.rsc.org/suppdata/cc/b3/b301535a/ . <i>Chemical Communications</i> , 2003, , 1138-1139.	2.2	100
71	Investigation of Pseudocapacitive Charge-Storage Behavior in Highly Conductive Ordered Mesoporous Tungsten Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11880-11886.	1.5	100
72	Synergistic Effect of Molecular-Type Electrocatalysts with Ultrahigh Pore Volume Carbon Microspheres for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2018, 12, 6013-6022.	7.3	100

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73	Highly Efficient and Durable Quantum Dot Sensitized ZnO Nanowire Solar Cell Using Noble-Metal-Free Counter Electrode. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22018-22024.	1.5	99
74	One-Pot Synthesis of Intermetallic Electrocatalysts in Ordered, Large-Pore Mesoporous Carbon/Silica toward Formic Acid Oxidation. <i>ACS Nano</i> , 2012, 6, 6870-6881.	7.3	98
75	TiO ₂ nanodisks designed for Li-ion batteries: a novel strategy for obtaining an ultrathin and high surface area anode material at the ice interface. <i>Energy and Environmental Science</i> , 2013, 6, 2932.	15.6	97
76	Awakening Solar Water-Splitting Activity of ZnFe ₂ O ₄ Nanorods by Hybrid Microwave Annealing. <i>Advanced Energy Materials</i> , 2015, 5, 1401933.	10.2	95
77	Simple Synthesis of Uniform Mesoporous Carbons with Diverse Structures from Mesostructured Polymer/Silica Nanocomposites. <i>Chemistry of Materials</i> , 2004, 16, 3323-3330.	3.2	94
78	Simple synthesis of hierarchically structured partially graphitized carbon by emulsion/block-copolymer co-template method for high power supercapacitors. <i>Carbon</i> , 2013, 64, 391-402.	5.4	94
79	Ferrocene-derivatized ordered mesoporous carbon as high performance counter electrodes for dye-sensitized solar cells. <i>Carbon</i> , 2010, 48, 3715-3720.	5.4	92
80	A Comprehensive Review of Materials with Catalytic Effects in Li-S Batteries: Enhanced Redox Kinetics. <i>Angewandte Chemie</i> , 2019, 131, 18920-18931.	1.6	90
81	Selective charge transfer to dioxygen on KPF ₆ -modified carbon nitride for photocatalytic synthesis of H ₂ O ₂ under visible light. <i>Journal of Catalysis</i> , 2018, 357, 51-58.	3.1	89
82	Spontaneous Generation of H ₂ O ₂ and Hydroxyl Radical through O ₂ Reduction on Copper Phosphide under Ambient Aqueous Condition. <i>Environmental Science & Technology</i> , 2019, 53, 2918-2925.	4.6	88
83	Simple fabrication of flexible electrodes with high metal-oxide content: electrospun reduced tungsten oxide/carbon nanofibers for lithium ion battery applications. <i>Nanoscale</i> , 2014, 6, 10147-10155.	2.8	82
84	Ultrafast synthesis of MoS ₂ or WS ₂ -reduced graphene oxide composites via hybrid microwave annealing for anode materials of lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 295, 228-234.	4.0	82
85	Programmed Nanoparticle-Loaded Nanoparticles for Deep-Penetrating 3D Cancer Therapy. <i>Advanced Materials</i> , 2018, 30, e1707557.	11.1	82
86	Low-cost and facile synthesis of mesocellular carbon foams. <i>Chemical Communications</i> , 2002, , 2674-2675.	2.2	81
87	Interaction Mediator Assisted Synthesis of Mesoporous Molybdenum Carbide: Mo-Valence State Adjustment for Optimizing Hydrogen Evolution. <i>ACS Nano</i> , 2020, 14, 4988-4999.	7.3	80
88	Highly Crystalline Inverse Opal Transition Metal Oxides via a Combined Assembly of Soft and Hard Chemistries. <i>Journal of the American Chemical Society</i> , 2008, 130, 8882-8883.	6.6	79
89	Low-cost electrospun WC/C composite nanofiber as a powerful platinum-free counter electrode for dye sensitized solar cell. <i>Nano Energy</i> , 2014, 9, 392-400.	8.2	79
90	Selective electrocatalysis imparted by metal-insulator transition for durability enhancement of automotive fuel cells. <i>Nature Catalysis</i> , 2020, 3, 639-648.	16.1	79

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91	Magnetic mesoporous materials for removal of environmental wastes. <i>Journal of Hazardous Materials</i> , 2011, 192, 1140-1147.	6.5	78
92	Ordered mesoporous WO ₃ possessing electronically conductive framework comparable to carbon framework toward long-term stable cathode supports for fuel cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 7416.	6.7	77
93	Magnetite/mesocellular carbon foam as a magnetically recoverable fenton catalyst for removal of phenol and arsenic. <i>Chemosphere</i> , 2012, 89, 1230-1237.	4.2	76
94	How g-C ₃ N ₄ Works and Is Different from TiO ₂ as an Environmental Photocatalyst: Mechanistic View. <i>Environmental Science & Technology</i> , 2020, 54, 497-506.	4.6	76
95	Controlling Nanoparticle Location via Confined Assembly in Electrospun Block Copolymer Nanofibers. <i>Small</i> , 2008, 4, 2067-2073.	5.2	75
96	A Highly Efficient Electrochemical Biosensing Platform by Employing Conductive Nanocomposite Entrapping Magnetic Nanoparticles and Oxidase in Mesoporous Carbon Foam. <i>Advanced Functional Materials</i> , 2011, 21, 2868-2875.	7.8	75
97	Reverse Micelle Synthesis of Colloidal Nickel-Manganese Layered Double Hydroxide Nanosheets and Their Pseudocapacitive Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 14880-14884.	1.7	75
98	Ordered mesoporous silica nanoparticles with and without embedded iron oxide nanoparticles: structure evolution during synthesis. <i>Journal of Materials Chemistry</i> , 2010, 20, 7807.	6.7	74
99	Mesoporous tungsten oxynitride as electrocatalyst for promoting redox reactions of vanadium redox couple and performance of vanadium redox flow battery. <i>Applied Surface Science</i> , 2018, 429, 187-195.	3.1	74
100	Ordered mesoporous Zn-doped SnO ₂ synthesized by exotemplating for efficient dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 2529.	15.6	72
101	Highly Efficient Enzyme Immobilization and Stabilization within Meso-Structured Onion-Like Silica for Biodiesel Production. <i>Chemistry of Materials</i> , 2012, 24, 924-929.	3.2	70
102	Development of Highly Stable and Mass Transfer-Enhanced Cathode Catalysts: Support-Free Electrospun Intermetallic FePt Nanotubes for Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1402093.	10.2	70
103	One-dimensional crosslinked enzyme aggregates in SBA-15: Superior catalytic behavior to conventional enzyme immobilization. <i>Microporous and Mesoporous Materials</i> , 2008, 111, 18-23.	2.2	69
104	Ordered Mesoporous Carbon Electrodes for Li-O ₂ Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 13426-13431.	4.0	69
105	Multiscale Phase Separations for Hierarchically Ordered Macro/Mesostructured Metal Oxides. <i>Advanced Materials</i> , 2018, 30, 1703829.	11.1	67
106	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33835-33843.	4.0	67
107	Palladium oxide as a novel oxygen evolution catalyst on BiVO ₄ photoanode for photoelectrochemical water splitting. <i>Journal of Catalysis</i> , 2014, 317, 126-134.	3.1	65
108	Heterogeneous asymmetric nitro-Mannich reaction using a bis(oxazoline) ligand grafted on mesoporous silica. <i>Tetrahedron: Asymmetry</i> , 2004, 15, 2595-2598.	1.8	62

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109	Ammonium Fluoride Mediated Synthesis of Anhydrous Metal Fluoride@Mesoporous Carbon Nanocomposites for High-Performance Lithium Ion Battery Cathodes. ACS Applied Materials & Interfaces, 2016, 8, 35180-35190.	4.0	62
110	MoO ₂ nanocrystals interconnected on mesocellular carbon foam as a powerful catalyst for vanadium redox flow battery. RSC Advances, 2016, 6, 17574-17582.	1.7	62
111	Experimental studies of strong dipolar interparticle interaction in monodisperse Fe ₃ O ₄ nanoparticles. Applied Physics Letters, 2007, 91, .	1.5	60
112	Soft-template synthesized ordered mesoporous carbon counter electrodes for dye-sensitized solar cells. Carbon, 2010, 48, 4563-4565.	5.4	60
113	Robust mesocellular carbon foam counter electrode for quantum-dot sensitized solar cells. Electrochemistry Communications, 2011, 13, 34-37.	2.3	60
114	Structural Effect on Electrochemical Performance of Ordered Porous Carbon Electrodes for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 11748-11754.	4.0	60
115	Photocatalytic hydroxylation of benzene to phenol over titanium oxide entrapped into hydrophobically modified siliceous foam. Applied Catalysis B: Environmental, 2011, 102, 132-139.	10.8	59
116	A Highly Efficient Colorimetric Immunoassay Using a Nanocomposite Entrapping Magnetic and Platinum Nanoparticles in Ordered Mesoporous Carbon. Advanced Healthcare Materials, 2014, 3, 36-41.	3.9	58
117	Design of grain boundary enriched bimetallic borides for enhanced hydrogen evolution reaction. Chemical Engineering Journal, 2021, 405, 126977.	6.6	56
118	Gravimetric Analysis of the Adsorption and Desorption of CO ₂ on Amine-Functionalized Mesoporous Silica Mounted on a Microcantilever Array. Environmental Science & Technology, 2011, 45, 5704-5709.	4.6	55
119	Ordered mesoporous carbon nanochannel reactors for high-performance Fischer-Tropsch synthesis. Chemical Communications, 2013, 49, 5141.	2.2	54
120	Effective Antifouling Using Quorum-Quenching Acylase Stabilized in Magnetically-Separable Mesoporous Silica. Biomacromolecules, 2014, 15, 1153-1159.	2.6	54
121	Ostwald Ripening Driven Exfoliation to Ultrathin Layered Double Hydroxides Nanosheets for Enhanced Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 44518-44526.	4.0	53
122	Facile conversion of activated carbon to battery anode material using microwave graphitization. Carbon, 2016, 104, 106-111.	5.4	52
123	Generalized Access to Mesoporous Inorganic Particles and Hollow Spheres from Multicomponent Polymer Blends. Advanced Materials, 2018, 30, e1801127.	11.1	52
124	Colorimetric quantification of galactose using a nanostructured multi-catalyst system entrapping galactose oxidase and magnetic nanoparticles as peroxidase mimetics. Analyst, The, 2012, 137, 1137.	1.7	50
125	Well-dispersed Pd ₃ Pt ₁ alloy nanoparticles in large pore sized mesocellular carbon foam for improved methanol-tolerant oxygen reduction reaction. Carbon, 2011, 49, 1108-1117.	5.4	49
126	Investigation of the Support Effect in Atomically Dispersed Pt on WO ₃ for Utilization of Pt in the Hydrogen Evolution Reaction. Angewandte Chemie, 2019, 131, 16184-16188.	1.6	49

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127	Structure engineering defective and mass transfer-enhanced RuO ₂ nanosheets for proton exchange membrane water electrolyzer. <i>Nano Energy</i> , 2021, 88, 106276.	8.2	49
128	Block Copolymer Directed One-Pot Simple Synthesis of L1₀-Phase FePt Nanoparticles inside Ordered Mesoporous Aluminosilicate/Carbon Composites. <i>ACS Nano</i> , 2011, 5, 1018-1025.	7.3	48
129	Highly efficient perovskite solar cells based on mechanically durable molybdenum cathode. <i>Nano Energy</i> , 2015, 17, 131-139.	8.2	48
130	Vertically aligned nanostructured TiO ₂ photoelectrodes for high efficiency perovskite solar cells via a block copolymer template approach. <i>Nanoscale</i> , 2016, 8, 11472-11479.	2.8	48
131	Sorption of Pb(II) and Cu(II) onto multi-amine grafted mesoporous silica embedded with nano-magnetite: Effects of steric factors. <i>Journal of Hazardous Materials</i> , 2012, 239-240, 183-191.	6.5	47
132	Mesoporous carbon host material for stable lithium metal anode. <i>Nanoscale</i> , 2020, 12, 11818-11824.	2.8	47
133	An ordered nanocomposite of organic radical polymer and mesocellular carbon foam as cathode material in lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 1453-1458.	6.7	46
134	Polymer blend directed anisotropic self-assembly toward mesoporous inorganic bowls and nanosheets. <i>Science Advances</i> , 2020, 6, eabb3814.	4.7	46
135	Nanoscale enzyme reactors in mesoporous carbon for improved performance and lifetime of biosensors and biofuel cells. <i>Biosensors and Bioelectronics</i> , 2010, 26, 655-660.	5.3	45
136	A novel mesoporous carbon-silica-titania nanocomposite as a high performance anode material in lithium ion batteries. <i>Chemical Communications</i> , 2011, 47, 4944.	2.2	45
137	Magnetically-separable and highly-stable enzyme system based on crosslinked enzyme aggregates shipped in magnetite-coated mesoporous silica. <i>Journal of Materials Chemistry</i> , 2009, 19, 7864.	6.7	44
138	Simple and Sensitive Point-of-Care Bioassay System Based on Hierarchically Structured Enzyme-Mimetic Nanoparticles. <i>Advanced Healthcare Materials</i> , 2015, 4, 1311-1316.	3.9	44
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