# Yusuke Yamauchi

## List of Publications by Citations



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|---|---|---|---|
| 1,012 papers | 56,934 citations | 121 h-index | 196 g-index |
| 1,080 ext. papers | 67,224 ext. citations | 8.4 avg, IF | 8.41 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 1012 | Thermal conversion of core-shell metal-organic frameworks: a new method for selectively functionalized nanoporous hybrid carbon. *Journal of the American Chemical Society*, **2015**, 137, 1572-80 | 16.4 | 1085 |
| 1011 | Asymmetric Supercapacitors Using 3D Nanoporous Carbon and Cobalt Oxide Electrodes Synthesized from a Single Metal-Organic Framework. *ACS Nano*, **2015**, 9, 6288-96 | 16.7 | 785 |
| 1010 | Layer-by-layer Nanoarchitectonics: Invention, Innovation, and Evolution. *Chemistry Letters*, **2014**, 43, 36-68 | 1.7 | 761 |
| 1009 | Metal-Organic Framework-Derived Nanoporous Metal Oxides toward Supercapacitor Applications: Progress and Prospects. *ACS Nano*, **2017**, 11, 5293-5308 | 16.7 | 726 |
| 1008 | 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 | 13 | 670 |
| 1007 | Nanoarchitectonics for Transition-Metal-Sulfide-Based Electrocatalysts for Water Splitting. *Advanced Materials*, **2019**, 31, e1807134 | 24 | 613 |
| 1006 | Nanoarchitectonics for Mesoporous Materials. *Bulletin of the Chemical Society of Japan*, **2012**, 85, 1-32 | 5.1 | 602 |
| 1005 | Nanoarchitectured Design of Porous Materials and Nanocomposites from Metal-Organic Frameworks. *Advanced Materials*, **2017**, 29, 1604898 | 24 | 597 |
| 1004 | Nanoporous carbons through direct carbonization of a zeolitic imidazolate framework for supercapacitor electrodes. *Chemical Communications*, **2012**, 48, 7259-61 | 5.8 | 559 |
| 1003 | Nanoarchitectures for Metal-Organic Framework-Derived Nanoporous Carbons toward Supercapacitor Applications. *Accounts of Chemical Research*, **2016**, 49, 2796-2806 | 24.3 | 547 |
| 1002 | Direct carbonization of Al-based porous coordination polymer for synthesis of nanoporous carbon. *Journal of the American Chemical Society*, **2012**, 134, 2864-7 | 16.4 | 538 |
| 1001 | Direct synthesis of MOF-derived nanoporous carbon with magnetic Co nanoparticles toward efficient water treatment. *Small*, **2014**, 10, 2096-107 | 11 | 505 |
| 1000 | Templated Synthesis for Nanoarchitectured Porous Materials. *Bulletin of the Chemical Society of Japan*, **2015**, 88, 1171-1200 | 5.1 | 479 |
| 999 | Direct synthesis of spatially-controlled Pt-on-Pd bimetallic nanodendrites with superior electrocatalytic activity. *Journal of the American Chemical Society*, **2011**, 133, 9674-7 | 16.4 | 478 |
| 998 | Metallic nanocages: synthesis of bimetallic Pt-Pd hollow nanoparticles with dendritic shells by selective chemical etching. *Journal of the American Chemical Society*, **2013**, 135, 16762-5 | 16.4 | 416 |
| 997 | Facile synthesis of nanoporous carbons with controlled particle sizes by direct carbonization of monodispersed ZIF-8 crystals. *Chemical Communications*, **2013**, 49, 2521-3 | 5.8 | 408 |
| 996 | Large-scale synthesis of coaxial carbon nanotube/Ni(OH)2 composites for asymmetric supercapacitor application. *Nano Energy*, **2015**, 11, 211-218 | 17.1 | 403 |

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| 995 | One-Pot Synthesis of Zeolitic Imidazolate Framework 67-Derived Hollow Co3S4@MoS2 Heterostructures as Efficient Bifunctional Catalysts. *Chemistry of Materials*, **2017**, 29, 5566-5573 | 9.6 | 378 |
| 994 | Fabrication of symmetric supercapacitors based on MOF-derived nanoporous carbons. *Journal of Materials Chemistry A*, **2014**, 2, 19848-19854 | 13 | 376 |
| 993 | Carbon materials: MOF morphologies in control. *Nature Chemistry*, **2016**, 8, 638-9 | 17.6 | 375 |
| 992 | A high-performance supercapacitor cell based on ZIF-8-derived nanoporous carbon using an organic electrolyte. *Chemical Communications*, **2016**, 52, 4764-7 | 5.8 | 359 |
| 991 | Synthesis of Bimetallic Au@Pt Nanoparticles with Au Core and Nanostructured Pt Shell toward Highly Active Electrocatalysts. *Chemistry of Materials*, **2010**, 22, 6310-6318 | 9.6 | 348 |
| 990 | 25th anniversary article: what can be done with the Langmuir-Blodgett method? Recent developments and its critical role in materials science. *Advanced Materials*, **2013**, 25, 6477-512 | 24 | 345 |
| 989 | Electric double-layer capacitors based on highly graphitized nanoporous carbons derived from ZIF-67. *Chemistry - A European Journal*, **2014**, 20, 7895-900 | 4.8 | 344 |
| 988 | Shape- and size-controlled synthesis in hard templates: sophisticated chemical reduction for mesoporous monocrystalline platinum nanoparticles. *Journal of the American Chemical Society*, **2011**, 133, 14526-9 | 16.4 | 336 |
| 987 | Synthesis of Prussian blue nanoparticles with a hollow interior by controlled chemical etching. *Angewandte Chemie - International Edition*, **2012**, 51, 984-8 | 16.4 | 335 |
| 986 | Metal–organic framework-derived one-dimensional porous or hollow carbon-based nanofibers for energy storage and conversion. *Materials Horizons*, **2018**, 5, 394-407 | 14.4 | 331 |
| 985 | Enzyme nanoarchitectonics: organization and device application. *Chemical Society Reviews*, **2013**, 42, 6322-45 | 58.5 | 330 |
| 984 | Block copolymer mediated synthesis of dendritic platinum nanoparticles. *Journal of the American Chemical Society*, **2009**, 131, 9152-3 | 16.4 | 311 |
| 983 | Autoprogrammed synthesis of triple-layered Au@Pd@Pt core-shell nanoparticles consisting of a Au@Pd bimetallic core and nanoporous Pt shell. *Journal of the American Chemical Society*, **2010**, 132, 13636-8 | 16.4 | 310 |
| 982 | Elaborately assembled core-shell structured metal sulfides as a bifunctional catalyst for highly efficient electrochemical overall water splitting. *Nano Energy*, **2018**, 47, 494-502 | 17.1 | 302 |
| 981 | Nanoarchitectures for Mesoporous Metals. *Advanced Materials*, **2016**, 28, 993-1010 | 24 | 297 |
| 980 | Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIF-67 Crystals. *Angewandte Chemie - International Edition*, **2017**, 56, 8435-8440 | 16.4 | 275 |
| 979 | Strategies for Improving the Functionality of Zeolitic Imidazolate Frameworks: Tailoring Nanoarchitectures for Functional Applications. *Advanced Materials*, **2017**, 29, 1700213 | 24 | 270 |
| 978 | Bimetallic Metal-Organic Frameworks for Controlled Catalytic Graphitization of Nanoporous Carbons. *Scientific Reports*, **2016**, 6, 30295 | 4.9 | 267 |

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| 977 | New Strategies for Novel MOF-Derived Carbon Materials Based on Nanoarchitectures. *CheM*, **2020**, 6, 19-40 | 16.2 | 266 |
| 976 | Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. *Chemical Science*, **2017**, 8, 3538-3546 | 9.4 | 264 |
| 975 | 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 | 13 | 255 |
| 974 | Hollow Functional Materials Derived from Metal-Organic Frameworks: Synthetic Strategies, Conversion Mechanisms, and Electrochemical Applications. *Advanced Materials*, **2019**, 31, e1804903 | 24 | 248 |
| 973 | Electrochemical synthesis of one-dimensional mesoporous Pt nanorods using the assembly of surfactant micelles in confined space. *Angewandte Chemie - International Edition*, **2013**, 52, 8050-3 | 16.4 | 248 |
| 972 | Nanoarchitectured graphene-based supercapacitors for next-generation energy-storage applications. *Chemistry - A European Journal*, **2014**, 20, 13838-52 | 4.8 | 245 |
| 971 | 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 | 16.4 | 242 |
| 970 | Assembly of Hollow Carbon Nanospheres on Graphene Nanosheets and Creation of Iron-Nitrogen-Doped Porous Carbon for Oxygen Reduction. *ACS Nano*, **2018**, 12, 5674-5683 | 16.7 | 239 |
| 969 | Emerging Pt-based electrocatalysts with highly open nanoarchitectures for boosting oxygen reduction reaction. *Nano Today*, **2018**, 21, 91-105 | 17.9 | 238 |
| 968 | Rational design of mesoporous metals and related nanomaterials by a soft-template approach. *Chemistry - an Asian Journal*, **2008**, 3, 664-76 | 4.5 | 238 |
| 967 | Strategic Synthesis of Trimetallic [email´protected]@Pt Core–Shell Nanoparticles from Poly(vinylpyrrolidone)-Based Aqueous Solution toward Highly Active Electrocatalysts. *Chemistry of Materials*, **2011**, 23, 2457-2465 | 9.6 | 235 |
| 966 | Controlled Chemical Vapor Deposition for Synthesis of Nanowire Arrays of Metal–Organic Frameworks and Their Thermal Conversion to Carbon/Metal Oxide Hybrid Materials. *Chemistry of Materials*, **2018**, 30, 3379-3386 | 9.6 | 233 |
| 965 | Hierarchical porous carbons with layer-by-layer motif architectures from confined soft-template self-assembly in layered materials. *Nature Communications*, **2017**, 8, 15717 | 17.4 | 231 |
| 964 | Tailored design of functional nanoporous carbon materials toward fuel cell applications. *Nano Today*, **2014**, 9, 305-323 | 17.9 | 230 |
| 963 | Three-Dimensional Networked Metal-Organic Frameworks with Conductive Polypyrrole Tubes for Flexible Supercapacitors. *ACS Applied Materials & Interfaces*, **2017**, 9, 38737-38744 | 9.5 | 228 |
| 962 | Mesoporous Metallic Iridium Nanosheets. *Journal of the American Chemical Society*, **2018**, 140, 12434-12441 | 14.4 | 226 |
| 961 | Synthesis of nanoporous carbon-cobalt-oxide hybrid electrocatalysts by thermal conversion of metal-organic frameworks. *Chemistry - A European Journal*, **2014**, 20, 4217-21 | 4.8 | 226 |
| 960 | Electrochemical synthesis of mesoporous Pt-Au binary alloys with tunable compositions for enhancement of electrochemical performance. *Journal of the American Chemical Society*, **2012**, 134, 5100-9 | 14.4 | 223 |

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| 959 | 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 | 9.6 | 221 |
| 958 | Electrochemical Deposition: An Advanced Approach for Templated Synthesis of Nanoporous Metal Architectures. *Accounts of Chemical Research*, **2018**, 51, 1764-1773 | 24.3 | 218 |
| 957 | 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 | 9.6 | 218 |
| 956 | Biological Functions and Current Advances in Isolation and Detection Strategies for Exosome Nanovesicles. *Small*, **2018**, 14, 1702153 | 11 | 217 |
| 955 | Neuroinflammation in schizophrenia especially focused on the role of microglia. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2013**, 42, 115-21 | 5.5 | 214 |
| 954 | Nanoarchitectonics: A New Materials Horizon for Prussian Blue and Its Analogues. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 875-904 | 5.1 | 210 |
| 953 | Conductive polymers for next-generation energy storage systems: recent progress and new functions. *Materials Horizons*, **2016**, 3, 517-535 | 14.4 | 210 |
| 952 | 3D network of cellulose-based energy storage devices and related emerging applications. *Materials Horizons*, **2017**, 4, 522-545 | 14.4 | 208 |
| 951 | Ultrahigh performance supercapacitors utilizing core-shell nanoarchitectures from a metal-organic framework-derived nanoporous carbon and a conducting polymer. *Chemical Science*, **2016**, 7, 5704-5713 | 9.4 | 201 |
| 950 | Tailored design of multiple nanoarchitectures in metal-cyanide hybrid coordination polymers. *Journal of the American Chemical Society*, **2013**, 135, 384-91 | 16.4 | 199 |
| 949 | All-metal mesoporous nanocolloids: solution-phase synthesis of core-shell Pd@Pt nanoparticles with a designed concave surface. *Angewandte Chemie - International Edition*, **2013**, 52, 13611-5 | 16.4 | 192 |
| 948 | Confined Self-Assembly in Two-Dimensional Interlayer Space: Monolayered Mesoporous Carbon Nanosheets with In-Plane Orderly Arranged Mesopores and a Highly Graphitized Framework. *Angewandte Chemie - International Edition*, **2018**, 57, 2894-2898 | 16.4 | 188 |
| 947 | Synthesis of nitrogen-doped mesoporous carbon spheres with extra-large pores through assembly of diblock copolymer micelles. *Angewandte Chemie - International Edition*, **2015**, 54, 588-93 | 16.4 | 185 |
| 946 | Fullerene nanoarchitectonics: from zero to higher dimensions. *Chemistry - an Asian Journal*, **2013**, 8, 1662-79 | 4.5 | 182 |
| 945 | 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 | 3.6 | 177 |
| 944 | Mesoporous Pt nanospheres with designed pore surface as highly active electrocatalyst. *Chemical Science*, **2016**, 7, 1575-1581 | 9.4 | 176 |
| 943 | Capacitive deionization using nitrogen-doped mesostructured carbons for highly efficient brackish water desalination. *Chemical Engineering Journal*, **2019**, 362, 887-896 | 14.7 | 176 |
| 942 | Controlling physical features of mesoporous silica nanoparticles (MSNs) for emerging applications. *Journal of Materials Chemistry*, **2012**, 22, 1251-1256 | | 175 |

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|---|---|---|---|
| 941 | 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 | 17.1 | 171 |
| 940 | Metal contamination and bioremediation of agricultural soils for food safety and sustainability. *Nature Reviews Earth & Environment*, **2020**, 1, 366-381 | 30.2 | 171 |
| 939 | Graphene Nanoarchitectonics: Recent Advances in Graphene-Based Electrocatalysts for Hydrogen Evolution Reaction. *Advanced Materials*, **2019**, 31, e1903415 | 24 | 170 |
| 938 | Recent progress in mesoporous titania materials: adjusting morphology for innovative applications. *Science and Technology of Advanced Materials*, **2012**, 13, 013003 | 7.1 | 166 |
| 937 | Nanostructured nonprecious metal catalysts for electrochemical reduction of carbon dioxide. *Nano Today*, **2016**, 11, 373-391 | 17.9 | 165 |
| 936 | Defect-Rich Graphene Nanomesh Produced by Thermal Exfoliation of Metal-Organic Frameworks for the Oxygen Reduction Reaction. *Angewandte Chemie - International Edition*, **2019**, 58, 13354-13359 | 16.4 | 164 |
| 935 | Mesoporous metallic rhodium nanoparticles. *Nature Communications*, **2017**, 8, 15581 | 17.4 | 163 |
| 934 | Large Cs adsorption capability of nanostructured Prussian Blue particles with high accessible surface areas. *Journal of Materials Chemistry*, **2012**, 22, 18261 | | 159 |
| 933 | A case study on fibrous porous SnO2 anode for robust, high-capacity lithium-ion batteries. *Nano Energy*, **2014**, 10, 53-62 | 17.1 | 158 |
| 932 | Facile Synthesis of Three-Dimensional Dendritic Platinum Nanoelectrocatalyst. *Chemistry of Materials*, **2009**, 21, 3562-3569 | 9.6 | 158 |
| 931 | Large-scale synthesis of reduced graphene oxides with uniformly coated polyaniline for supercapacitor applications. *ChemSusChem*, **2014**, 7, 1551-6 | 8.3 | 156 |
| 930 | Aqueous colloidal mesoporous nanoparticles with ethenylene-bridged silsesquioxane frameworks. *Journal of the American Chemical Society*, **2011**, 133, 8102-5 | 16.4 | 156 |
| 929 | Nanoarchitectured metal–organic framework/polypyrrole hybrids for brackish water desalination using capacitive deionization. *Materials Horizons*, **2019**, 6, 1433-1437 | 14.4 | 154 |
| 928 | Nanoarchitectured Structure and Surface Biofunctionality of Mesoporous Silica Nanoparticles. *Advanced Materials*, **2020**, 32, e1907035 | 24 | 153 |
| 927 | Nano-micro-porous skutterudites with 100% enhancement in ZT for high performance thermoelectricity. *Nano Energy*, **2017**, 31, 152-159 | 17.1 | 152 |
| 926 | Synthesis of Superparamagnetic Nanoporous Iron Oxide Particles with Hollow Interiors by Using Prussian Blue Coordination Polymers. *Chemistry of Materials*, **2012**, 24, 2698-2707 | 9.6 | 152 |
| 925 | Electrochemical synthesis of mesoporous gold films toward mesospace-stimulated optical properties. *Nature Communications*, **2015**, 6, 6608 | 17.4 | 151 |
| 924 | 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 | 4.9 | 151 |

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| 923 | Polymeric micelle assembly for the smart synthesis of mesoporous platinum nanospheres with tunable pore sizes. *Angewandte Chemie - International Edition*, **2015**, 54, 11073-7 | 16.4 | 149 |
| 922 | MOF-derived Nanoporous Carbon as Intracellular Drug Delivery Carriers. *Chemistry Letters*, **2014**, 43, 717-719 | 1.7 | 149 |
| 921 | Facile solution synthesis of Ag@Pt core-shell nanoparticles with dendritic Pt shells. *Physical Chemistry Chemical Physics*, **2013**, 15, 3490-6 | 3.6 | 148 |
| 920 | Synthesis of Mesoporous Pt Films with Tunable Pore Sizes from Aqueous Surfactant Solutions. *Chemistry of Materials*, **2012**, 24, 1591-1598 | 9.6 | 148 |
| 919 | All-metal layer-by-layer films: bimetallic alternate layers with accessible mesopores for enhanced electrocatalysis. *Journal of the American Chemical Society*, **2012**, 134, 10819-21 | 16.4 | 148 |
| 918 | Multi-Stimuli-Responsive Polymeric Materials. *Chemistry - A European Journal*, **2015**, 21, 13164-74 | 4.8 | 147 |
| 917 | Mesoporous metallic cells: design of uniformly sized hollow mesoporous Pt-Ru particles with tunable shell thicknesses. *Small*, **2013**, 9, 1047-51 | 11 | 146 |
| 916 | Synthesis of electro-deposited ordered mesoporous RuOx using lyotropic liquid crystal and application toward micro-supercapacitors. *Journal of Power Sources*, **2013**, 227, 153-160 | 8.9 | 143 |
| 915 | Sub-50 nm Iron-Nitrogen-Doped Hollow Carbon Sphere-Encapsulated Iron Carbide Nanoparticles as Efficient Oxygen Reduction Catalysts. *Advanced Science*, **2018**, 5, 1800120 | 13.6 | 140 |
| 914 | Highly biocompatible, hollow coordination polymer nanoparticles as cisplatin carriers for efficient intracellular drug delivery. *Chemical Communications*, **2012**, 48, 5151-3 | 5.8 | 140 |
| 913 | Field-Induced alignment controls of one-dimensional mesochannels in mesoporous materials. *Journal of the Ceramic Society of Japan*, **2013**, 121, 831-840 | 1 | 139 |
| 912 | 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 | 14.4 | 138 |
| 911 | Pore-tuning to boost the electrocatalytic activity of polymeric micelle-templated mesoporous Pd nanoparticles. *Chemical Science*, **2019**, 10, 4054-4061 | 9.4 | 138 |
| 910 | Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. *Angewandte Chemie - International Edition*, **2016**, 55, 8228-34 | 16.4 | 138 |
| 909 | Evaporation-induced coating of hydrous ruthenium oxide on mesoporous silica nanoparticles to develop high-performance supercapacitors. *Small*, **2013**, 9, 2520-6 | 11 | 138 |
| 908 | 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 | 7.8 | 137 |
| 907 | Direct synthesis of nanoporous carbon nitride fibers using Al-based porous coordination polymers (Al-PCPs). *Chemical Communications*, **2011**, 47, 8124-6 | 5.8 | 137 |
| 906 | Hierarchical mesoporous yolk-shell structured carbonaceous nanospheres for high performance electrochemical capacitive energy storage. *Chemical Communications*, **2015**, 51, 2518-21 | 5.8 | 136 |

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| 905 | Self-assembly of block copolymers towards mesoporous materials for energy storage and conversion systems. *Chemical Society Reviews*, **2020**, 49, 4681-4736 | 58.5 | 136 |
| 904 | 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 | 14.7 | 134 |
| 903 | Controlling Particle Size and Structural Properties of Mesoporous Silica Nanoparticles Using the Taguchi Method. *Journal of Physical Chemistry C*, **2011**, 115, 13158-13165 | 3.8 | 134 |
| 902 | Rechargeable lithium–air batteries: a perspective on the development of oxygen electrodes. *Journal of Materials Chemistry A*, **2016**, 4, 14050-14068 | 13 | 132 |
| 901 | Polymeric micelle assembly for preparation of large-sized mesoporous metal oxides with various compositions. *Langmuir*, **2014**, 30, 651-9 | 4 | 132 |
| 900 | Rapid and Efficient Synthesis of Platinum Nanodendrites with High Surface Area by Chemical Reduction with Formic Acid. *Chemistry of Materials*, **2010**, 22, 2835-2841 | 9.6 | 130 |
| 899 | Self-assembly of nickel phosphate-based nanotubes into two-dimensional crumpled sheet-like architectures for high-performance asymmetric supercapacitors. *Nano Energy*, **2020**, 67, 104270 | 17.1 | 129 |
| 898 | Ordered Mesoporous Cobalt Phosphate with Crystallized Walls toward Highly Active Water Oxidation Electrocatalysts. *Small*, **2016**, 12, 1709-15 | 11 | 128 |
| 897 | Ultrahigh capacitive deionization performance by 3D interconnected MOF-derived nitrogen-doped carbon tubes. *Chemical Engineering Journal*, **2020**, 390, 124493 | 14.7 | 127 |
| 896 | Mesoporous Iron Phosphonate Electrodes with Crystalline Frameworks for Lithium-Ion Batteries. *Chemistry of Materials*, **2015**, 27, 1082-1089 | 9.6 | 127 |
| 895 | Biocompatible, surface functionalized mesoporous titania nanoparticles for intracellular imaging and anticancer drug delivery. *Chemical Communications*, **2011**, 47, 5232-4 | 5.8 | 127 |
| 894 | Evolution of standing mesochannels on porous anodic alumina substrates with designed conical holes. *Journal of the American Chemical Society*, **2008**, 130, 10165-70 | 16.4 | 127 |
| 893 | Fullerene crystals with bimodal pore architectures consisting of macropores and mesopores. *Journal of the American Chemical Society*, **2013**, 135, 586-9 | 16.4 | 125 |
| 892 | Reduced graphene oxide nanosheets decorated with Au, Pd and Au–Pd bimetallic nanoparticles as highly efficient catalysts for electrochemical hydrogen generation. *Journal of Materials Chemistry A*, **2015**, 3, 20254-20266 | 13 | 121 |
| 891 | Direct growth of cobalt hydroxide rods on nickel foam and its application for energy storage. *Chemistry - A European Journal*, **2014**, 20, 3084-8 | 4.8 | 120 |
| 890 | Electrochemical deposition of mesoporous Pt-Au alloy films in aqueous surfactant solutions: towards a highly sensitive amperometric glucose sensor. *Chemistry - A European Journal*, **2013**, 19, 2242-6 | 4.8 | 119 |
| 889 | Block copolymer assisted synthesis of porous α-Ni(OH)2 microflowers with high surface areas as electrochemical pseudocapacitor materials. *Chemical Communications*, **2012**, 48, 9150-2 | 5.8 | 119 |
| 888 | Extraordinary capacitive deionization performance of highly-ordered mesoporous carbon nano-polyhedra for brackish water desalination. *Environmental Science: Nano*, **2019**, 6, 981-989 | 7.1 | 119 |

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| 887 | Superparamagnetic nanoarchitectures for disease-specific biomarker detection. *Chemical Society Reviews*, **2019**, 48, 5717-5751 | 58.5 | 119 |
| 886 | Large-Scale Synthesis of MOF-Derived Superporous Carbon Aerogels with Extraordinary Adsorption Capacity for Organic Solvents. *Angewandte Chemie - International Edition*, **2020**, 59, 2066-2070 | 16.4 | 118 |
| 885 | 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 | 9.5 | 117 |
| 884 | Synthesis of mesoporous TiO2/SiO2 hybrid films as an efficient photocatalyst by polymeric micelle assembly. *Chemistry - A European Journal*, **2014**, 20, 6027-32 | 4.8 | 117 |
| 883 | Development of Sulfonic-Acid-Functionalized Mesoporous Materials: Synthesis and Catalytic Applications. *Chemistry - A European Journal*, **2019**, 25, 1614-1635 | 4.8 | 117 |
| 882 | 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 | 13 | 117 |
| 881 | Mesoporous platinum with giant mesocages templated from lyotropic liquid crystals consisting of diblock copolymers. *Angewandte Chemie - International Edition*, **2008**, 47, 5371-3 | 16.4 | 116 |
| 880 | Size- and shape-controlled synthesis of Prussian Blue nanoparticles by a polyvinylpyrrolidone-assisted crystallization process. *CrystEngComm*, **2012**, 14, 3387 | 3.3 | 115 |
| 879 | Unprecedented capacitive deionization performance of interconnected iron□nitrogen-doped carbon tubes in oxygenated saline water. *Materials Horizons*, **2020**, 7, 1404-1412 | 14.4 | 114 |
| 878 | Nanoarchitecture of MOF-derived nanoporous functional composites for hybrid supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 15065-15072 | 13 | 113 |
| 877 | Block copolymer assisted synthesis of bimetallic colloids with Au core and nanodendritic Pt shell. *Chemical Communications*, **2010**, 46, 3684-6 | 5.8 | 112 |
| 876 | 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 | 13 | 111 |
| 875 | One-Step Synthetic Strategy of Hybrid Materials from Bimetallic Metal□Organic Frameworks for Supercapacitor Applications. *ACS Applied Energy Materials*, **2018**, 1, 2007-2015 | 6.1 | 111 |
| 874 | Highly ordered acid functionalized SBA-15: a novel organocatalyst for the preparation of xanthenes. *Chemical Communications*, **2011**, 47, 6677-9 | 5.8 | 111 |
| 873 | Unusual antibacterial property of mesoporous titania films: drastic improvement by controlling surface area and crystallinity. *Chemistry - an Asian Journal*, **2010**, 5, 1978-83 | 4.5 | 111 |
| 872 | Stable Blue Luminescent CsPbBr Perovskite Nanocrystals Confined in Mesoporous Thin Films. *Angewandte Chemie - International Edition*, **2018**, 57, 8881-8885 | 16.4 | 110 |
| 871 | Gigantic swelling of inorganic layered materials: a bridge to molecularly thin two-dimensional nanosheets. *Journal of the American Chemical Society*, **2014**, 136, 5491-500 | 16.4 | 109 |
| 870 | Cellulose-to-HMF conversion using crystalline mesoporous titania and zirconia nanocatalysts in ionic liquid systems. *RSC Advances*, **2013**, 3, 2028-2034 | 3.7 | 109 |

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| 869 | Unusually stable ~100-fold reversible and instantaneous swelling of inorganic layered materials. *Nature Communications*, **2013**, 4, 1632 | 17.4 | 109 |
| 868 | New trend on mesoporous films: precise controls of one-dimensional (1D) mesochannels toward innovative applications. *Journal of Materials Chemistry*, **2011**, 21, 8934 | | 108 |
| 867 | Pt fibers with stacked donut-like mesospace by assembling pt nanoparticles: guided deposition in physically confined self-assembly of surfactants. *Journal of the American Chemical Society*, **2008**, 130, 5426-7 | 16.4 | 108 |
| 866 | Recent Advances in Graphene Quantum Dots: Synthesis, Properties, and Applications. *Small Methods*, **2018**, 2, 1800050 | 12.8 | 108 |
| 865 | Everlasting Living and Breathing Gyroid 3D Network in Si@SiOx/C Nanoarchitecture for Lithium Ion Battery. *ACS Nano*, **2019**, 13, 9607-9619 | 16.7 | 106 |
| 864 | Structural study of highly ordered mesoporous silica thin films and replicated Pt nanowires by high-resolution scanning electron microscopy (HRSEM). *Journal of Materials Chemistry*, **2006**, 16, 3091 | | 106 |
| 863 | Porous nanoarchitectures of spinel-type transition metal oxides for electrochemical energy storage systems. *Physical Chemistry Chemical Physics*, **2015**, 17, 30963-77 | 3.6 | 105 |
| 862 | General synthesis of hierarchical sheet/plate-like M-BDC (M = Cu, Mn, Ni, and Zr) metal-organic frameworks for electrochemical non-enzymatic glucose sensing. *Chemical Science*, **2020**, 11, 3644-3655 | 9.4 | 105 |
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