

# Yusuke Yamauchi

## 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.

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	Chitosan Gel Modified Mesoporous Gold Chronocoulometric Sensor for Ultrasensitive Detection of MicroRNA. <i>Bulletin of the Chemical Society of Japan</i> , <b>2022</b> , 95, 198-207	5.1	3
1011	Tailoring the Structure of Chitosan-Based Porous Carbon Nanofiber Architectures toward Efficient Capacitive Charge Storage and Capacitive Deionization.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	3
1010	Frontiers in Mesoscale Materials Design. <i>NIMS Monographs</i> , <b>2022</b> , 51-70	0.3	
1009	Engineering Stress in Thin Films: An Innovative Pathway Toward 3D Micro and Nanosystems (Small 4/2022). <i>Small</i> , <b>2022</b> , 18, 2270019	11	
1008	2D boron nanosheet architectonics: opening new territories by smart functionalization. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 2736-2750	13	1
1007	Cu-based MOF-derived architecture with Cu/CuO nanospheres anchored on porous carbon nanosheets for efficient capacitive deionization.. <i>Environmental Research</i> , <b>2022</b> , 112909	7.9	1
1006	A General Concurrent Template Strategy for Ordered Mesoporous Intermetallic Nanoparticles with Controllable Catalytic Performance.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	4
1005	Tailoring the Surface and Interface Structures of Copper-Based Catalysts for Electrochemical Reduction of CO to Ethylene and Ethanol.. <i>Small</i> , <b>2022</b> , e2107450	11	9
1004	Prussian blue analogue derived cobalt-nickel phosphide/carbon nanotube composite as electrocatalyst for efficient and stable hydrogen evolution reaction in wide-pH environment.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 616, 210-220	9.3	6
1003	Nanoarchitectonics of low-dimensional metal-organic frameworks toward photo/electrochemical CO <sub>2</sub> reduction reactions. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2022</b> , 57, 101883	7.6	5
1002	Materials informatics-guided superior electrocatalyst: A case of pyrolysis-free single-atom coordinated with N-graphene nanomesh. <i>Nano Energy</i> , <b>2022</b> , 94, 106868	17.1	2
1001	Defect engineering induced heterostructure of Zn-birnessite@spinel ZnMn <sub>2</sub> O <sub>4</sub> nanocrystal for flexible asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133115	14.7	2
1000	Flexible organohydrogel ionic skin with Ultra-Low temperature freezing resistance and Ultra-Durable moisture retention. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 608, 396-404	9.3	4
999	Gram-Scale production of Cu <sub>3</sub> P-Cu <sub>2</sub> O Janus nanoparticles into nitrogen and phosphorous doped porous carbon framework as bifunctional electrocatalysts for overall water splitting. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 130946	14.7	21
998	Heterointerface optimization in a covalent organic framework-on-MXene for high-performance capacitive deionization of oxygenated saline water.. <i>Materials Horizons</i> , <b>2022</b> ,	14.4	9
997	Mesoporous PdBi nanocages for enhanced electrocatalytic performances by all-direction accessibility and steric site activation.. <i>Chemical Science</i> , <b>2022</b> , 13, 3819-3825	9.4	5
996	MXene Nanoarchitectonics: Defect-Engineered 2D MXenes towards Enhanced Electrochemical Water Splitting. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103867	21.8	11

995	Boosting capacitive performance of manganese oxide nanorods by decorating with three-dimensional crushed graphene.. <i>Nano Convergence</i> , <b>2022</b> , 9, 10	9.2	4
994	Significant effect of synthesis methodologies of metal-organic frameworks upon the additively manufactured dual-mode triboelectric nanogenerator towards self-powered applications. <i>Nano Energy</i> , <b>2022</b> , 107253	17.1	5
993	Nanoarchitectonics of MXene/semiconductor heterojunctions toward artificial photosynthesis via photocatalytic CO <sub>2</sub> reduction. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 459, 214440	23.2	12
992	MOF-on-MOF nanoarchitectures for selectively functionalized nitrogen-doped carbon-graphitic carbon/carbon nanotubes heterostructure with high capacitive deionization performance. <i>Nano Energy</i> , <b>2022</b> , 97, 107146	17.1	10
991	Fullerphene Nanosheets: A Bottom-Up 2D Material for Single-Carbon-Atom-Level Molecular Discrimination (Adv. Mater. Interfaces 11/2022). <i>Advanced Materials Interfaces</i> , <b>2022</b> , 9, 2270062	4.6	
990	Ultra-stable sodium ion storage of biomass porous carbon derived from sugarcane. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136344	14.7	3
989	Metal-ion inserted vanadium oxide nanoribbons as high-performance cathodes for aqueous zinc-ion batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136861	14.7	0
988	Polyaniline coated MOF-derived MnO nanorods for efficient hybrid capacitive deionization.. <i>Environmental Research</i> , <b>2022</b> , 212, 113331	7.9	1
987	CeO quantum dots decorated nitrogen-doped hollow porous carbon for supercapacitors.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 622, 147-155	9.3	1
986	Nanoarchitected superparamagnetic iron oxide-doped mesoporous carbon nanozymes for glucose sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 366, 131980	8.5	2
985	New Trends in Nanoarchitected SERS Substrates: Nanospaces, 2D Materials, and Organic Heterostructures.. <i>Small</i> , <b>2022</b> , e2107182	11	5
984	Metal-Organic Framework-Derived Graphene Mesh: a Robust Scaffold for Highly Exposed Fe <sup>IV</sup> Active Sites toward an Excellent Oxygen Reduction Catalyst in Acid Media. <i>Journal of the American Chemical Society</i> , <b>2022</b> , 144, 9280-9291	16.4	12
983	Ultrathin nanosheet-assembled nickel-based metal-organic framework microflowers for supercapacitor applications.. <i>Chemical Communications</i> , <b>2021</b> ,	5.8	6
982	Efficient lithium-ion storage using a heterostructured porous carbon framework and its transmission electron microscopy study.. <i>Chemical Communications</i> , <b>2021</b> ,	5.8	4
981	Recent Advances and Perspectives of Battery-Type Anode Materials for Potassium Ion Storage. <i>ACS Nano</i> , <b>2021</b> ,	16.7	25
980	Two-Dimensional MXene-Polymer Heterostructure with Ordered In-Plane Mesochannels for High-Performance Capacitive Deionization. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26528-26534	16.4	30
979	Two-Dimensional MXene-Polymer Heterostructure with Ordered In-Plane Mesochannels for High-Performance Capacitive Deionization. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 26732	3.6	7
978	Borophene: Two-dimensional Boron Monolayer: Synthesis, Properties, and Potential Applications. <i>Chemical Reviews</i> , <b>2021</b> ,	68.1	16

977	Recycling Polymeric Solid Wastes for Energy-Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup (Small 46/2021). <i>Small</i> , <b>2021</b> , 17, 2170244	11	2
976	Realizing Superior Redox Kinetics of Hollow Bimetallic Sulfide Nanoarchitectures by Defect-Induced Manipulation toward Flexible Solid-State Supercapacitors. <i>Small</i> , <b>2021</b> , e2104507	11	9
975	Material Nanoarchitectonics of Functional Polymers and Inorganic Nanomaterials for Smart Supercapacitors. <i>Small</i> , <b>2021</b> , e2102397	11	2
974	0D-1D hybrid nanoarchitectonics: tailored design of FeCo@N-C yolk-shell nanoreactors with dual sites for excellent Fenton-like catalysis.. <i>Chemical Science</i> , <b>2021</b> , 12, 15418-15422	9.4	4
973	Phenyl-Modified Carbon Nitride Quantum Nanoflakes for Ultra-Highly Selective Sensing of Formic Acid: A Combined Experimental by QCM and Density Functional Theory Study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 48595-48610	9.5	2
972	Surface-Dependent Intermediate Adsorption Modulation on Iridium-Modified Black Phosphorus Electrocatalysts for Efficient pH-Universal Water Splitting. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104638	24	14
971	Nanoarchitectonics from 2D to 3D: MXenes-derived nitrogen-doped 3D nanofibrous architecture for extraordinarily-fast capacitive deionization. <i>Chemical Engineering Journal</i> , <b>2021</b> , 133161	14.7	24
970	Material Evolution with Nanotechnology, Nanoarchitectonics, and Materials Informatics: What will be the Next Paradigm Shift in Nanoporous Materials?. <i>Advanced Materials</i> , <b>2021</b> , e2107212	24	10
969	Activating a Multielectron Reaction of NASICON-Structured Cathodes toward High Energy Density for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 18091-18102	16.4	20
968	Transforming red mud into an efficient Acid-Base catalyst by hybridization with mesoporous ZSM-5 for Co-pyrolysis of biomass and plastics. <i>Chemical Engineering Journal</i> , <b>2021</b> , 132965	14.7	3
967	Gas sensing properties of polypyrrole/poly(N-vinylpyrrolidone) nanorods/nanotubes-coated quartz-crystal microbalance sensor. <i>Synthetic Metals</i> , <b>2021</b> , 282, 116935	3.6	2
966	Interfacial Assembled CeO <sub>2</sub> /[email protected] Carbon Hollow Nanohybrids for High-Performance LithiumSulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 14451-14460	8.3	6
965	Macroscopic MOF Architectures: Effective Strategies for Practical Application in Water Treatment. <i>Small</i> , <b>2021</b> , e2104387	11	12
964	Eliminating tetracycline antibiotics matrix via photoactivated sulfate radical-based advanced oxidation process over the immobilized MIL-88A: Batch and continuous experiments. <i>Chemical Engineering Journal</i> , <b>2021</b> , 431, 133213	14.7	7
963	Innentitelbild: DielsAlder Conversion of Acrylic Acid and 2,5-Dimethylfuran to para-Xylene Over Heterogeneous Bi-BTC Metal-Organic Framework Catalysts Under Mild Conditions (Angew. Chem. 2/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 522-522	3.6	
962	One-dimensional core-shell motif nanowires with chemically-bonded transition metal sulfide-carbon heterostructures for efficient sodium-ion storage.. <i>Chemical Science</i> , <b>2021</b> , 12, 15054-15060	9.4	4
961	Clinical features of elderly-onset Adult-onset Still's disease. <i>Modern Rheumatology</i> , <b>2021</b> , 31, 862-868	3.3	6
960	Nanoengineering Metal-Organic Framework-Based Materials for Use in Electrochemical CO Reduction Reactions. <i>Small</i> , <b>2021</b> , 17, e2006590	11	37

959	Significant Reduction in Thermal Conductivity and Improved Thermopower of Electron-Doped Ba <sub>1-x</sub> LaxTiO <sub>3</sub> with Nanostructured Rectangular Pores. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2001044	6.4	1
958	Single Atom-Based Nanoarchitected Electrodes for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2002159	4.6	9
957	Disposable Nitric Oxide Generator Based on a Structurally Deformed Nitrite-Type Layered Double Hydroxide. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 16008-16015	5.1	0
956	Mesoporous Rh nanoparticles as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 96, 371-375	6.3	5
955	Single-Atom Catalysts. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100436	4.6	0
954	Ti Tuning the Ratio of Cu /Cu in the Ultrafine Cu Nanoparticles for Boosting the Hydrogenation Reaction. <i>Small</i> , <b>2021</b> , 17, e2008052	11	4
953	Nitrogenization of Biomass-Derived Porous Carbon Microtubes Promotes Capacitive Deionization Performance. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 1645-1650	5.1	4
952	Adsorchromism: Molecular Nanoarchitectonics at 2D Nanosheets-Old Chemistry for Advanced Chromism. <i>Advanced Science</i> , <b>2021</b> , 8, 2100539	13.6	8
951	Enantioselective SERS sensing of pseudoephedrine in blood plasma biomatrix by hierarchical mesoporous Au films coated with a homochiral MOF. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 180, 113109	11.8	18
950	Exceptionally stable green rust, a mixed-valent iron-layered double hydroxide, as an efficient solar photocatalyst for H <sub>2</sub> production from ammonia borane. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 286, 119854	21.8	8
949	Light-conversion phosphor nanoarchitectonics for improved light harvesting in sensitized solar cells. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2021</b> , 47, 100404	16.4	15
948	Nanoarchitected Porous Conducting Polymers: From Controlled Synthesis to Advanced Applications. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007318	24	19
947	Carbon Nitride Functionalized with Sb Resulting in High Photocatalytic Activity. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 5677-5686	6.1	1
946	Electrochemical energy storage performance of 2D nanoarchitected hybrid materials. <i>Nature Communications</i> , <b>2021</b> , 12, 3563	17.4	16
945	Extracellular Vesicle Nanoarchitectonics for Novel Drug Delivery Applications. <i>Small</i> , <b>2021</b> , 17, e2102220	11	16
944	Solar-Powered Sustainable Water Production: State-of-the-Art Technologies for Sunlight-Energy-Water Nexus. <i>ACS Nano</i> , <b>2021</b> ,	16.7	48
943	Reverse micelle-mediated synthesis of plate-assembled hierarchical three-dimensional flower-like gamma-alumina particles. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 321, 111055	5.3	7
942	Aqueous Formate-Based Li-CO <sub>2</sub> Battery with Low Charge Overpotential and High Working Voltage. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101630	21.8	4

941	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 145, 111029	16.2	24
940	Spatial-controlled etching of coordination polymers. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 635-641	8.1	2
939	Metal-incorporated mesoporous oxides: Synthesis and applications. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 401, 123348	12.8	10
938	Hollow carbon architectures with mesoporous shells via self-sacrificial templating strategy using metal-organic frameworks. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 127635	14.7	6
937	Self-templated fabrication of hierarchical hollow manganese-cobalt phosphide yolk-shell spheres for enhanced oxygen evolution reaction. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126580	14.7	72
936	Morphologically controlled cobalt oxide nanoparticles for efficient oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 582, 322-332	9.3	22
935	Ti3C2 MXenes-derived NaTi2(PO4)3/MXene nanohybrid for fast and efficient hybrid capacitive deionization performance. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127148	14.7	65
934	Microporous nickel phosphonate derived heteroatom doped nickel oxide and nickel phosphide: Efficient electrocatalysts for oxygen evolution reaction. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126803	14.7	27
933	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to para-Xylene Over Heterogeneous Bi-BTC Metal-Organic Framework Catalysts Under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 624-629	16.4	7
932	Highly efficient water desalination by capacitive deionization on biomass-derived porous carbon nanoflakes. <i>Separation and Purification Technology</i> , <b>2021</b> , 256, 117771	8.3	39
931	Auto-programmed synthesis of metallic aerogels: Core-shell Cu@Fe@Ni aerogels for efficient oxygen evolution reaction. <i>Nano Energy</i> , <b>2021</b> , 81, 105644	17.1	21
930	Nanoarchitected porous organic polymers and their environmental applications for removal of toxic metal ions. <i>Chemical Engineering Journal</i> , <b>2021</b> , 408, 127991	14.7	22
929	Tailored Catalytic Nanoframes from Metal-Organic Frameworks by Anisotropic Surface Modification and Etching for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4747-4755	16.4	28
928	Universal Electrochemical Synthesis of Mesoporous Chalcogenide Semiconductors: Mesoporous CdSe and CdTe Thin Films for Optoelectronic Applications. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 9660-9665	16.4	6
927	Sorghum biomass-derived porous carbon electrodes for capacitive deionization and energy storage. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 312, 110757	5.3	20
926	Nitroxide radical polymers for emerging plastic energy storage and organic electronics: fundamentals, materials, and applications. <i>Materials Horizons</i> , <b>2021</b> , 8, 803-829	14.4	25
925	Hollow Carbon-Based Nanoarchitectures Based on ZIF: Inward/Outward Contraction Mechanism and Beyond. <i>Small</i> , <b>2021</b> , 17, e2004142	11	21
924	Universal Electrochemical Synthesis of Mesoporous Chalcogenide Semiconductors: Mesoporous CdSe and CdTe Thin Films for Optoelectronic Applications. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9746-9751	3.6	0

923	Tailored Catalytic Nanoframes from Metal-Organic Frameworks by Anisotropic Surface Modification and Etching for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4797-4805	3.6	6
922	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to para-Xylene Over Heterogeneous Bi-BTC Metal-Organic Framework Catalysts Under Mild Conditions. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 634-639	3.6	3
921	Nanoarchitected porous carbons derived from ZIFs toward highly sensitive and selective QCM sensor for hazardous aromatic vapors. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 405, 124248	12.8	12
920	Superconducting Joining Concept for Internal Magnesium Diffusion-Processed Magnesium Diboride Wires. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 3349-3357	9.5	6
919	Synthetic and natural MOR zeolites as high-capacity adsorbents for the removal of nitrous oxide. <i>Chemical Communications</i> , <b>2021</b> , 57, 1312-1315	5.8	5
918	Mesoporous TiO <sub>2</sub> -based architectures as promising sensing materials towards next-generation biosensing applications. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 1189-1207	7.3	14
917	ZIF-8 derived hollow carbon to trap polysulfides for high performance lithium-sulfur batteries. <i>Nanoscale</i> , <b>2021</b> , 13, 11086-11092	7.7	5
916	Electrochemical Activity of Nitrogen-Containing Groups in Organic Electrode Materials and Related Improvement Strategies. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002523	21.8	16
915	Graphene-carbon 2D heterostructures with hierarchically-porous P,N-doped layered architecture for capacitive deionization. <i>Chemical Science</i> , <b>2021</b> , 12, 10334-10340	9.4	45
914	Performance of metal-organic frameworks in the electrochemical sensing of environmental pollutants. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 8195-8220	13	48
913	Fabrication and Characterization of Prussian Blue-Derived Iron Carbide-Iron Oxide Hybrid on Reduced Graphene Oxide Nanosheets. <i>KONA Powder and Particle Journal</i> , <b>2021</b> , 38, 260-268	3.4	1
912	Soft template-mediated coupling construction of sandwiched mesoporous PPy/Ag nanoplates for rapid and selective NH <sub>3</sub> sensing. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 8308-8316	13	8
911	Significant role of thorny surface morphology of polyaniline on adsorption of triiodide ions towards counter electrode in dye-sensitized solar cells. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 5958-5970	3.6	5
910	Free-standing membranes from the chemical exfoliation of mesoporous amorphous titania thin film. <i>Chemical Communications</i> , <b>2021</b> , 57, 7513-7516	5.8	1
909	Highly dispersed secondary building unit-stabilized binary metal center on a hierarchical porous carbon matrix for enhanced oxygen evolution reaction. <i>Nanoscale</i> , <b>2021</b> , 13, 1213-1219	7.7	10
908	Core-shell MOF@COF Motif Hybridization: Selectively Functionalized Precursors for Titanium Dioxide Nanoparticle-Embedded Nitrogen-Rich Carbon Architectures with Superior Capacitive Deionization Performance. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1657-1666	9.6	41
907	Mesoporous Alumina-Titania Composites with Enhanced Molybdenum Adsorption towards Medical Radioisotope Production. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 502-507	5.1	4
906	New Insights into the Lithium-Ion Diffusion Mechanism in Vanadate Compounds. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 886-892	20.1	4

905	In Search of Excellence: Convex versus Concave Noble Metal Nanostructures for Electrocatalytic Applications. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004554	24	12
904	Synergistic Electrocatalytic Hydrogen Evolution in Ni/NiS Nanoparticles Wrapped in Multi-Heteroatom-Doped Reduced Graphene Oxide Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 34043-34052	9.5	4
903	1D-2D Synergistic MXene-Nanotubes Hybrids for Efficient Perovskite Solar Cells. <i>Small</i> , <b>2021</b> , 17, e2101925	12.5	11
902	Direct Z-scheme CuInS/BiMoO heterostructure for enhanced photocatalytic degradation of tetracycline under visible light. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 415, 125591	12.8	44
901	Metal-Organic Framework-Derived CoO/Carbon Composite Array for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 41649-41656	9.5	4
900	Unlocking the Potential of Oxygen-Deficient Copper-Doped Co <sub>3</sub> O <sub>4</sub> Nanocrystals Confined in Carbon as an Advanced Electrode for Flexible Solid-State Supercapacitors. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 3011-3019	20.1	38
899	KOH-Activated Hollow ZIF-8 Derived Porous Carbon: Nanoarchitected Control for Upgraded Capacitive Deionization and Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	21
898	Nanoarchitecturing Carbon Nanodot Arrays on Zeolitic Imidazolate Framework-Derived Cobalt-Nitrogen-Doped Carbon Nanoflakes toward Oxygen Reduction Electrocatalysts. <i>ACS Nano</i> , <b>2021</b> ,	16.7	8
897	Three-Dimensional Fast Na-Ion Transport in Sodium Titanate Nanoarchitectures via Engineering of Oxygen Vacancies and Bismuth Substitution. <i>ACS Nano</i> , <b>2021</b> ,	16.7	8
896	Defect-Rich Hierarchical Porous UiO-66(Zr) for Tunable Phosphate Removal. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 13209-13218	10.3	5
895	Super-theoretical capacity mechanism of hollow nano-corn cob-like cobalt oxide. <i>Chemical Engineering Journal</i> , <b>2021</b> , 132700	14.7	1
894	Nanoarchitectonics of Metal-Organic Frameworks for Capacitive Deionization via Controlled Pyrolyzed Approaches. <i>Small</i> , <b>2021</b> , e2102477	11	7
893	Mesoporous Au films assembled on flexible cellulose nanopaper as high-performance SERS substrates. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129445	14.7	26
892	Programmed design of selectively-functionalized wood aerogel: Affordable and mildew-resistant solar-driven evaporator. <i>Nano Energy</i> , <b>2021</b> , 87, 106146	17.1	19
891	Cesium-doped Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene for efficient and thermally stable perovskite solar cells. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100598	6.1	6
890	Heterostructuring Mesoporous 2D Iridium Nanosheets with Amorphous Nickel Boron Oxide Layers to Improve Electrolytic Water Splitting.. <i>Small Methods</i> , <b>2021</b> , 5, e2100679	12.8	11
889	Recycling Polymeric Solid Wastes for Energy-Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. <i>Small</i> , <b>2021</b> , 17, e2102459	11	2
888	Recent Advances in Faradic Electrochemical Deionization: System Architectures Electrode Materials. <i>ACS Nano</i> , <b>2021</b> , 15, 13924-13942	16.7	21



887	Re-oxidation reconstruction process of solid electrolyte interphase layer derived from highly active anion for potassium-ion batteries. <i>Nano Energy</i> , <b>2021</b> , 87, 106150	17.1	9
886	Progress in Solid Polymer Electrolytes for Lithium-Ion Batteries and Beyond. <i>Small</i> , <b>2021</b> , e2103617	11	13
885	Highly efficient photocatalytic degradation of different hazardous contaminants by CaIn <sub>2</sub> S <sub>4</sub> -Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Schottky heterojunction: An experimental and mechanism study. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 127838	14.7	60
884	Superconducting joints using multifilament MgB <sub>2</sub> wires for MRI application. <i>Scripta Materialia</i> , <b>2021</b> , 204, 114156	5.6	1
883	Phosphorus-doped molybdenum carbide/MXene hybrid architectures for upgraded hydrogen evolution reaction performance over a wide pH range. <i>Chemical Engineering Journal</i> , <b>2021</b> , 423, 130183	14.7	10
882	A novel technique to remove a foreign body in a distal bronchus in a child. <i>Journal of Clinical Anesthesia</i> , <b>2021</b> , 75, 110513	1.9	0
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880	Heteroarchitecturing a novel three-dimensional hierarchical MoO <sub>2</sub> /MoS <sub>2</sub> /carbon electrode material for high-energy and long-life lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13001-13007	13	8
879	Ultra-durable, multi-template molecularly imprinted polymers for ultrasensitive monitoring and multicomponent quantification of trace sulfa antibiotics. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 3192-3199	7.3	2
878	Oxi-Redox Selective Breast Cancer Treatment: An In Vitro Study of Theranostic In-Based Oxide Nanoparticles for Controlled Generation or Prevention of Oxidative Stress. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 2204-2217	9.5	2
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876	Nano Polymorphism-Enabled Redox Electrodes for Rechargeable Batteries. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004920	24	13
875	Engineering Stress in Thin Films: An Innovative Pathway Toward 3D Micro and Nanosystems. <i>Small</i> , <b>2021</b> , e2105748	11	1
874	Nanoarchitectonics for Abused-Drug Biosensors. <i>Small</i> , <b>2021</b> , e2104847	11	3
873	Amorphous Alloy Architectures in Pore Walls: Mesoporous Amorphous NiCoB Alloy Spheres with Controlled Compositions a Chemical Reduction. <i>ACS Nano</i> , <b>2020</b> ,	16.7	7
872	Tunable Concave Surface Features of Mesoporous Palladium Nanocrystals Prepared from Supramolecular Micellar Templates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 51357-51365	9.5	3
871	Heteroporous bifluorenylidene-based covalent organic frameworks displaying exceptional dye adsorption behavior and high energy storage. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 25148-25155	13	33
870	Stable and Efficient Tin-Based Perovskite Solar Cell via Semiconducting/Insulating Structure. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10447-10452	6.1	10

869	Significant Improvement in Electrical Conductivity and Figure of Merit of Nanoarchitected Porous SrTiO by La Doping Optimization. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28057-28064	9.5	15
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867	A General Approach to Shaped MOF-Containing Aerogels toward Practical Water Treatment Application. <i>Advanced Sustainable Systems</i> , <b>2020</b> , 4, 2000060	5.9	17
866	MOF-derived hybrid nanoarchitected carbons for gas discrimination of volatile aromatic hydrocarbons. <i>Carbon</i> , <b>2020</b> , 168, 55-64	10.4	12
865	Excellent electronic conductivity, insolubility and rate characteristics of DAAP based on chemical bonding with carbon fiber felt. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11521-11528	13	4
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850	General Formation of Macro-/Mesoporous Nanoshells from Interfacial Assembly of Irregular Mesostructured Nanounits. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19663-19668	16.4	17
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752	Tailored synthesis of Zn-N co-doped porous MoC nanosheets towards efficient hydrogen evolution. <i>Nanoscale</i> , <b>2019</b> , 11, 1700-1709	7.7	29
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635	Chemical Synthesis of Porous Barium Titanate Thin Film and Thermal Stabilization of Ferroelectric Phase by Porosity-Induced Strain. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	4
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630	Efficient wide range electrochemical bisphenol-A sensor by self-supported dendritic platinum nanoparticles on screen-printed carbon electrode. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 2800-2808	8.5	48
629	Hydrogen Peroxide Assisted Selective Oxidation of 5-Hydroxymethylfurfural in Water under Mild Conditions. <i>ChemCatChem</i> , <b>2018</b> , 10, 361-365	5.2	44
628	Porous nanozymes: the peroxidase-mimetic activity of mesoporous iron oxide for the colorimetric and electrochemical detection of global DNA methylation. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 4783-4791	7.3	59
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621	Electrochemical Deposition: An Advanced Approach for Templated Synthesis of Nanoporous Metal Architectures. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 1764-1773	24.3	218
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614	Evaluation of a solid nitrogen impregnated MgB <sub>2</sub> racetrack coil. <i>Superconductor Science and Technology</i> , <b>2018</b> , 31, 105010	3.1	20
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236	Bottom-up synthesis of monodispersed single-crystalline cyano-bridged coordination polymer nanoflakes. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 1235-9	16.4	80
235	Kinetically controlled crystallization for synthesis of monodispersed coordination polymer nanocubes and their self-assembly to periodic arrangements. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 1882-5	4.8	100
234	Bottom-Up Synthesis of Monodispersed Single-Crystalline Cyano-Bridged Coordination Polymer Nanoflakes. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 1273-1277	3.6	21
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229	A new family of carbon materials: synthesis of MOF-derived nanoporous carbons and their promising applications. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14-19	13	670
228	Enzyme nanoarchitectonics: organization and device application. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 6322-45	58.5	330
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218	Naked-eye discrimination of methanol from ethanol using composite film of oxoporphyrinogen and layered double hydroxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 5927-30	9.5	44
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215	Controlled Synthesis of Well-Ordered Mesoporous Titania Films with Large Mesopores Templated by Spherical PS-b-PEO Micelles. <i>European Journal of Inorganic Chemistry</i> , <b>2013</b> , 2013, 3286-3291	2.3	12
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213	Tailored design of multiple nanoarchitectures in metal-cyanide hybrid coordination polymers. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 384-91	16.4	199
212	Metallic nanocages: synthesis of bimetallic Pt-Pd hollow nanoparticles with dendritic shells by selective chemical etching. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16762-5	16.4	416
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198	Mesoporous metallic cells: design of uniformly sized hollow mesoporous Pt-Ru particles with tunable shell thicknesses. <i>Small</i> , <b>2013</b> , 9, 1047-51	11	146
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104	Soft-Chemical Approach of Noble Metal Nanowires Templated from Mesoporous Silica (SBA-15) through Vapor Infiltration of a Reducing Agent. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 7586-7593	3.8	64
103	General synthesis of fibrous mesoporous metal oxides in polycarbonate membrane. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5294		41
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