Tewodros Asefa

List of Publications by Year
in descending order

205 papers	27,931 citations	14655 66 h-index	5394 164 g-index
222 all docs	222 docs citations	222 times ranked	30841 citing authors

#	Article	IF	Citations
1	Enhanced catalytic activity in strained chemically exfoliated WS2 nanosheets for hydrogen evolution. Nature Materials, 2013, 12, 850-855.	27.5	2,326
2	Cu and Cu-Based Nanoparticles: Synthesis and Applications in Catalysis. Chemical Reviews, 2016, 116, 3722-3811.	47.7	2,051
3	Conducting MoS₂ Nanosheets as Catalysts for Hydrogen Evolution Reaction. Nano Letters, 2013, 13, 6222-6227.	9.1	1,948
4	Periodic mesoporous organosilicas with organic groups inside the channel walls. Nature, 1999, 402, 867-871.	27.8	1,686
5	High-Index Faceted Ni₃S₂ Nanosheet Arrays as Highly Active and Ultrastable Electrocatalysts for Water Splitting. Journal of the American Chemical Society, 2015, 137, 14023-14026.	13.7	1,622
6	Coreâ€“shell nanoparticles: synthesis and applications in catalysis and electrocatalysis. Chemical Society Reviews, 2015, 44, 7540-7590.	38.1	906
7	Cobaltâ€Embedded Nitrogenâ€Rich Carbon Nanotubes Efficiently Catalyze Hydrogen Evolution Reaction at All pH Values. Angewandte Chemie - International Edition, 2014, 53, 4372-4376.	13.8	857
8	The role of electronic coupling between substrate and 2D MoS2 nanosheets in electrocatalytic production of hydrogen. Nature Materials, 2016, 15, 1003-1009.	27.5	687
9	Coupling Mo₂C with Nitrogenâ€Rich Nanocarbon Leads to Efficient Hydrogenâ€Evolution Electrocatalytic Sites. Angewandte Chemie - International Edition, 2015, 54, 10752-10757.	13.8	674
10	Efficient Metal-Free Electrocatalysts for Oxygen Reduction: Polyaniline-Derived N- and O-Doped Mesoporous Carbons. Journal of the American Chemical Society, 2013, 135, 7823-7826.	13.7	661
11	Covalent functionalization of monolayered transition metal dichalcogenides by phase engineering. Nature Chemistry, 2015, 7, 45-49.	13.6	637
12	Removal of tetracycline by NaOH-activated carbon produced from macadamia nut shells: Kinetic and equilibrium studies. Chemical Engineering Journal, 2015, 260, 291-299.	12.7	570
13	Overall Water Splitting Catalyzed Efficiently by an Ultrathin Nanosheetâ€Built, Hollow Ni₃S₂â€Based Electrocatalyst. Advanced Functional Materials, 2016, 26, 4839-4847.	14.9	438
14	Efficient Noble Metal-Free (Electro)Catalysis of Water and Alcohol Oxidations by Zincâ€“Cobalt Layered Double Hydroxide. Journal of the American Chemical Society, 2013, 135, 17242-17245.	13.7	381
15	Periodic mesoporous organosilicas, PMOs: fusion of organic and inorganic chemistry â€˜insideâ€™ the channel walls of hexagonal mesoporous silica. Chemical Communications, 1999, , 2539-2540.	4.1	375
16	Nâ€, Oâ€, and Sâ€Tridoped Carbonâ€Encapsulated Co₉S₈ Nanomaterials: Efficient Bifunctional Electrocatalysts for Overall Water Splitting. Advanced Functional Materials, 2017, 27, 1606585.	14.9	365
17	Biocompatibility of Mesoporous Silica Nanoparticles. Chemical Research in Toxicology, 2012, 25, 2265-2284.	3.3	341
18	Efficient electrocatalysis of overall water splitting by ultrasmall NixCo3â^'xS4 coupled Ni3S2 nanosheet arrays. Nano Energy, 2017, 35, 161-170.	16.0	339

#	Article	IF	Citations
19	Highly Active, Nonprecious Electrocatalyst Comprising Borophene Subunits for the Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2017, 139, 12370-12373.	13.7	335
20	N-, O-, and S-Tridoped Nanoporous Carbons as Selective Catalysts for Oxygen Reduction and Alcohol Oxidation Reactions. Journal of the American Chemical Society, 2014, 136, 13554-13557.	13.7	317
21	Active Site Engineering in Porous Electrocatalysts. Advanced Materials, 2020, 32, e2002435.	21.0	304
22	Metal-free B-doped graphene with efficient electrocatalytic activity for hydrogen evolution reaction. Catalysis Science and Technology, 2014, 4, 2023-2030.	4.1	268
23	Novel Bifunctional Periodic Mesoporous Organosilicas, BPMOs:Â Synthesis, Characterization, Properties and in-Situ Selective Hydroborationâ^'Alcoholysis Reactions of Functional Groups. Journal of the American Chemical Society, 2001, 123, 8520-8530.	13.7	260
24	Magnetic Activated Carbon Derived from Biomass Waste by Concurrent Synthesis: Efficient Adsorbent for Toxic Dyes. ACS Sustainable Chemistry and Engineering, 2016, 4, 1058-1068.	6.7	234
25	Metamorphic Channels in Periodic Mesoporous Methylenesilica. Angewandte Chemie - International Edition, 2000, 39, 1808-1811.	13.8	230
26	Efficient oxygen evolution reaction catalyzed by low-density Ni-doped Co3O4 nanomaterials derived from metal-embedded graphitic C3N4. Chemical Communications, 2013, 49, 7522.	4.1	220
27	Cytotoxicity of mesoporous silica nanomaterials. Journal of Inorganic Biochemistry, 2008, 102, 1416-1423.	3.5	206
28	Metal-Free and Noble Metal-Free Heteroatom-Doped Nanostructured Carbons as Prospective Sustainable Electrocatalysts. Accounts of Chemical Research, 2016, 49, 1873-1883.	15.6	191
29	Efficient Bifunctional Nanocatalysts by Simple Postgrafting of Spatially Isolated Catalytic Groups on Mesoporous Materials. Angewandte Chemie - International Edition, 2007, 46, 2879-2882.	13.8	189
30	New nanocomposites: putting organic function â€œinsideâ€•the channel walls of periodic mesoporous silica. Journal of Materials Chemistry, 2000, 10, 1751-1755.	6.7	166
31	Recent advances in nanostructured chemosensors and biosensors. Analyst, The, 2009, 134, 1980.	3.5	163
32	Periodic Mesoporous Organosilica with Large Cagelike Pores. Chemistry of Materials, 2002, 14, 1903-1905.	6.7	158
33	A new layered metalâ€“organic framework as a promising heterogeneous catalyst for olefin epoxidation reactions. Chemical Communications, 2012, 48, 6541.	4.1	151
34	Synthesis and Properties of 1,3,5-Benzene Periodic Mesoporous Organosilica (PMO):Â Novel Aromatic PMO with Three Point Attachments and Unique Thermal Transformations. Journal of the American Chemical Society, 2002, 124, 13886-13895.	13.7	146
35	Functionalized mesoporous materials for adsorption and release of different drug molecules: A comparative study. Journal of Solid State Chemistry, 2009, 182, 1649-1660.	2.9	140
36	Mesoporous activated carbon fibers synthesized from denim fabric waste: Efficient adsorbents for removal of textile dye from aqueous solutions. Journal of Cleaner Production, 2018, 171, 482-490.	9.3	139

#	Article	IF	Citations
37	Sol-gel synthesis of new TiO 2 /activated carbon photocatalyst and its application for degradation of tetracycline. Ceramics International, 2017, 43, 4411-4418.	4.8	135
38	Toward Efficient Nanoporous Catalysts:Â Controlling Site-Isolation and Concentration of Grafted Catalytic Sites on Nanoporous Materials with Solvents and Colorimetric Elucidation of Their Site-Isolation. Journal of the American Chemical Society, 2008, 130, 218-228.	13.7	134
39	Mesoporous Silica Microparticles Enhance the Cytotoxicity of Anticancer Platinum Drugs. ACS Nano, 2010, 4, 789-794.	14.6	133
40	Writing on the Wall with a New Synthetic Quill. Chemistry - A European Journal, 2000, 6, 2507-2511.	3.3	128
41	Synthesis of ZnCl2-activated carbon from macadamia nut endocarp (Macadamia integrifolia) by microwave-assisted pyrolysis: Optimization using RSM and methylene blue adsorption. Journal of Analytical and Applied Pyrolysis, 2014, 105, 166-176.	5.5	123
42	Metamorphosis of Ordered Mesopores to Micropores:â€‰ Periodic Silica with Unprecedented Loading of Pendant Reactive Organic Groups Transforms to Periodic Microporous Silica with Tailorable Pore Size. Journal of the American Chemical Society, 2002, 124, 6383-6392.	13.7	118
43	Mesoporosity and Functional Group Dependent Endocytosis and Cytotoxicity of Silica Nanomaterials. Chemical Research in Toxicology, 2009, 22, 1869-1880.	3.3	117
44	Bone char-derived metal-free N- and S-co-doped nanoporous carbon and its efficient electrocatalytic activity for hydrazine oxidation. Applied Catalysis B: Environmental, 2018, 225, 30-39.	20.2	115
45	Polypyrroleâ€Derived Nitrogen and Oxygen Coâ€Doped Mesoporous Carbons as Efficient Metalâ€Free Electrocatalyst for Hydrazine Oxidation. Advanced Materials, 2014, 26, 6510-6516.	21.0	114
46	Mesoporous Silica Nanoparticles Inhibit Cellular Respiration. Nano Letters, 2008, 8, 1517-1526.	9.1	104
47	Poly(allylamine)-Stabilized Colloidal Copper Nanoparticles: Synthesis, Morphology, and Their Surface-Enhanced Raman Scattering Properties. Langmuir, 2010, 26, 7469-7474.	3.5	104
48	Ultrasmall palladium nanoparticles supported on amine-functionalized SBA-15 efficiently catalyze hydrogen evolution from formic acid. Journal of Materials Chemistry A, 2014, 2, 20444-20449.	10.3	101
49	Cu-doped carbon nitride: Bio-inspired synthesis of H2-evolving electrocatalysts using graphitic carbon nitride (g-C3N4) as a host material. Applied Surface Science, 2015, 357, 221-228.	6.1	97
50	Title is missing!. Journal of Materials Chemistry, 2001, 11, 3202-3206.	6.7	95
51	Controlled Synthesis of Waterâ€Dispersible Faceted Crystalline Copper Nanoparticles and Their Catalytic Properties. Chemistry - A European Journal, 2010, 16, 10735-10743.	3.3	92
52	Dendritic Silica Nanomaterials (KCC-1) with Fibrous Pore Structure Possess High DNA Adsorption Capacity and Effectively Deliver Genes In Vitro. Langmuir, 2014, 30, 10886-10898.	3.5	88
53	A self-cleaning porous TiO₂â€“Ag coreâ€“shell nanocomposite material for surface-enhanced Raman scattering. Chemical Communications, 2013, 49, 382-384.	4.1	84
54	Edgeâ€Planeâ€Rich Nitrogenâ€Doped Carbon Nanoneedles and Efficient Metalâ€Free Electrocatalysts. Angewandte Chemie - International Edition, 2012, 51, 7171-7175.	13.8	83

#	Article	IF	Citations
55	Optimizing Acidâ^'Base Bifunctional Mesoporous Catalysts for the Henry Reaction: Effects of the Surface Density and Site Isolation of Functional Groups. Langmuir, 2008, 24, 14306-14320.	3.5	82
56	Tailored Coreâ^'Shellâ^'Shell Nanostructures:â€‰ Sandwiching Gold Nanoparticles between Silica Cores and Tunable Silica Shells. Langmuir, 2007, 23, 9455-9462.	3.5	81
57	Thermal regeneration study of high surface area activated carbon obtained from coconut shell: Characterization and application of response surface methodology. Journal of Analytical and Applied Pyrolysis, 2013, 101, 53-60.	5.5	81
58	Novel nanoporous N-doped carbon-supported ultrasmall Pd nanoparticles: Efficient catalysts for hydrogen storage and release. Applied Catalysis B: Environmental, 2017, 203, 820-828.	20.2	80
59	Heteroatomâ€Doped Carbon Materials for Hydrazine Oxidation. Advanced Materials, 2019, 31, e1804394.	21.0	80
60	Optimization of Active Sites via Crystal Phase, Composition, and Morphology for Efficient Lowâ€Iridium Oxygen Evolution Catalysts. Angewandte Chemie - International Edition, 2020, 59, 19654-19658.	13.8	79
61	Silica nanosphere-supported shaped Pd nanoparticles encapsulated with nanoporous silica shell: Efficient and recyclable nanocatalysts. Journal of Materials Chemistry, 2010, 20, 7834.	6.7	75
62	Mesoporous silica and organosilica materialsÂâ€" Review of their synthesis and organic functionalization. Canadian Journal of Chemistry, 2012, 90, 1015-1031.	1.1	74
63	Epoxide Ring-Opening Reactions with Mesoporous Silica-Supported Fe(III) Catalysts. ACS Catalysis, 2011, 1, 502-510.	11.2	72
64	One-pot cation exchange synthesis of 1D porous CdS/ZnO heterostructures for visible-light-driven H2 evolution. Journal of Materials Chemistry A, 2014, 2, 4682.	10.3	71
65	Copper nanoparticles stabilized by reduced graphene oxide for CO2 reduction reaction. Materials for Renewable and Sustainable Energy, 2015, 4, 1.	3.6	68
66	Formic acid dehydrogenation over Pd NPs supported on amine-functionalized SBA-15 catalysts: structureâ€"activity relationships. Journal of Materials Chemistry A, 2017, 5, 16150-16161.	10.3	68
67	Novel Route to Periodic Mesoporous Aminosilicas, PMAs:Â Ammonolysis of Periodic Mesoporous Organosilicas. Journal of the American Chemical Society, 2003, 125, 11662-11673.	13.7	65
68	Heteroatomâ€Doped Carbon Materials for Electrocatalysis. Chemistry - A European Journal, 2017, 23, 10703-10713.	3.3	64
69	Unconventional molybdenum carbide phases with high electrocatalytic activity for hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 18030-18038.	10.3	64
70	Efficient solid-base catalysts for aldol reaction by optimizing the density and type of organoamine groups on nanoporous silica. Journal of Catalysis, 2009, 265, 131-140.	6.2	62
71	Reductive Deprotection of Monolayer Protected Nanoclusters: An Efficient Route to Supported Ultrasmall Au Nanocatalysts for Selective Oxidation. Small, 2014, 10, 1473-1478.	10.0	61
72	Silicaâ€"Dendrimer Coreâ€"Shell Microspheres with Encapsulated Ultrasmall Palladium Nanoparticles: Efficient and Easily Recyclable Heterogeneous Nanocatalysts. Langmuir, 2011, 27, 14408-14418.	3.5	58

#	Article	IF	Citations
73	Synthesis and application of Nâ€“S-doped mesoporous carbon obtained from nanocasting method using bone char as heteroatom precursor and template. Chemical Engineering Journal, 2016, 300, 54-63.	12.7	58
74	Hierarchically Porous Co3C/Co-N-C/G Modified Graphitic Carbon: A Trifunctional Corrosion-Resistant Electrode for Oxygen Reduction, Hydrogen Evolution and Oxygen Evolution Reactions. Electrochimica Acta, 2017, 257, 40-48.	5.2	58
75	Preparation of antibody-conjugated gold nanoparticles. Materials Letters, 2009, 63, 1876-1879.	2.6	56
76	Synthesis of Gold Nanoparticles via Electroless Deposition in SBA-15. Chemistry of Materials, 2005, 17, 2481-2483.	6.7	55
77	A trifunctional mesoporous silica-based, highly active catalyst for one-pot, three-step cascade reactions. Chemical Communications, 2015, 51, 8496-8499.	4.1	54
78	Mesoporous TiO₂ Comprising Small, Highly Crystalline Nanoparticles for Efficient CO₂ Reduction by H₂O. ACS Sustainable Chemistry and Engineering, 2018, 6, 531-540.	6.7	52
79	Hybrid Periodic Mesoporous Organosilicas. Advanced Functional Materials, 2005, 15, 1696-1702.	14.9	51
80	Tuning Metal Nanostructures in Mesoporous Silica by a Simple Change of Metal Complexes and by Reduction with Grafted Imines and Hemiaminals. Journal of Physical Chemistry C, 2008, 112, 9996-10003.	3.1	51
81	Improving the Adsorption and Release Capacity of Organic-Functionalized Mesoporous Materials to Drug Molecules with Temperature and Synthetic Methods. Journal of Physical Chemistry C, 2011, 115, 13135-13150.	3.1	51
82	N-doped ordered mesoporous carbons with improved charge storage capacity by tailoring N-dopant density with solvent-assisted synthesis. Journal of Materials Chemistry A, 2014, 2, 15181-15190.	10.3	50
83	Nonprecious Bimetallic Sites Coordinated on Nâ€Doped Carbons with Efficient and Durable Catalytic Activity for Oxygen Reduction. Small, 2020, 16, e2000742.	10.0	50
84	Yeast Cells-Derived Hollow Core/Shell Heteroatom-Doped Carbon Microparticles for Sustainable Electrocatalysis. ACS Applied Materials & Interfaces, 2015, 7, 1978-1986.	8.0	49
85	Multifunctional hybrid aerogels: hyperbranched polymer-trapped mesoporous silica nanoparticles for sustained and prolonged drug release. Nanoscale, 2018, 10, 1704-1715.	5.6	48
86	Nanosized gold-catalyzed selective oxidation of alkyl-substituted benzenes and n-alkanes. Applied Catalysis A: General, 2012, 435-436, 19-26.	4.3	47
87	Noble Metalâ€Free Oxidative Electrocatalysts: Polyaniline and Co(II)â€Polyaniline Nanostructures Hosted in Nanoporous Silica. Advanced Materials, 2012, 24, 1878-1883.	21.0	47
88	CO₂â€Mediated H₂ Storageâ€Release with Nanostructured Catalysts: Recent Progresses, Challenges, and Perspectives. Advanced Energy Materials, 2019, 9, 1901158.	19.5	47
89	N- and O-doped mesoporous carbons derived from rice grains: efficient metal-free electrocatalysts for hydrazine oxidation. Chemical Communications, 2016, 52, 13588-13591.	4.1	45
90	Copperâ€Decorated Microsized Nanoporous Titanium Dioxide Photocatalysts for Carbon Dioxide Reduction by Water. ChemCatChem, 2017, 9, 3054-3062.	3.7	44

#	Article	IF	Citations
91	Ultra-absorbent hybrid hydrogel based on alginate and SiO2 microspheres: A high-water-content system for removal of methylene blue. Journal of Molecular Liquids, 2019, 276, 204-213.	4.9	44
92	Sequential Hydroborationâ€“Alcoholysis and Epoxidationâ€“Ring Opening Reactions of Vinyl Groups in Mesoporous Vinylsilica. Advanced Functional Materials, 2001, 11, 447.	14.9	43
93	Microâ€“mesoporous iron oxides with record efficiency for the decomposition of hydrogen peroxide: morphology driven catalysis for the degradation of organic contaminants. Journal of Materials Chemistry A, 2016, 4, 596-604.	10.3	42
94	One-Pot Hydrothermal Synthesis of Benzalkonium-Templated Mesostructured Silica Antibacterial Agents. Journal of the American Chemical Society, 2018, 140, 13534-13537.	13.7	41
95	Synthesis and characterization of ordered mesoporous silicas with high loadings of methyl groups. Journal of Materials Chemistry, 2002, 12, 3452-3457.	6.7	40
96	Unique Electronic Structure in a Porous Gaâ€In Bimetallic Oxide Nanoâ€Photocatalyst with Atomically Thin Pore Walls. Angewandte Chemie - International Edition, 2016, 55, 11442-11446.	13.8	40
97	From ionic liquid-modified cellulose nanowhiskers to highly active metal-free nanostructured carbon catalysts for the hydrazine oxidation reaction. Journal of Materials Chemistry A, 2017, 5, 1066-1077.	10.3	40
98	Single Coâ€Atoms as Electrocatalysts for Efficient Hydrazine Oxidation Reaction. Small, 2021, 17, e2006477.	10.0	40
99	Bifunctional Mesoporous Silica Catalyst for Câ€“C Bond Forming Tandem Reactions. European Journal of Inorganic Chemistry, 2011, 2011, 3174-3182.	2.0	39
100	Accelerated Oxidation of Epinephrine by Silica Nanoparticles. Langmuir, 2009, 25, 10183-10188.	3.5	37
101	Monodisperse Mesoporous Carbon Nanoparticles from Polymer/Silica Self-Aggregates and Their Electrocatalytic Activities. ACS Applied Materials & Interfaces, 2016, 8, 18891-18903.	8.0	36
102	Improving Microstructured TiO₂ Photoanodes for Dye Sensitized Solar Cells by Simple Surface Treatment. Advanced Energy Materials, 2011, 1, 879-887.	19.5	35
103	Co₈FeS₈/N,S-Doped Carbons Derived from Fe-Co/S-Bridged Polyphthalocyanine: Efficient Dual-Function Air-Electrode Catalysts for Rechargeable Zn-Air Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 13147-13158.	6.7	35
104	Assembling Nanostructures for Effective Catalysis: Supported Palladium Nanoparticle Multicores Coated by a Hollow and Nanoporous Zirconia Shell. ChemSusChem, 2012, 5, 132-139.	6.8	34
105	Photocatalytic performance of Sn-doped TiO2/reduced graphene oxide composite materials. Applied Catalysis A: General, 2014, 473, 21-30.	4.3	34
106	Biocompatibility of Calcined Mesoporous Silica Particles with Cellular Bioenergetics in Murine Tissues. Chemical Research in Toxicology, 2010, 23, 1796-1805.	3.3	33
107	Isomer-Dependent Adsorption and Release of Cis- and Trans-platin Anticancer Drugs by Mesoporous Silica Nanoparticles. Langmuir, 2010, 26, 8914-8924.	3.5	32
108	Hollow Spherical (Co, Zn)/N, S-Doped Carbons: Efficient Catalysts for Oxygen Reduction in Both Alkaline and Acidic Media. ACS Sustainable Chemistry and Engineering, 2019, 7, 18912-18925.	6.7	32

#	Article	IF	Citations
109	Hybrid Materials and Nanocomposites as Multifunctional Biomaterials. Current Pharmaceutical Design, 2017, 23, 3794-3813.	1.9	32
110	Selective, efficient nanoporous catalysts for nitroaldol condensation: Co-placement of multiple site-isolated functional groups on mesoporous materials. Journal of Molecular Catalysis A, 2008, 288, 1-13.	4.8	31
111	A Facile Synthesis of Nitrogen-Doped Highly Porous Carbon Nanoplatelets: Efficient Catalysts for Oxygen Electroreduction. Scientific Reports, 2017, 7, 43366.	3.3	31
112	Deriving Efficient Porous Heteroatomâ€Doped Carbon Electrocatalysts for Hydrazine Oxidation from Transition Metal Ionsâ€Coordinated Casein. Advanced Functional Materials, 2019, 29, 1808486.	14.9	31
113	A Blinking Mesoporous TiO_{2â”x} Composed of Nanosized Anatase with Unusually Longâ€Lived Trapped Charge Carriers. Angewandte Chemie - International Edition, 2020, 59, 15000-15007.	13.8	31
114	Controlled Synthesis of the Henry Reaction Products: Nitroalcohol Versus Nitrostyrene by a Simple Change of Amino-Groups of Aminofunctionalized Nanoporous Catalysts. Catalysis Letters, 2008, 126, 142-148.	2.6	30
115	Nanoporous Heteroatom-Doped Carbons Derived from Cotton Waste: Efficient Hydrazine Oxidation Electrocatalysts. ACS Applied Energy Materials, 2019, 2, 2313-2323.	5.1	29
116	Au/SBA-15-Based Robust and Convenient-to-Use Nanopowder Material for Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 22810-22817.	3.1	28
117	Fibrous porous carbon electrocatalysts for hydrazine oxidation by using cellulose filter paper as precursor and self-template. Carbon, 2016, 102, 97-105.	10.3	28
118	Highly sensitive and selective gas-phase ethanolamine sensor by doping sulfur into nanostructured ZnO. Sensors and Actuators B: Chemical, 2019, 296, 126633.	7.8	28
119	Aminotroponate/Aminotroponiminate Zinc Complexes Functionalized Mesoporous Silica Catalysts for Intramolecular Hydroamination of Non-Activated Alkenes with Varied Steric and Electronic Properties. ACS Catalysis, 2011, 1, 736-750.	11.2	27
120	Coreâ€“Shellâ€“Shell Microsphere Catalysts Containing Au Nanoparticles for Styrene Epoxidation. Topics in Catalysis, 2012, 55, 587-594.	2.8	26
121	Nearâ€IR Absorbing Solar Cell Sensitized With Bacterial Photosynthetic Membranes. Photochemistry and Photobiology, 2012, 88, 1467-1472.	2.5	26
122	Facile synthesis of an effective g-C₃N₄-based catalyst for advanced oxidation processes and degradation of organic compounds. Journal of Materials Chemistry A, 2021, 9, 14841-14850.	10.3	26
123	Highly Dispersed Mo₂C Nanodots in Carbon Nanocages Derived from Moâ€Based Xerogel: Efficient Electrocatalysts for Hydrogen Evolution. Small Methods, 2021, 5, e2100334.	8.6	26
124	Recyclable Dirhodium Catalysts Embedded in Nanoporous Surfaceâ€Functionalized Organosilica Hosts for Carbenoidâ€Mediated Cyclopropanation Reactions. ChemCatChem, 2010, 2, 1461-1466.	3.7	25
125	Self-Assembled TiO₂ with Increased Photoelectron Production, and Improved Conduction and Transfer: Enhancing Photovoltaic Performance of Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2011, 3, 3002-3010.	8.0	25
126	Substituentâ€•and Catalystâ€Dependent Selectivity to Aldol or Nitrostyrene Products in a Heterogeneous Baseâ€Catalyzed Henry Reaction. ChemCatChem, 2010, 2, 61-66.	3.7	24

#	Article	IF	Citations
127	In Vitro Study and Biocompatibility of Calcined Mesoporous Silica Microparticles in Mouse Lung. Toxicological Sciences, 2011, 122, 86-99.	3.1	24
128	The role of ceramic and glass science research in meeting societal challenges: Report from an <scp>NSF</scp>â€sponsored workshop. Journal of the American Ceramic Society, 2017, 100, 1777-1803.	3.8	23
129	Corrugated and nanoporous silica microspheres: synthesis by controlled etching, and improving their chemical adsorption and application in biosensing. Journal of Materials Chemistry, 2008, 18, 5604.	6.7	22
130	Nanofibrous silica microparticles/polymer hybrid aerogels for sustained delivery of poorly water-soluble camptothecin. Journal of Colloid and Interface Science, 2020, 567, 92-102.	9.4	22
131	(Fe,Co)/Nâ€Doped Multiâ€Walled Carbon Nanotubes as Efficient Bifunctional Electrocatalysts for Rechargeable Zincâ€Air Batteries. ChemCatChem, 2021, 13, 1023-1033.	3.7	22
132	Aminotroponiminateâ€“Zinc Complexâ€Functionalized Mesoporous Materials: Efficient and Recyclable Intramolecular Hydroamination Catalysts. ChemCatChem, 2009, 1, 365-368.	3.7	21
133	Recent developments in the synthesis and chemistry of periodic mesoporous organosilicas. Studies in Surface Science and Catalysis, 2002, , 1-26.	1.5	20
134	Sugarcane vinasse-derived nanoporous N-S-doped carbon material decorated with Co: A new and efficient multifunctional electrocatalyst. International Journal of Hydrogen Energy, 2020, 45, 9669-9682.	7.1	20
135	Chiral Nematic Mesoporous Carbons from Selfâ€Assembled Nanocrystalline Cellulose. Angewandte Chemie - International Edition, 2012, 51, 2008-2010.	13.8	19
136	Facile synthesis of efficient and selective Ti-containing mesoporous silica catalysts for toluene oxidation. Molecular Catalysis, 2018, 444, 34-41.	2.0	19
137	Continuous Henry reaction to a specific product over nanoporous silica-supported amine catalysts on fixed bed reactor. Applied Catalysis A: General, 2010, 389, 19-26.	4.3	18
138	Functionalized Mesoporous Silica Nanoparticles for Glucoseâ€•and pHâ€Stimulated Release of Insulin. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2014, 640, 616-623.	1.2	18
139	Covalently-layers of PVA and PAA and in situ formed Ag nanoparticles as versatile antimicrobial surfaces. International Journal of Biological Macromolecules, 2016, 91, 329-337.	7.5	18
140	Metal-organic framework-derived Fe3C@NC nanohybrids as highly-efficient oxygen reduction electrocatalysts in both acidic and basic media. Journal of Electroanalytical Chemistry, 2018, 823, 755-764.	3.8	18
141	Harvesting waste heat energy by promoting H+-ion concentration difference with a fuel cell structure. Nano Energy, 2019, 57, 101-107.	16.0	18
142	Hollow Hemispherical Carbon Microspheres with Mo₂C Nanoparticles Synthesized by Precursor Design: Effective Noble Metalâ€Free Catalysts for Dehydrogenation. Small Methods, 2020, 4, 1900597.	8.6	18
143	Synthesis and characterization of methyl- and vinyl-functionalized ordered mesoporous silicas with high organic content. Studies in Surface Science and Catalysis, 2002, 141, 197-204.	1.5	17
144	New polyoxomolybdate compounds synthesized in situ using ionic liquid 1-butyl-3-methyl-imidazolium tetrafluoroborate as green solvent. New Journal of Chemistry, 2013, 37, 2894.	2.8	17

#	Article	IF	Citations
145	Metal doped carbon nanoneedles and effect of carbon organization with activity for hydrogen evolution reaction (HER). Carbohydrate Polymers, 2016, 137, 719-725.	10.2	17
146	Copper nanoparticles/polyaniline-derived mesoporous carbon electrocatalysts for hydrazine oxidation. Frontiers of Chemical Science and Engineering, 2018, 12, 329-338.	4.4	17
147	Hierarchical macrochanneled layered titanates with â€œhouse-of-cardsâ€•type titanate nanosheets and their superior photocatalytic activity. Journal of Materials Chemistry A, 2013, 1, 7690.	10.3	16
148	Mesoporous Graphitic Carbon Nitrides Decorated with Cu Nanoparticles: Efficient Photocatalysts for Degradation of Tartrazine Yellow Dye. Nanomaterials, 2018, 8, 636.	4.1	16
149	Fe3C nanoparticles-loaded 3D nanoporous N-doped carbon: A highly efficient electrocatalyst for oxygen reduction in alkaline media. International Journal of Hydrogen Energy, 2019, 44, 21506-21517.	7.1	16
150	Nickel foam-supported Fe,Ni-Polyporphyrin microparticles: Efficient bifunctional catalysts for overall water splitting in alkaline media. International Journal of Hydrogen Energy, 2020, 45, 28860-28869.	7.1	16
151	Ternary ZIF-8-derived dual-metal CoCu nanoparticles in porous carbon polyhedra as efficient catalysts for methanol oxidation. Journal of Materials Chemistry A, 2020, 8, 12285-12290.	10.3	16
152	A CO₂/H₂ fuel cell: reducing CO₂ while generating electricity. Journal of Materials Chemistry A, 2020, 8, 8329-8336.	10.3	16
153	Ta-Doped porous TiO₂ nanorod arrays by substrate-assisted synthesis: efficient photoelectrocatalysts for water oxidation. Nanoscale, 2018, 10, 19367-19374.	5.6	15
154	Controlling adsorption and release of drug and small molecules byÂorganic functionalization of mesoporous materials. Adsorption, 2009, 15, 287-299.	3.0	14
155	In Situ Growth and Characterization of Metal Oxide Nanoparticles within Polyelectrolyte Membranes. Angewandte Chemie - International Edition, 2016, 55, 11522-11527.	13.8	14
156	Efficient Catalysts for Cyclohexane Dehydrogenation Synthesized by Mo-Promoted Growth of 3D Block Carbon Coupled with Mo₂C. ACS Omega, 2018, 3, 10773-10780.	3.5	14
157	In vitro biocompatibility of calcined mesoporous silica particles and fetal blood cells. International Journal of Nanomedicine, 2012, 7, 3111.	6.7	13
158	Nanostructured polymers with high surface area using inorganic templates for the efficient extraction of anionic dyes from solutions. Chemical Communications, 2015, 51, 16135-16138.	4.1	13
159	Hollow Mesoporous Carbon Microparticles and Micromotors with Single Holes Templated by Colloidal Silicaâ€Assisted Gas Bubbles. Small, 2017, 13, 1700256.	10.0	13
160	Amine/Hydrido Bifunctional Nanoporous Silica with Small Metal Nanoparticles Made Onsite: Efficient Dehydrogenation Catalyst. ACS Applied Materials & Interfaces, 2017, 9, 36-41.	8.0	13
161	Nanostructured Carbon Electrocatalysts for Energy Conversions. Small, 2021, 17, e2007136.	10.0	13
162	Bicinchoninic acid-based colorimetric chemosensor for detection of low concentrations of cyanide. Sensors and Actuators B: Chemical, 2016, 222, 112-119.	7.8	12

#	Article	IF	Citations
163	Mn/Cu nanoclusters-grafted N-doped carbon nanotubes: Robust oxygen electrode catalysts for Zn-air batteries. International Journal of Hydrogen Energy, 2020, 45, 27230-27243.	7.1	12
164	Efficient Tertiary Amine/Weak Acid Bifunctional Mesoporous Silica Catalysts for Michael Addition Reactions. ChemCatChem, 2013, 5, 910-919.	3.7	11
165	Semiconductor and Plasmonic Photocatalysis for Selective Organic Transformations. Current Organic Chemistry, 2013, 17, 1274-1287.	1.6	11
166	Glutathione-triggered release of model drug molecules from mesoporous silica nanoparticles via a non-redox process. RSC Advances, 2015, 5, 28836-28839.	3.6	11
167	Optimization of Active Sites via Crystal Phase, Composition, and Morphology for Efficient Lowâ€Iridium Oxygen Evolution Catalysts. Angewandte Chemie, 2020, 132, 19822-19826.	2.0	11
168	Synthesis, Characterization, and Investigation of the Antimicrobial Activity of Cetylpyridinium Tetrachlorozincate. ACS Omega, 2020, 5, 10359-10365.	3.5	11
169	Electrocatalysis: Overall Water Splitting Catalyzed Efficiently by an Ultrathin Nanosheetâ€Built, Hollow Ni₃S₂â€Based Electrocatalyst (Adv. Funct. Mater. 27/2016). Advanced Functional Materials, 2016, 26, 4999-4999.	14.9	10
170	Controlling cell growth with tailorable 2D nanoholes arrays. Journal of Colloid and Interface Science, 2016, 466, 150-161.	9.4	10
171	Ordered Nanoporous Nitrogen- and Oxygen-Codoped Carbon Nanospheres as Electrocatalysts for Oxygen-Reduction Reaction in Direct Methanol Fuel Cells. ACS Applied Nano Materials, 2020, 3, 5139-5148.	5.0	10
172	Antimicrobial properties of novel ionic liquids derived from imidazolium cation with phenolic functional groups. Bioorganic Chemistry, 2021, 115, 105289.	4.1	10
173	Trimming Nanostructured Walls While Fluorinating their Surfaces: A Route to Making and Widening Pores of Nanoporous Materials and Efficient Catalysts. Chemistry of Materials, 2010, 22, 4950-4963.	6.7	9
174	Nanostructured TiO2 Catalyzed Oxidations of Caffeine and Isocaffeine and Their Cytotoxicity and Genotoxicity Towards Ovarian Cancer Cells. BioNanoScience, 2014, 4, 27-36.	3.5	9
175	Hierarchically Selfâ€Assembled Starâ€Shaped ZnO Microparticles for Electrochemical Sensing of Amines. Chemistry - A European Journal, 2016, 22, 8068-8073.	3.3	9
176	Biocompatibility of Calcined Mesoporous Silica Particles with Ventricular Myocyte Structure and Function. Chemical Research in Toxicology, 2013, 26, 26-36.	3.3	8
177	Synthesis and Gas-sensing Performance of Column-shaped Zinc Oxide Doped with-graphene. Materials Today: Proceedings, 2016, 3, 345-349.	1.8	8
178	Solvent-washable polymer templated synthesis of mesoporous materials and solid-acid nanocatalysts in one-pot. Chemical Communications, 2009, , 6201.	4.1	7
179	Entrapping Flavinâ€Containing Monooxygenase on Corrugated Silica Nanospheres and their Recyclable Biocatalytic Activities. ChemCatChem, 2010, 2, 1004-1010.	3.7	7
180	Metal-Functionalized Hydrogels as Efficient Oxygen Evolution Electrocatalysts. ACS Applied Materials & Interfaces, 2022, 14, 20919-20929.	8.0	7

#	Article	IF	Citations
181	Nitrogen and Phosphorus Coâ€doped Nanoporous Carbons from Phosphoprotein/Silica Selfâ€Assemblies for Energy Storage in Supercapacitors. ChemElectroChem, 2020, 7, 4773-4781.	3.4	6
182	Synthesis, Characterization, and Antimicrobial Investigation of a Novel Chlorhexidine Cyclamate Complex. Crystal Growth and Design, 2020, 20, 4991-4999.	3.0	6
183	Nanoporous carbons derived from metal-conjugated phosphoprotein/silica: Efficient electrocatalysts for oxygen reduction and hydrazine oxidation reactions. Journal of Electroanalytical Chemistry, 2021, 882, 114997.	3.8	6
184	Electrocatalytic Degradation of Tetracycline by Cuâ€PANIâ€SBAâ€15â€‰on Nickel Foam via Peroxymonosulfateâ€Based Advanced Oxidation Process. ChemElectroChem, 2021, 8, 4296-4304.	3.4	6
185	Robust Adsorption and Persulfate-Based Degradation of Doxycycline by Oxygen Vacancy-Rich Copper-Iron Oxides Prepared through a Mechanochemical Route. ACS ES&T Water, 2022, 2, 1031-1045.	4.6	6
186	Unique Electronic Structure in a Porous Gaâ€In Bimetallic Oxide Nanoâ€Photocatalyst with Atomically Thin Pore Walls. Angewandte Chemie, 2016, 128, 11614-11618.	2.0	5
187	A Facile Route to Efficient Water Oxidation Electrodes via Electrochemical Activation of Iron in Nickel Sulfate Solution. ACS Sustainable Chemistry and Engineering, 2020, 8, 15550-15559.	6.7	5
188	Cetylpyridinium Trichlorostannate: Synthesis, Antimicrobial Properties, and Controlled-Release Properties via Electrical Resistance Tomography. ACS Omega, 2021, 6, 35433-35441.	3.5	5
189	Hierarchically Ordered Nanoporous Carbon with Exclusively Surfaceâ€Anchored Cobalt as Efficient Electrocatalyst. Small Methods, 2022, 6, .	8.6	5
190	Nanocrafting Ironâ€“Cobalt for Fischerâ€“Tropsch Catalysis. ChemCatChem, 2013, 5, 1698-1700.	3.7	4
191	Lung toxicities of core–shell nanoparticles composed of carbon, cobalt, and silica. International Journal of Nanomedicine, 2013, 8, 1223.	6.7	4
192	Frontispiece: Coupling Mo₂C with Nitrogenâ€Rich Nanocarbon Leads to Efficient Hydrogenâ€Evolution Electrocatalytic Sites. Angewandte Chemie - International Edition, 2015, 54, .	13.8	4
193	A Blinking Mesoporous TiO_{2â^'x} Composed of Nanosized Anatase with Unusually Longâ€Lived Trapped Charge Carriers. Angewandte Chemie, 2020, 132, 15110-15117.	2.0	4
194	N-doped spherical activated carbon from dye adsorption: Bifunctional electrocatalyst for hydrazine oxidation and oxygen reduction. Journal of Environmental Chemical Engineering, 2022, 10, 107458.	6.7	4
195	Template-free synthesis of highly selective amorphous aluminosilicate catalyst for toluene alkylation. Applied Catalysis A: General, 2018, 556, 155-159.	4.3	3
196	Periodic Mesoporous Organosilicas (PMOs): Nanostructured Organic-Inorganic Hybrid Materials. Materials Research Society Symposia Proceedings, 2000, 628, 1.	0.1	3
197	Sulfur-bridged iron-polyphthalocyanine on Cu_xO/copper foam: efficient and durable electrocatalyst for overall water splitting. Sustainable Energy and Fuels, 2021, 5, 5985-5993.	4.9	3
198	In Situ Growth and Characterization of Metal Oxide Nanoparticles within Polyelectrolyte Membranes. Angewandte Chemie, 2016, 128, 11694-11699.	2.0	2

#	Article	IF	Citations
199	Improving the dissolution of fenofibrate with yeast cell-derived hollow core/shell carbon microparticles. RSC Advances, 2016, 6, 30226-30233.	3.6	2
200	Bio-Inspired Nanocomposites: From Synthesis Toward Potential Applications. Materials Research Society Symposia Proceedings, 2001, 707, 551.	0.1	1
201	Low Energy TEM Characterizations of Ordered Mesoporous Silica-Based Nanocomposite Materials for Catalytic Applications. Microscopy and Microanalysis, 2014, 20, 1900-1901.	0.4	1
202	Contamination Mitigation Strategy for Ultra-Low Energy Electron Microscopy and Spectroscopy. Microscopy and Microanalysis, 2019, 25, 500-501.	0.4	1
203	Bio-Inspired Nanocomposites: From Synthesis Toward Potential Applications. Materials Research Society Symposia Proceedings, 2001, 711, 1.	0.1	0
204	Frontispiece: Heteroatomâ€Doped Carbon Materials for Electrocatalysis. Chemistry - A European Journal, 2017, 23, .	3.3	0
205	EFFICIENT AND SELECTIVE NANOPOROUS CATALYSTS BY PLACING MULTIPLE SITE-ISOLATED FUNCTIONAL GROUPS ON MESOPOROUS MATERIALS. , 2008, , .		0