Yusuke Yamauchi

List of Publications by Year
in descending order

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1,035	78,048	315 138	1310 224
papers	citations	h-index	g-index

1080	1080	1080	50229
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal Conversion of Coreâ€“Shell Metalâ€“Organic Frameworks: A New Method for Selectively Functionalized Nanoporous Hybrid Carbon. Journal of the American Chemical Society, 2015, 137, 1572-1580.	6.6	1,307
2	Nanoarchitectonics for Transitionâ€Metalâ€Sulfideâ€Based Electrocatalysts for Water Splitting. Advanced Materials, 2019, 31, e1807134.	11.1	998
3	Metalâ€“Organic Framework-Derived Nanoporous Metal Oxides toward Supercapacitor Applications: Progress and Prospects. ACS Nano, 2017, 11, 5293-5308.	7.3	988
4	Asymmetric Supercapacitors Using 3D Nanoporous Carbon and Cobalt Oxide Electrodes Synthesized from a Single Metalâ€“Organic Framework. ACS Nano, 2015, 9, 6288-6296.	7.3	890
5	Layer-by-layer Nanoarchitectonics: Invention, Innovation, and Evolution. Chemistry Letters, 2014, 43, 36-68.	0.7	813
6	A new family of carbon materials: synthesis of MOF-derived nanoporous carbons and their promising applications. Journal of Materials Chemistry A, 2013, 1, 14-19.	5.2	739
7	Nanoarchitectured Design of Porous Materials and Nanocomposites from Metalâ€Organic Frameworks. Advanced Materials, 2017, 29, 1604898.	11.1	732
8	Nanoarchitectures for Metalâ€“Organic Framework-Derived Nanoporous Carbons toward Supercapacitor Applications. Accounts of Chemical Research, 2016, 49, 2796-2806.	7.6	670
9	Nanoarchitectonics for Mesoporous Materials. Bulletin of the Chemical Society of Japan, 2012, 85, 1-32.	2.0	650
10	Nanoporous carbons through direct carbonization of a zeolitic imidazolate framework for supercapacitor electrodes. Chemical Communications, 2012, 48, 7259.	2.2	624
11	Direct Carbonization of Al-Based Porous Coordination Polymer for Synthesis of Nanoporous Carbon. Journal of the American Chemical Society, 2012, 134, 2864-2867.	6.6	588
12	Direct Synthesis of MOFâ€Derived Nanoporous Carbon with Magnetic Co Nanoparticles toward Efficient Water Treatment. Small, 2014, 10, 2096-2107.	5.2	588
13	Direct Synthesis of Spatially-Controlled Pt-on-Pd Bimetallic Nanodendrites with Superior Electrocatalytic Activity. Journal of the American Chemical Society, 2011, 133, 9674-9677.	6.6	513
14	Templated Synthesis for Nanoarchitectured Porous Materials. Bulletin of the Chemical Society of Japan, 2015, 88, 1171-1200.	2.0	512
15	New Strategies for Novel MOF-Derived Carbon Materials Based on Nanoarchitectures. CheM, 2020, 6, 19-40.	5.8	511
16	One-Pot Synthesis of Zeolitic Imidazolate Framework 67-Derived Hollow Co₃S₄@MoS₂ Heterostructures as Efficient Bifunctional Catalysts. Chemistry of Materials, 2017, 29, 5566-5573.	3.2	510
17	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. Nature Reviews Earth & Environment, 2020, 1, 366-381.	12.2	493
18	Facile synthesis of nanoporous carbons with controlled particle sizes by direct carbonization of monodispersed ZIF-8 crystals. Chemical Communications, 2013, 49, 2521.	2.2	474

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19	Metallic Nanocages: Synthesis of Bimetallic Ptâ€“Pd Hollow Nanoparticles with Dendritic Shells by Selective Chemical Etching. Journal of the American Chemical Society, 2013, 135, 16762-16765.	6.6	452
20	Metalâ€“organic framework-derived one-dimensional porous or hollow carbon-based nanofibers for energy storage and conversion. Materials Horizons, 2018, 5, 394-407.	6.4	452
21	Large-scale synthesis of coaxial carbon nanotube/Ni(OH)2 composites for asymmetric supercapacitor application. Nano Energy, 2015, 11, 211-218.	8.2	439
22	MOF morphologies in control. Nature Chemistry, 2016, 8, 638-639.	6.6	426
23	Synthesis of Prussian Blue Nanoparticles with a Hollow Interior by Controlled Chemical Etching. Angewandte Chemie - International Edition, 2012, 51, 984-988.	7.2	424
24	Electric Doubleâ€Layer Capacitors Based on Highly Graphitized Nanoporous Carbons Derived from ZIFâ€67. Chemistry - A European Journal, 2014, 20, 7895-7900.	1.7	423
25	Fabrication of symmetric supercapacitors based on MOF-derived nanoporous carbons. Journal of Materials Chemistry A, 2014, 2, 19848-19854.	5.2	419
26	25th Anniversary Article: What Can Be Done with the Langmuirâ€Blodgett Method? Recent Developments and its Critical Role in Materials Science. Advanced Materials, 2013, 25, 6477-6512.	11.1	411
27	A high-performance supercapacitor cell based on ZIF-8-derived nanoporous carbon using an organic electrolyte. Chemical Communications, 2016, 52, 4764-4767.	2.2	394
28	Elaborately assembled core-shell structured metal sulfides as a bifunctional catalyst for highly efficient electrochemical overall water splitting. Nano Energy, 2018, 47, 494-502.	8.2	383
29	Synthesis of Bimetallic Au@Pt Nanoparticles with Au Core and Nanostructured Pt Shell toward Highly Active Electrocatalysts. Chemistry of Materials, 2010, 22, 6310-6318.	3.2	380
30	Synthesis of Nitrogenâ€Doped Mesoporous Carbon Spheres with Extraâ€Large Pores through Assembly of Diblock Copolymer Micelles. Angewandte Chemie - International Edition, 2015, 54, 588-593.	7.2	380
31	Shape- and Size-Controlled Synthesis in Hard Templates: Sophisticated Chemical Reduction for Mesoporous Monocrystalline Platinum Nanoparticles. Journal of the American Chemical Society, 2011, 133, 14526-14529.	6.6	377
32	Enzyme nanoarchitectonics: organization and device application. Chemical Society Reviews, 2013, 42, 6322.	18.7	376
33	Hollow Functional Materials Derived from Metalâ€“Organic Frameworks: Synthetic Strategies, Conversion Mechanisms, and Electrochemical Applications. Advanced Materials, 2019, 31, e1804903.	11.1	370
34	Strategies for Improving the Functionality of Zeolitic Imidazolate Frameworks: Tailoring Nanoarchitectures for Functional Applications. Advanced Materials, 2017, 29, 1700213.	11.1	366
35	Three-Dimensional Networked Metalâ€“Organic Frameworks with Conductive Polypyrrole Tubes for Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 38737-38744.	4.0	364
36	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIFâ€67 Crystals. Angewandte Chemie - International Edition, 2017, 56, 8435-8440.	7.2	362

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37	Nanoarchitectures for Mesoporous Metals. Advanced Materials, 2016, 28, 993-1010.	11.1	357
38	Mesoporous Metallic Iridium Nanosheets. Journal of the American Chemical Society, 2018, 140, 12434-12441.	6.6	345
39	Nanoarchitectured Structure and Surface Biofunctionality of Mesoporous Silica Nanoparticles. Advanced Materials, 2020, 32, e1907035.	11.1	336
40	Biological Functions and Current Advances in Isolation and Detection Strategies for Exosome Nanovesicles. Small, 2018, 14, 1702153.	5.2	335
41	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. Chemical Science, 2017, 8, 3538-3546.	3.7	329
42	Autoprogrammed Synthesis of Triple-Layered Au@Pd@Pt Coreâ^'Shell Nanoparticles Consisting of a Au@Pd Bimetallic Core and Nanoporous Pt Shell. Journal of the American Chemical Society, 2010, 132, 13636-13638.	6.6	328
43	Block Copolymer Mediated Synthesis of Dendritic Platinum Nanoparticles. Journal of the American Chemical Society, 2009, 131, 9152-9153.	6.6	321
44	Fabrication of an MOF-derived heteroatom-doped Co/CoO/carbon hybrid with superior sodium storage performance for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 15356-15366.	5.2	317
45	Bimetallic Metal-Organic Frameworks for Controlled Catalytic Graphitization of Nanoporous Carbons. Scientific Reports, 2016, 6, 30295.	1.6	314
46	Self-assembly of block copolymers towards mesoporous materials for energy storage and conversion systems. Chemical Society Reviews, 2020, 49, 4681-4736.	18.7	311
47	Observation of Quantum Confinement in Monodisperse Methylammonium Lead Halide Perovskite Nanocrystals Embedded in Mesoporous Silica. Journal of the American Chemical Society, 2016, 138, 13874-13881.	6.6	308
48	Graphene Nanoarchitectonics: Recent Advances in Grapheneâ€Based Electrocatalysts for Hydrogen Evolution Reaction. Advanced Materials, 2019, 31, e1903415.	11.1	289
49	Emerging Pt-based electrocatalysts with highly open nanoarchitectures for boosting oxygen reduction reaction. Nano Today, 2018, 21, 91-105.	6.2	285
50	Assembly of Hollow Carbon Nanospheres on Graphene Nanosheets and Creation of Ironâ€“Nitrogen-Doped Porous Carbon for Oxygen Reduction. ACS Nano, 2018, 12, 5674-5683.	7.3	277
51	Electrochemical Deposition: An Advanced Approach for Templated Synthesis of Nanoporous Metal Architectures. Accounts of Chemical Research, 2018, 51, 1764-1773.	7.6	277
52	Nanoarchitectured Grapheneâ€Based Supercapacitors for Nextâ€Generation Energyâ€Storage Applications. Chemistry - A European Journal, 2014, 20, 13838-13852.	1.7	274
53	Conductive polymers for next-generation energy storage systems: recent progress and new functions. Materials Horizons, 2016, 3, 517-535.	6.4	272
54	Neuroinflammation in schizophrenia especially focused on the role of microglia. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2013, 42, 115-121.	2.5	265

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55	Controlled Chemical Vapor Deposition for Synthesis of Nanowire Arrays of Metalâ€“Organic Frameworks and Their Thermal Conversion to Carbon/Metal Oxide Hybrid Materials. Chemistry of Materials, 2018, 30, 3379-3386.	3.2	264
56	Hierarchical porous carbons with layer-by-layer motif architectures from confined soft-template self-assembly in layered materials. Nature Communications, 2017, 8, 15717.	5.8	263
57	3D network of cellulose-based energy storage devices and related emerging applications. Materials Horizons, 2017, 4, 522-545.	6.4	261
58	Strategic Synthesis of Trimetallic Au@Pd@Pt Coreâ^'Shell Nanoparticles from Poly(vinylpyrrolidone)-Based Aqueous Solution toward Highly Active Electrocatalysts. Chemistry of Materials, 2011, 23, 2457-2465.	3.2	259
59	Electrochemical Synthesis of Oneâ€Dimensional Mesoporous Pt Nanorods Using the Assembly of Surfactant Micelles in Confined Space. Angewandte Chemie - International Edition, 2013, 52, 8050-8053.	7.2	259
60	Tailored design of functional nanoporous carbon materials toward fuel cell applications. Nano Today, 2014, 9, 305-323.	6.2	254
61	Synthesis of Nanoporous Carbonâ€“Cobaltâ€Oxide Hybrid Electrocatalysts by Thermal Conversion of Metalâ€“Organic Frameworks. Chemistry - A European Journal, 2014, 20, 4217-4221.	1.7	253
62	Rational Design of Mesoporous Metals and Related Nanomaterials by a Softâ€Template Approach. Chemistry - an Asian Journal, 2008, 3, 664-676.	1.7	252
63	Nanoarchitectonics: A New Materials Horizon for Prussian Blue and Its Analogues. Bulletin of the Chemical Society of Japan, 2019, 92, 875-904.	2.0	252
64	Preparation of Colloidal Mesoporous Silica Nanoparticles with Different Diameters and Their Unique Degradation Behavior in Static Aqueous Systems. Chemistry of Materials, 2012, 24, 1462-1471.	3.2	250
65	Defectâ€Rich Graphene Nanomesh Produced by Thermal Exfoliation of Metalâ€“Organic Frameworks for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 13354-13359.	7.2	247
66	Electrochemical Synthesis of Mesoporous Ptâ€“Au Binary Alloys with Tunable Compositions for Enhancement of Electrochemical Performance. Journal of the American Chemical Society, 2012, 134, 5100-5109.	6.6	245
67	Nanoarchitectured metalâ€“organic framework/polypyrrole hybrids for brackish water desalination using capacitive deionization. Materials Horizons, 2019, 6, 1433-1437.	6.4	241
68	Ultrahigh performance supercapacitors utilizing coreâ€“shell nanoarchitectures from a metalâ€“organic framework-derived nanoporous carbon and a conducting polymer. Chemical Science, 2016, 7, 5704-5713.	3.7	236
69	Confined Selfâ€Assembly in Twoâ€Dimensional Interlayer Space: Monolayered Mesoporous Carbon Nanosheets with Inâ€Plane Orderly Arranged Mesopores and a Highly Graphitized Framework. Angewandte Chemie - International Edition, 2018, 57, 2894-2898.	7.2	235
70	Capacitive deionization using nitrogen-doped mesostructured carbons for highly efficient brackish water desalination. Chemical Engineering Journal, 2019, 362, 887-896.	6.6	234
71	Preparation of Microporous Carbon Fibers through Carbonization of Al-Based Porous Coordination Polymer (Al-PCP) with Furfuryl Alcohol. Chemistry of Materials, 2011, 23, 1225-1231.	3.2	231
72	Tailored Design of Multiple Nanoarchitectures in Metal-Cyanide Hybrid Coordination Polymers. Journal of the American Chemical Society, 2013, 135, 384-391.	6.6	228

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73	Core-shell motif construction: Highly graphitic nitrogen-doped porous carbon electrocatalysts using MOF-derived carbon@COF heterostructures as sacrificial templates. Chemical Engineering Journal, 2020, 396, 125154.	6.6	223
74	Solar-Powered Sustainable Water Production: State-of-the-Art Technologies for Sunlightâ€“Energyâ€“Water Nexus. ACS Nano, 2021, 15, 12535-12566.	7.3	220
75	Mesoporous metallic rhodium nanoparticles. Nature Communications, 2017, 8, 15581.	5.8	214
76	Zeolitic imidazolate framework (ZIF-8) derived nanoporous carbon: the effect of carbonization temperature on the supercapacitor performance in an aqueous electrolyte. Physical Chemistry Chemical Physics, 2016, 18, 29308-29315.	1.3	213
77	Allâ€Metal Mesoporous Nanocolloids: Solutionâ€Phase Synthesis of Coreâ€“Shell Pd@Pt Nanoparticles with a Designed Concave Surface. Angewandte Chemie - International Edition, 2013, 52, 13611-13615.	7.2	211
78	Avoiding Pre-Isolation Step in Exosome Analysis: Direct Isolation and Sensitive Detection of Exosomes Using Gold-Loaded Nanoporous Ferric Oxide Nanozymes. Analytical Chemistry, 2019, 91, 3827-3834.	3.2	209
79	General synthesis of hierarchical sheet/plate-like M-BDC (M = Cu, Mn, Ni, and Zr) metalâ€“organic frameworks for electrochemical non-enzymatic glucose sensing. Chemical Science, 2020, 11, 3644-3655.	3.7	205
80	Nano-micro-porous skutterudites with 100% enhancement in ZT for high performance thermoelectricity. Nano Energy, 2017, 31, 152-159.	8.2	201
81	Nanostructured nonprecious metal catalysts for electrochemical reduction of carbon dioxide. Nano Today, 2016, 11, 373-391.	6.2	200
82	Unprecedented capacitive deionization performance of interconnected ironâ€“nitrogen-doped carbon tubes in oxygenated saline water. Materials Horizons, 2020, 7, 1404-1412.	6.4	199
83	Fullerene Nanoarchitectonics: From Zero to Higher Dimensions. Chemistry - an Asian Journal, 2013, 8, 1662-1679.	1.7	198
84	Mesoporous Pt nanospheres with designed pore surface as highly active electrocatalyst. Chemical Science, 2016, 7, 1575-1581.	3.7	197
85	Largeâ€Scale Synthesis of MOFâ€Derived Superporous Carbon Aerogels with Extraordinary Adsorption Capacity for Organic Solvents. Angewandte Chemie - International Edition, 2020, 59, 2066-2070.	7.2	191
86	Ultrahigh capacitive deionization performance by 3D interconnected MOF-derived nitrogen-doped carbon tubes. Chemical Engineering Journal, 2020, 390, 124493.	6.6	191
87	Superparamagnetic nanoarchitectures for disease-specific biomarker detection. Chemical Society Reviews, 2019, 48, 5717-5751.	18.7	188
88	Subâ€50 nm Ironâ€“Nitrogenâ€Doped Hollow Carbon Sphereâ€Encapsulated Iron Carbide Nanoparticles as Efficient Oxygen Reduction Catalysts. Advanced Science, 2018, 5, 1800120.	5.6	187
89	Self-assembly of nickel phosphate-based nanotubes into two-dimensional crumpled sheet-like architectures for high-performance asymmetric supercapacitors. Nano Energy, 2020, 67, 104270.	8.2	187
90	Controlling physical features of mesoporous silicananoparticles (MSNs) for emerging applications. Journal of Materials Chemistry, 2012, 22, 1251-1256.	6.7	185

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91	Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. Angewandte Chemie - International Edition, 2016, 55, 8228-8234.	7.2	184
92	Strategic design of triphenylamine- and triphenyltriazine-based two-dimensional covalent organic frameworks for CO₂ uptake and energy storage. Journal of Materials Chemistry A, 2018, 6, 19532-19541.	5.2	184
93	Perfectly ordered mesoporous iron-nitrogen doped carbon as highly efficient catalyst for oxygen reduction reaction in both alkaline and acidic electrolytes. Nano Energy, 2017, 36, 286-294.	8.2	183
94	Multiâ€Stimuliâ€Responsive Polymeric Materials. Chemistry - A European Journal, 2015, 21, 13164-13174.	1.7	182
95	Platinum-Free Counter Electrode Comprised of Metal-Organic-Framework (MOF)-Derived Cobalt Sulfide Nanoparticles for Efficient Dye-Sensitized Solar Cells (DSSCs). Scientific Reports, 2014, 4, 6983.	1.6	182
96	A case study on fibrous porous SnO 2 anode for robust, high-capacity lithium-ion batteries. Nano Energy, 2014, 10, 53-62.	8.2	179
97	Electrochemical synthesis of mesoporous gold films toward mesospace-stimulated optical properties. Nature Communications, 2015, 6, 6608.	5.8	178
98	Hollow Microspherical and Microtubular [3 + 3] Carbazole-Based Covalent Organic Frameworks and Their Gas and Energy Storage Applications. ACS Applied Materials & Interfaces, 2019, 11, 9343-9354.	4.0	178
99	Pore-tuning to boost the electrocatalytic activity of polymeric micelle-templated mesoporous Pd nanoparticles. Chemical Science, 2019, 10, 4054-4061.	3.7	175
100	Large Cs adsorption capability of nanostructured Prussian Blue particles with high accessible surface areas. Journal of Materials Chemistry, 2012, 22, 18261.	6.7	174
101	Unlocking the Potential of Oxygen-Deficient Copper-Doped Co₃O₄ Nanocrystals Confined in Carbon as an Advanced Electrode for Flexible Solid-State Supercapacitors. ACS Energy Letters, 2021, 6, 3011-3019.	8.8	173
102	Facile Synthesis of Three-Dimensional Dendritic Platinum Nanoelectrocatalyst. Chemistry of Materials, 2009, 21, 3562-3569.	3.2	170
103	Aqueous Colloidal Mesoporous Nanoparticles with Ethenylene-Bridged Silsesquioxane Frameworks. Journal of the American Chemical Society, 2011, 133, 8102-8105.	6.6	170
104	Recent progress in mesoporous titania materials: adjusting morphology for innovative applications. Science and Technology of Advanced Materials, 2012, 13, 013003.	2.8	170
105	Largeâ€Scale Synthesis of Reduced Graphene Oxides with Uniformly Coated Polyaniline for Supercapacitor Applications. ChemSusChem, 2014, 7, 1551-1556.	3.6	170
106	Metalâ€“Organic Frameworks and Their Derived Materials: Emerging Catalysts for a Sulfate Radicalsâ€Based Advanced Oxidation Process in Water Purification. Small, 2019, 15, e1900744.	5.2	170
107	Controlling Particle Size and Structural Properties of Mesoporous Silica Nanoparticles Using the Taguchi Method. Journal of Physical Chemistry C, 2011, 115, 13158-13165.	1.5	169
108	Assembly of hollow mesoporous nanoarchitectures composed of ultrafine Mo₂C nanoparticles on N-doped carbon nanosheets for efficient electrocatalytic reduction of oxygen. Materials Horizons, 2017, 4, 1171-1177.	6.4	167

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109	Hollow Porous Heterometallic Phosphide Nanocubes for Enhanced Electrochemical Water Splitting. Small, 2018, 14, e1802442.	5.2	166
110	Recent Advances in Graphene Quantum Dots: Synthesis, Properties, and Applications. Small Methods, 2018, 2, 1800050.	4.6	166
111	MOF-derived Nanoporous Carbon as Intracellular Drug Delivery Carriers. Chemistry Letters, 2014, 43, 717-719.	0.7	165
112	Everlasting Living and Breathing Gyroid 3D Network in Si@SiOx/C Nanoarchitecture for Lithium Ion Battery. ACS Nano, 2019, 13, 9607-9619.	7.3	165
113	Synthesis of Mesoporous Pt Films with Tunable Pore Sizes from Aqueous Surfactant Solutions. Chemistry of Materials, 2012, 24, 1591-1598.	3.2	164
114	Synthesis of Superparamagnetic Nanoporous Iron Oxide Particles with Hollow Interiors by Using Prussian Blue Coordination Polymers. Chemistry of Materials, 2012, 24, 2698-2707.	3.2	163
115	Synthesis of electro-deposited ordered mesoporous RuO using lyotropic liquid crystal and application toward micro-supercapacitors. Journal of Power Sources, 2013, 227, 153-160.	4.0	162
116	Porous Organic Frameworks: Advanced Materials in Analytical Chemistry. Advanced Science, 2018, 5, 1801116.	5.6	162
117	Polymeric Micelle Assembly for the Smart Synthesis of Mesoporous Platinum Nanospheres with Tunable Pore Sizes. Angewandte Chemie - International Edition, 2015, 54, 11073-11077.	7.2	160
118	Self-templated fabrication of hierarchical hollow manganese-cobalt phosphide yolk-shell spheres for enhanced oxygen evolution reaction. Chemical Engineering Journal, 2021, 405, 126580.	6.6	160
119	Recent Advances and Perspectives of Battery-Type Anode Materials for Potassium Ion Storage. ACS Nano, 2021, 15, 18931-18973.	7.3	160
120	Facile solution synthesis of Ag@Pt coreâ€“shell nanoparticles with dendritic Pt shells. Physical Chemistry Chemical Physics, 2013, 15, 3490.	1.3	159
121	Mesoporous Metallic Cells: Design of Uniformly Sized Hollow Mesoporous Ptâ€“Ru Particles with Tunable Shell Thicknesses. Small, 2013, 9, 1047-1051.	5.2	159
122	One-Step Synthetic Strategy of Hybrid Materials from Bimetallic Metalâ€“Organic Frameworks for Supercapacitor Applications. ACS Applied Energy Materials, 2018, 1, 2007-2015.	2.5	159
123	Rational design and construction of nanoporous iron- and nitrogen-doped carbon electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2019, 7, 1380-1393.	5.2	159
124	Highly biocompatible, hollow coordination polymer nanoparticles as cisplatin carriers for efficient intracellular drug delivery. Chemical Communications, 2012, 48, 5151.	2.2	157
125	Mesoporous Iron-doped MoS₂/CoMo₂S₄ Heterostructures through Organicâ€“Metal Cooperative Interactions on Spherical Micelles for Electrochemical Water Splitting. ACS Nano, 2020, 14, 4141-4152.	7.3	156
126	Rechargeable lithiumâ€“air batteries: a perspective on the development of oxygen electrodes. Journal of Materials Chemistry A, 2016, 4, 14050-14068.	5.2	155

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127	Construction Hierarchically Mesoporous/Microporous Materials Based on Block Copolymer and Covalent Organic Framework. Journal of the Taiwan Institute of Chemical Engineers, 2020, 112, 180-192.	2.7	155
128	All-Metal Layer-by-Layer Films: Bimetallic Alternate Layers with Accessible Mesopores for Enhanced Electrocatalysis. Journal of the American Chemical Society, 2012, 134, 10819-10821.	6.6	154
129	Ordered Mesoporous Cobalt Phosphate with Crystallized Walls toward Highly Active Water Oxidation Electrocatalysts. Small, 2016, 12, 1709-1715.	5.2	153
130	Hierarchical mesoporous yolkâ€“shell structured carbonaceous nanospheres for high performance electrochemical capacitive energy storage. Chemical Communications, 2015, 51, 2518-2521.	2.2	151
131	Extraordinary capacitive deionization performance of highly-ordered mesoporous carbon nano-polyhedra for brackish water desalination. Environmental Science: Nano, 2019, 6, 981-989.	2.2	150
132	KOH-Activated Hollow ZIF-8 Derived Porous Carbon: Nanoarchitectured Control for Upgraded Capacitive Deionization and Supercapacitor. ACS Applied Materials & Interfaces, 2021, 13, 52034-52043.	4.0	149
133	Carbon-incorporated Fe₃O₄ nanoflakes: high-performance faradaic materials for hybrid capacitive deionization and supercapacitors. Materials Chemistry Frontiers, 2021, 5, 3480-3488.	3.2	147
134	Twoâ€Dimensional MXeneâ€Polymer Heterostructure with Ordered Inâ€Plane Mesochannels for Highâ€Performance Capacitive Deionization. Angewandte Chemie - International Edition, 2021, 60, 26528-26534.	7.2	147
135	Biocompatible, surface functionalized mesoporous titania nanoparticles for intracellular imaging and anticancer drug delivery. Chemical Communications, 2011, 47, 5232.	2.2	146
136	Field-Induced alignment controls of one-dimensional mesochannels in mesoporous materials. Journal of the Ceramic Society of Japan, 2013, 121, 831-840.	0.5	146
137	Reduced graphene oxide nanosheets decorated with Au, Pd and Auâ€“Pd bimetallic nanoparticles as highly efficient catalysts for electrochemical hydrogen generation. Journal of Materials Chemistry A, 2015, 3, 20254-20266.	5.2	146
138	Nanoarchitecture of MOF-derived nanoporous functional composites for hybrid supercapacitors. Journal of Materials Chemistry A, 2017, 5, 15065-15072.	5.2	146
139	Grapheneâ€“carbon 2D heterostructures with hierarchically-porous P,N-doped layered architecture for capacitive deionization. Chemical Science, 2021, 12, 10334-10340.	3.7	146
140	Size- and shape-controlled synthesis of Prussian Blue nanoparticles by a polyvinylpyrrolidone-assisted crystallization process. CrystEngComm, 2012, 14, 3387.	1.3	143
141	Evaporationâ€Induced Coating of Hydrous Ruthenium Oxide on Mesoporous Silica Nanoparticles to Develop Highâ€Performance Supercapacitors. Small, 2013, 9, 2520-2526.	5.2	142
142	Porous nanoarchitectures of spinel-type transition metal oxides for electrochemical energy storage systems. Physical Chemistry Chemical Physics, 2015, 17, 30963-30977.	1.3	142
143	Self-Assembly of Two-Dimensional Bimetallic Nickelâ€“Cobalt Phosphate Nanoplates into One-Dimensional Porous Chainlike Architecture for Efficient Oxygen Evolution Reaction. Chemistry of Materials, 2020, 32, 7005-7018.	3.2	142
144	Fullerene Crystals with Bimodal Pore Architectures Consisting of Macropores and Mesopores. Journal of the American Chemical Society, 2013, 135, 586-589.	6.6	141

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145	Direct synthesis of nanoporous carbon nitride fibers using Al-based porous coordination polymers (Al-PCPs). Chemical Communications, 2011, 47, 8124.	2.2	140
146	Ti3C2 MXenes-derived NaTi2(PO4)3/MXene nanohybrid for fast and efficient hybrid capacitive deionization performance. Chemical Engineering Journal, 2021, 407, 127148.	6.6	140
147	Rapid and Efficient Synthesis of Platinum Nanodendrites with High Surface Area by Chemical Reduction with Formic Acid. Chemistry of Materials, 2010, 22, 2835-2841.	3.2	139
148	Development of Sulfonicâ€Acidâ€Functionalized Mesoporous Materials: Synthesis and Catalytic Applications. Chemistry - A European Journal, 2019, 25, 1614-1635.	1.7	139
149	Polymeric Micelle Assembly for Preparation of Large-Sized Mesoporous Metal Oxides with Various Compositions. Langmuir, 2014, 30, 651-659.	1.6	138
150	Mesoporous Iron Phosphonate Electrodes with Crystalline Frameworks for Lithium-Ion Batteries. Chemistry of Materials, 2015, 27, 1082-1089.	3.2	138
151	Stable Blue Luminescent CsPbBr₃ Perovskite Nanocrystals Confined in Mesoporous Thin Films. Angewandte Chemie - International Edition, 2018, 57, 8881-8885.	7.2	138
152	Highly efficient photocatalytic degradation of different hazardous contaminants by CaIn2S4-Ti3C2Tx Schottky heterojunction: An experimental and mechanism study. Chemical Engineering Journal, 2021, 421, 127838.	6.6	138
153	Spatially Confined Assembly of Monodisperse Ruthenium Nanoclusters in a Hierarchically Ordered Carbon Electrode for Efficient Hydrogen Evolution. Angewandte Chemie - International Edition, 2018, 57, 5848-5852.	7.2	135
154	Performance of metalâ€“organic frameworks in the electrochemical sensing of environmental pollutants. Journal of Materials Chemistry A, 2021, 9, 8195-8220.	5.2	135
155	Evolution of Standing Mesochannels on Porous Anodic Alumina Substrates with Designed Conical Holes. Journal of the American Chemical Society, 2008, 130, 10165-10170.	6.6	133
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