

Kevin C-W Wu

List of Publications by Year in descending order

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251
papers

22,507
citations

9234

74
h-index

9073

144
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268
all docs

268
docs citations

268
times ranked

26820
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous silica nanoparticles as controlled release drug delivery and gene transfection carriers†. <i>Advanced Drug Delivery Reviews</i> , 2008, 60, 1278-1288.	6.6	2,357
2	Hierarchically porous carbon derived from polymers and biomass: effect of interconnected pores on energy applications. <i>Energy and Environmental Science</i> , 2014, 7, 3574-3592.	15.6	1,204
3	Layer-by-layer Nanoarchitectonics: Invention, Innovation, and Evolution. <i>Chemistry Letters</i> , 2014, 43, 36-68.	0.7	813
4	Nanoarchitected Design of Porous Materials and Nanocomposites from Metal-Organic Frameworks. <i>Advanced Materials</i> , 2017, 29, 1604898.	11.1	732
5	Imparting Functionality to Biocatalysts via Embedding Enzymes into Nanoporous Materials by a <i>de Novo</i> Approach: Size-Selective Sheltering of Catalase in Metal-Organic Framework Microcrystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 4276-4279.	6.6	674
6	Nanoporous carbons through direct carbonization of a zeolitic imidazolate framework for supercapacitor electrodes. <i>Chemical Communications</i> , 2012, 48, 7259.	2.2	624
7	Templated Synthesis for Nanoarchitected Porous Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1171-1200.	2.0	512
8	Mesoporous Silica Nanoparticles for Reducing Hemolytic Activity Towards Mammalian Red Blood Cells. <i>Small</i> , 2009, 5, 57-62.	5.2	465
9	Metal-organic framework (MOF)-derived catalysts for fine chemical production. <i>Coordination Chemistry Reviews</i> , 2020, 416, 213319.	9.5	427
10	Strategies for Improving the Functionality of Zeolitic Imidazolate Frameworks: Tailoring Nanoarchitectures for Functional Applications. <i>Advanced Materials</i> , 2017, 29, 1700213.	11.1	366
11	Nanoarchitectures for Mesoporous Metals. <i>Advanced Materials</i> , 2016, 28, 993-1010.	11.1	357
12	Nanoarchitected Structure and Surface Biofunctionality of Mesoporous Silica Nanoparticles. <i>Advanced Materials</i> , 2020, 32, e1907035.	11.1	336
13	Shielding against Unfolding by Embedding Enzymes in Metal-Organic Frameworks via a <i>de Novo</i> Approach. <i>Journal of the American Chemical Society</i> , 2017, 139, 6530-6533.	6.6	292
14	From Pd(OAc) ₂ to Chiral Catalysts: The Discovery and Development of Bifunctional Mono-N-Protected Amino Acid Ligands for Diverse C-H Functionalization Reactions. <i>Accounts of Chemical Research</i> , 2020, 53, 833-851.	7.6	283
15	Electrochemical Deposition: An Advanced Approach for Templated Synthesis of Nanoporous Metal Architectures. <i>Accounts of Chemical Research</i> , 2018, 51, 1764-1773.	7.6	277
16	Metal-Organic Framework (MOF)-Derived Effective Solid Catalysts for Valorization of Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13628-13643.	3.2	267
17	3D network of cellulose-based energy storage devices and related emerging applications. <i>Materials Horizons</i> , 2017, 4, 522-545.	6.4	261
18	Harnessing MOF materials in photovoltaic devices: recent advances, challenges, and perspectives. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17079-17095.	5.2	253

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19	Confined Self-Assembly in Two-Dimensional Interlayer Space: Monolayered Mesoporous Carbon Nanosheets with In-Plane Orderly Arranged Mesopores and a Highly Graphitized Framework. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2894-2898.	7.2	235
20	Engineering a homogeneous alloy-oxide interface derived from metal-organic frameworks for selective oxidation of 5-hydroxymethylfurfural to 2,5-furandicarboxylic acid. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118805.	10.8	232
21	Controlling physical features of mesoporous silicananoparticles (MSNs) for emerging applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 1251-1256.	6.7	185
22	Platinum-Free Counter Electrode Comprised of Metal-Organic-Framework (MOF)-Derived Cobalt Sulfide Nanoparticles for Efficient Dye-Sensitized Solar Cells (DSSCs). <i>Scientific Reports</i> , 2014, 4, 6983.	1.6	182
23	Advances in lignin valorization towards bio-based chemicals and fuels: Lignin biorefinery. <i>Bioresource Technology</i> , 2019, 291, 121878.	4.8	177
24	Recent progress in mesoporous titania materials: adjusting morphology for innovative applications. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 013003.	2.8	170
25	Large-Scale Synthesis of Reduced Graphene Oxides with Uniformly Coated Polyaniline for Supercapacitor Applications. <i>ChemSusChem</i> , 2014, 7, 1551-1556.	3.6	170
26	Controlling Particle Size and Structural Properties of Mesoporous Silica Nanoparticles Using the Taguchi Method. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13158-13165.	1.5	169
27	Recent progress in the development of biomass-derived nitrogen-doped porous carbon. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3703-3728.	5.2	167
28	MOF-derived Nanoporous Carbon as Intracellular Drug Delivery Carriers. <i>Chemistry Letters</i> , 2014, 43, 717-719.	0.7	165
29	Mesoporous Metallic Cells: Design of Uniformly Sized Hollow Mesoporous Pt-Ru Particles with Tunable Shell Thicknesses. <i>Small</i> , 2013, 9, 1047-1051.	5.2	159
30	Enhancing Efficiency and Stability of Photovoltaic Cells by Using Perovskite/Zr-MOF Heterojunction Including Bilayer and Hybrid Structures. <i>Advanced Science</i> , 2019, 6, 1801715.	5.6	159
31	Water-Based Synthesis of Zeolitic Imidazolate Framework-90 (ZIF-90) with a Controllable Particle Size. <i>Chemistry - A European Journal</i> , 2013, 19, 11139-11142.	1.7	158
32	Highly biocompatible, hollow coordination polymer nanoparticles as cisplatin carriers for efficient intracellular drug delivery. <i>Chemical Communications</i> , 2012, 48, 5151.	2.2	157
33	Construction Hierarchically Mesoporous/Microporous Materials Based on Block Copolymer and Covalent Organic Framework. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 112, 180-192.	2.7	155
34	Hollow mesoporous hydroxyapatite nanoparticles (hmHANPs) with enhanced drug loading and pH-responsive release properties for intracellular drug delivery. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2447.	2.9	151
35	Highly selective and high-performance osmotic power generators in subnanochannel membranes enabled by metal-organic frameworks. <i>Science Advances</i> , 2021, 7, .	4.7	151
36	Biocompatible, surface functionalized mesoporous titania nanoparticles for intracellular imaging and anticancer drug delivery. <i>Chemical Communications</i> , 2011, 47, 5232.	2.2	146

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37	Size- and shape-controlled synthesis of Prussian Blue nanoparticles by a polyvinylpyrrolidone-assisted crystallization process. <i>CrystEngComm</i> , 2012, 14, 3387.	1.3	143
38	Evaporation-Induced Coating of Hydrrous Ruthenium Oxide on Mesoporous Silica Nanoparticles to Develop High-Performance Supercapacitors. <i>Small</i> , 2013, 9, 2520-2526.	5.2	142
39	Cellulase immobilized mesoporous silica nanocatalysts for efficient cellulose-to-glucose conversion. <i>Green Chemistry</i> , 2011, 13, 2844.	4.6	140
40	Development of Sulfonic-Acid-Functionalized Mesoporous Materials: Synthesis and Catalytic Applications. <i>Chemistry - A European Journal</i> , 2019, 25, 1614-1635.	1.7	139
41	Formation of Highly Ordered Mesoporous Titania Films Consisting of Crystalline Nanopillars with Inverse Mesospace by Structural Transformation. <i>Journal of the American Chemical Society</i> , 2006, 128, 4544-4545.	6.6	138
42	Polymeric Micelle Assembly for Preparation of Large-Sized Mesoporous Metal Oxides with Various Compositions. <i>Langmuir</i> , 2014, 30, 651-659.	1.6	138
43	A metal-free, high nitrogen-doped nanoporous graphitic carbon catalyst for an effective aerobic HMF-to-FDCA conversion. <i>Green Chemistry</i> , 2016, 18, 5957-5961.	4.6	129
44	Block copolymer assisted synthesis of porous γ -Ni(OH) ₂ microflowers with high surface areas as electrochemical pseudocapacitor materials. <i>Chemical Communications</i> , 2012, 48, 9150.	2.2	124
45	Reduced graphene oxide nanosheets decorated with Au-Pd bimetallic alloy nanoparticles towards efficient photocatalytic degradation of phenolic compounds in water. <i>Nanoscale</i> , 2016, 8, 8276-8287.	2.8	124
46	Acid-base bi-functionalized, large-pored mesoporous silica nanoparticles for cooperative catalysis of one-pot cellulose-to-HMF conversion. <i>Journal of Materials Chemistry</i> , 2012, 22, 23181.	6.7	123
47	A Drying-Free, Water-Based Process for Fabricating Mixed-Matrix Membranes with Outstanding Pervaporation Performance. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12793-12796.	7.2	121
48	Cellulose-to-HMF conversion using crystalline mesoporous titania and zirconia nanocatalysts in ionic liquid systems. <i>RSC Advances</i> , 2013, 3, 2028-2034.	1.7	119
49	Conversion and kinetics study of fructose-to-5-hydroxymethylfurfural (HMF) using sulfonic and ionic liquid groups bi-functionalized mesoporous silica nanoparticles as recyclable solid catalysts in DMSO systems. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13914.	1.3	117
50	Structural study of highly ordered mesoporous silica thin films and replicated Pt nanowires by high-resolution scanning electron microscopy (HRSEM). <i>Journal of Materials Chemistry</i> , 2006, 16, 3091.	6.7	116
51	New trend on mesoporous films: precise controls of one-dimensional (1D) mesochannels toward innovative applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 8934.	6.7	112
52	Integrated, Cascading Enzyme-Chemocatalytic Cellulose Conversion using Catalysts based on Mesoporous Silica Nanoparticles. <i>ChemSusChem</i> , 2014, 7, 3241-3246.	3.6	106
53	Enzymatic breakdown of biomass: enzyme active sites, immobilization, and biofuel production. <i>Green Chemistry</i> , 2014, 16, 4615-4626.	4.6	105
54	Functionalized Fe ₃ O ₄ @Silica Core-Shell Nanoparticles as Microalgae Harvester and Catalyst for Biodiesel Production. <i>ChemSusChem</i> , 2015, 8, 789-794.	3.6	105

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55	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111029.	8.2	105
56	A Glucose-Assisted Hydrothermal Reaction for Directly Transforming Metal-Organic Frameworks into Hollow Carbonaceous Materials. <i>Chemistry of Materials</i> , 2018, 30, 4401-4408.	3.2	102
57	Cosynthesis of Cargo-Loaded Hydroxyapatite/Alginate Core-Shell Nanoparticles (HAP@Alg) as pH-Responsive Nanovehicles by a Pre-gel Method. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6720-6727.	4.0	101
58	High performance capacitive deionization using modified ZIF-8-derived, N-doped porous carbon with improved conductivity. <i>Nanoscale</i> , 2018, 10, 14852-14859.	2.8	97
59	Emerging strategies for breaking the 3D amorphous network of lignin. <i>Catalysis Science and Technology</i> , 2014, 4, 3785-3799.	2.1	96
60	Synergistic effect of metal-organic framework-derived boron and nitrogen heteroatom-doped three-dimensional porous carbons for precious-metal-free catalytic reduction of nitroarenes. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117888.	10.8	96
61	A block copolymer micelle template for synthesis of hollow calcium phosphate nanospheres with excellent biocompatibility. <i>Chemical Communications</i> , 2012, 48, 6532.	2.2	95
62	Cellulose Framework Directed Construction of Hierarchically Porous Carbons Offering High-Performance Capacitive Deionization of Brackish Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1885-1893.	3.2	95
63	Enhanced Charge Collection in MOF-PEDOT Nanotube Composites Enable Highly Sensitive Biosensing. <i>Advanced Science</i> , 2017, 4, 1700261.	5.6	95
64	Lignocellulosic biomass-derived, graphene sheet-like porous activated carbon for electrochemical supercapacitor and catechin sensing. <i>RSC Advances</i> , 2017, 7, 45668-45675.	1.7	95
65	Cellulosic conversion in ionic liquids (ILs): Effects of H ₂ O/cellulose molar ratios, temperatures, times, and different ILs on the production of monosaccharides and 5-hydroxymethylfurfural (HMF). <i>Catalysis Today</i> , 2011, 174, 65-69.	2.2	93
66	Mesoporous Carbon Incorporated with In ₂ O ₃ Nanoparticles as High-Performance Supercapacitors. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 1109-1112.	1.0	92
67	Combined treatments for producing 5-hydroxymethylfurfural (HMF) from lignocellulosic biomass. <i>Catalysis Today</i> , 2016, 278, 344-349.	2.2	90
68	Three-Dimensional Nanoarchitecture of Carbon Nanotube-Interwoven Metal-Organic Frameworks for Capacitive Deionization of Saline Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13949-13954.	3.2	88
69	High-Performance Supercapacitor Electrodes Prepared From Dispersions of Tetrabenzonaphthalene-Based Conjugated Microporous Polymers and Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51906-51916.	4.0	88
70	The zerovalent iron nanoparticle causes higher developmental toxicity than its oxidation products in early life stages of medaka fish. <i>Water Research</i> , 2013, 47, 3899-3909.	5.3	83
71	Highly efficient plastic-based quasi-solid-state dye-sensitized solar cells with light-harvesting mesoporous silica nanoparticles gel-electrolyte. <i>Journal of Power Sources</i> , 2014, 245, 411-417.	4.0	82
72	Direct Production of Furfural in One-pot Fashion from Raw Biomass Using Brønsted Acidic Ionic Liquids. <i>Scientific Reports</i> , 2017, 7, 13508.	1.6	82

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73	Multimodal Superparamagnetic Nanoparticles with Unusually Enhanced Specific Absorption Rate for Synergetic Cancer Therapeutics and Magnetic Resonance Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14656-14664.	4.0	78
74	Nanoarchitectonics of Biofunctionalized Metal-Organic Frameworks with Biological Macromolecules and Living Cells. <i>Small Methods</i> , 2019, 3, 1900213.	4.6	76
75	An Effective Cellulose-Glucose-Fructose Conversion Sequence by Using Enzyme Immobilized Fe ₃ O ₄ -Loaded Mesoporous Silica Nanoparticles as Recyclable Biocatalysts. <i>ChemCatChem</i> , 2013, 5, 2153-2157.	1.8	74
76	Heterogeneous Metal Azolate Framework-6 (MAF-6) Catalysts with High Zinc Density for Enhanced Polyethylene Terephthalate (PET) Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6541-6550.	3.2	74
77	Synthesis of Hierarchical Micro/Mesoporous Structures via Solid-Aqueous Interface Growth: Zeolitic Imidazolate Framework-8 on Siliceous Mesocellular Foams for Enhanced Pervaporation of Water/Ethanol Mixtures. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 5192-5198.	4.0	73
78	Green synthesis of metal oxide nanostructures using naturally occurring compounds for energy, environmental, and bio-related applications. <i>New Journal of Chemistry</i> , 2019, 43, 15846-15856.	1.4	72
79	Functionalized magnetic iron oxide/alginate core-shell nanoparticles for targeting hyperthermia. <i>International Journal of Nanomedicine</i> , 2015, 10, 3315.	3.3	71
80	Metal-organic frameworks: preparation and applications in highly efficient heterogeneous photocatalysis. <i>Sustainable Energy and Fuels</i> , 2020, 4, 504-521.	2.5	71
81	Significant Effect of Pore Sizes on Energy Storage in Nanoporous Carbon Supercapacitors. <i>Chemistry - A European Journal</i> , 2018, 24, 6127-6132.	1.7	68
82	Inorganic-Organic Hybrid Nanoparticles with Biocompatible Calcium Phosphate Thin Shells for Fluorescence Enhancement. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1301-1305.	1.7	66
83	Electronically conductive metal-organic framework-based materials. <i>APL Materials</i> , 2019, 7, .	2.2	66
84	Multifunctional Core-Shell-Corona-Type Polymeric Micelles for Anticancer Drug-Delivery and Imaging. <i>Chemistry - A European Journal</i> , 2013, 19, 4812-4817.	1.7	64
85	Characterization and molecular simulation of Pebax-1657-based mixed matrix membranes incorporating MoS ₂ nanosheets for carbon dioxide capture enhancement. <i>Journal of Membrane Science</i> , 2019, 582, 358-366.	4.1	64
86	Fabrication of Nanoporous Carbon Materials with Hard- and Soft-Templating Approaches: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3673-3685.	0.9	64
87	Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6990-7001.	3.2	63
88	Size-adjustable annular ring-functionalized mesoporous silica as effective and selective adsorbents for heavy metal ions. <i>RSC Advances</i> , 2013, 3, 25686.	1.7	62
89	Hydrothermal Synthesis of Binary Ni-Co Hydroxides and Carbonate Hydroxides as Pseudosupercapacitors. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 39-43.	1.0	62
90	De Novo Synthesis of Gold-Nanoparticle-Embedded, Nitrogen-Doped Nanoporous Carbon Nanoparticles (Au@NC) with Enhanced Reduction Ability. <i>ChemCatChem</i> , 2016, 8, 502-509.	1.8	62

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91	Mesoporous TiO ₂ Embedded with a Uniform Distribution of CuO Exhibit Enhanced Charge Separation and Photocatalytic Efficiency. ACS Applied Materials & Interfaces, 2017, 9, 42425-42429.	4.0	62
92	Prussian Blue Derived Nanoporous Iron Oxides as Anticancer Drug Carriers for Magnetic-Guided Chemotherapy. Chemistry - an Asian Journal, 2015, 10, 1457-1462.	1.7	61
93	A gold surface plasmon enhanced mesoporous titanium dioxide photoelectrode for the plastic-based flexible dye-sensitized solar cells. Journal of Power Sources, 2015, 288, 221-228.	4.0	61
94	Effects of structural crystallinity and defects in microporous Al-MOF filled chitosan mixed matrix membranes for pervaporation of water/ethanol mixtures. Journal of the Taiwan Institute of Chemical Engineers, 2018, 83, 143-151.	2.7	60
95	Hydrogen Peroxide Assisted Selective Oxidation of 5-Hydroxymethylfurfural in Water under Mild Conditions. ChemCatChem, 2018, 10, 361-365.	1.8	59
96	Electrophoretic deposition of mesoporous TiO ₂ nanoparticles consisting of primary anatase nanocrystallites on a plastic substrate for flexible dye-sensitized solar cells. Chemical Communications, 2011, 47, 8346.	2.2	58
97	Gelatin-functionalized mesoporous silica nanoparticles with sustained release properties for intracameral pharmacotherapy of glaucoma. Journal of Materials Chemistry B, 2017, 5, 7008-7013.	2.9	58
98	Synthesis of [3- β -ketoenamine-tethered covalent organic frameworks (COFs) for high-performance supercapacitance and CO ₂ storage. Journal of the Taiwan Institute of Chemical Engineers, 2019, 103, 199-208.	2.7	57
99	ZIF-8 Derived, Nitrogen-Doped Porous Electrodes of Carbon Polyhedron Particles for High-Performance Electrosorption of Salt Ions. Scientific Reports, 2016, 6, 28847.	1.6	55
100	Orientational Control of Hexagonally Packed Silica Mesochannels in Lithographically Designed Confined Nanospaces. Angewandte Chemie - International Edition, 2007, 46, 5364-5368.	7.2	52
101	Synthesis of mesoporous titania thin films (MTTFs) with two different structures as photocatalysts for generating hydrogen from water splitting. Applied Energy, 2012, 100, 75-80.	5.1	52
102	Synthesis, Bifunctionalization, and Remarkable Adsorption Performance of Benzene-Bridged Periodic Mesoporous Organosilicas Functionalized with High Loadings of Carboxylic Acids. Chemistry - A European Journal, 2013, 19, 6358-6367.	1.7	52
103	Synthesis of MOF-525 Derived Nanoporous Carbons with Different Particle Sizes for Supercapacitor Application. Chemistry - an Asian Journal, 2017, 12, 2857-2862.	1.7	52
104	Microwave-assisted depolymerization of various types of waste lignins over two-dimensional CuO/BCN catalysts. Green Chemistry, 2020, 22, 725-736.	4.6	52
105	Rapid synthesis of biocompatible gold nanoflowers with tailored surface textures with the assistance of amino acid molecules. RSC Advances, 2012, 2, 4608.	1.7	51
106	Efficient oxygen evolution on mesoporous IrO _x nanosheets. Catalysis Science and Technology, 2019, 9, 3697-3702.	2.1	51
107	Cytotoxicity of Postmodified Zeolitic Imidazolate Framework-90 (ZIF-90) Nanocrystals: Correlation between Functionality and Toxicity. Chemistry - A European Journal, 2016, 22, 2925-2929.	1.7	50
108	Fabrication and characterization of plastic-based flexible dye-sensitized solar cells consisting of crystalline mesoporous titania nanoparticles as photoanodes. Journal of Materials Chemistry, 2011, 21, 17511.	6.7	49

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109	Thermally stable polymer composites with improved transparency by using colloidal mesoporous silica nanoparticles as inorganic fillers. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7427.	1.3	49
110	Ligand Conformation Dictates Membrane and Endosomal Trafficking of Arginine-Glycine-Aspartate (RGD)-Functionalized Mesoporous Silica Nanoparticles. <i>Chemistry - A European Journal</i> , 2012, 18, 7787-7792.	1.7	48
111	Superparamagnetic Gadolinium Ferrite Nanoparticles with Controllable Curie Temperature for Cancer Theranostics for MR Imaging-Guided Magneto-Chemotherapy. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4586-4597.	1.0	47
112	Jute-derived microporous/mesoporous carbon with ultra-high surface area using a chemical activation process. <i>Microporous and Mesoporous Materials</i> , 2019, 274, 251-256.	2.2	47
113	Selective hydrogenation of furfural to tetrahydrofurfuryl alcohol over a Rh-loaded carbon catalyst in aqueous solution under mild conditions. <i>Sustainable Energy and Fuels</i> , 2020, 4, 293-301.	2.5	47
114	Thermochemical Conversion of Plastic Waste into Fuels, Chemicals, and Value-Added Materials: A Critical Review and Outlooks. <i>ChemSusChem</i> , 2022, 15, .	3.6	47
115	A Hierarchical Study on Load/Release Kinetics of Guest Molecules into/from Mesoporous Silica Thin Films. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6581-6590.	1.5	46
116	Facile Synthesis of Hollow Mesoporous Hydroxyapatite Nanoparticles for Intracellular Bio-imaging. <i>Current Nanoscience</i> , 2011, 7, 926-931.	0.7	45
117	Nanomaterials for sustainable remediation of chemical contaminants in water and soil. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2611-2660.	6.6	45
118	A nanofluidic osmotic power generator demonstrated in polymer gel electrolytes with substantially enhanced performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26791-26796.	5.2	44
119	De Novo synthesis of platinum-nanoparticle-encapsulated UiO-66-NH ₂ for photocatalytic thin film fabrication with enhanced performance of phenol degradation. <i>Journal of Hazardous Materials</i> , 2020, 397, 122431.	6.5	44
120	Synthesis of Continuous Mesoporous Alumina Films with Large-Sized Cage-Type Mesopores by Using Diblock Copolymers. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1713-1718.	1.7	43
121	Effect of Solvent, Role of Formic Acid and Rh/C Catalyst for the Efficient Liquefaction of Lignin. <i>ChemCatChem</i> , 2019, 11, 4604-4616.	1.8	43
122	Synergistic effects of Pt-embedded, MIL-53-derived catalysts (Pt@Al ₂ O ₃) and NaBH ₄ for water-mediated hydrogenolysis of biomass-derived furfural to 1,5-pentanediol at near-ambient temperature. <i>Journal of Catalysis</i> , 2020, 390, 46-56.	3.1	43
123	A universal approach for the synthesis of mesoporous gold, palladium and platinum films for applications in electrocatalysis. <i>Nature Protocols</i> , 2020, 15, 2980-3008.	5.5	43
124	Flexible nitrogen-doped carbon heteroarchitecture derived from ZIF-8/ZIF-67 hybrid coating on cotton biomass waste with high supercapacitive properties. <i>Microporous and Mesoporous Materials</i> , 2020, 303, 110257.	2.2	43
125	Predictable Shrinkage during the Precise Design of Porous Materials and Nanomaterials. <i>Chemistry of Materials</i> , 2015, 27, 6918-6928.	3.2	40
126	Boron-Functionalized Graphene Oxide-Organic Frameworks for Highly Efficient CO ₂ Capture. <i>Chemistry - an Asian Journal</i> , 2017, 12, 283-288.	1.7	40

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127	Electron-beam lithography assisted patterning of surfactant-templated mesoporous thin films. <i>Nanotechnology</i> , 2004, 15, 1886-1889.	1.3	39
128	Biodiesel production by pervaporation-assisted esterification and pre-esterification using graphene oxide/chitosan composite membranes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 79, 23-30.	2.7	39
129	Biocompatible and multifunctional gold nanorods for effective photothermal therapy of oral squamous cell carcinoma. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4451-4460.	2.9	39
130	Liver cancer cells: targeting and prolonged-release drug carriers consisting of mesoporous silica nanoparticles and alginate microspheres. <i>International Journal of Nanomedicine</i> , 2014, 9, 2767.	3.3	38
131	Synthesis of highly ordered mesoporous alumina thin films and their framework crystallization to γ -alumina phase. <i>Dalton Transactions</i> , 2011, 40, 10851.	1.6	37
132	Synthesis of Mixed-Ligand Zeolitic Imidazolate Framework (ZIF-8-90) for CO ₂ Adsorption. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 251-258.	1.9	35
133	Glucose isomerization catalyzed by bone char and the selective production of 5-hydroxymethylfurfural in aqueous media. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2148-2153.	2.5	35
134	A stirring packed-bed reactor to enhance the esterification–transesterification in biodiesel production by lowering mass-transfer resistance. <i>Chemical Engineering Journal</i> , 2013, 234, 9-15.	6.6	34
135	Highly Crystallized Nanometer-Sized Zeolite A with Large Cs Adsorption Capability for the Decontamination of Water. <i>Chemistry - an Asian Journal</i> , 2014, 9, 759-763.	1.7	34
136	Trifunctional Fe ₃ O ₄ /CaP/Alginate Core–Shell–Corona Nanoparticles for Magnetically Guided, pH-Responsive, and Chemically Targeted Chemotherapy. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2366-2374.	2.6	34
137	Assessment of agricultural waste-derived activated carbon in multiple applications. <i>Environmental Research</i> , 2020, 191, 110176.	3.7	34
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