Mietek Jaroniec

List of Publications by Year
in descending order

887 papers	114,465 citations	219 146 h-index	171 321 g-index
916 all docs	916 docs citations	916 times ranked	59931 citing authors

#	Article	IF	Citations
1	Design of electrocatalysts for oxygen- and hydrogen-involving energy conversion reactions. Chemical Society Reviews, 2015, 44, 2060-2086.	18.7	4,323
2	Heterojunction Photocatalysts. Advanced Materials, 2017, 29, 1601694.	11.1	3,143
3	Polymeric Photocatalysts Based on Graphitic Carbon Nitride. Advanced Materials, 2015, 27, 2150-2176.	11.1	3,046
4	Gas Adsorption Characterization of Ordered Organicâ"Inorganic Nanocomposite Materials. Chemistry of Materials, 2001, 13, 3169-3183.	3.2	3,036
5	Graphene-based semiconductor photocatalysts. Chemical Society Reviews, 2012, 41, 782-796.	18.7	2,497
6	Synthesis of New, Nanoporous Carbon with Hexagonally Ordered Mesostructure. Journal of the American Chemical Society, 2000, 122, 10712-10713.	6.6	2,331
7	Synergetic Effect of MoS₂ and Graphene as Cocatalysts for Enhanced Photocatalytic H₂ Production Activity of TiO₂ Nanoparticles. Journal of the American Chemical Society, 2012, 134, 6575-6578.	6.6	2,245
8	Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. Chemical Society Reviews, 2014, 43, 7787-7812.	18.7	2,125
9	Allâ€Solidâ€State Zâ€Scheme Photocatalytic Systems. Advanced Materials, 2014, 26, 4920-4935.	11.1	1,989
10	Sulfur and Nitrogen Dualâ€Doped Mesoporous Graphene Electrocatalyst for Oxygen Reduction with Synergistically Enhanced Performance. Angewandte Chemie - International Edition, 2012, 51, 11496-11500.	7.2	1,898
11	Hydrogen evolution by a metal-free electrocatalyst. Nature Communications, 2014, 5, 3783.	5.8	1,851
12	Metalâ€"Organic Framework Derived Hybrid Co₃O₄-Carbon Porous Nanowire Arrays as Reversible Oxygen Evolution Electrodes. Journal of the American Chemical Society, 2014, 136, 13925-13931.	6.6	1,744
13	Enhanced Photocatalytic CO₂-Reduction Activity of Anatase TiO₂ by Coexposed {001} and {101} Facets. Journal of the American Chemical Society, 2014, 136, 8839-8842.	6.6	1,701
14	Preparation and Enhanced Visible-Light Photocatalytic H₂-Production Activity of Graphene/C₃N₄ Composites. Journal of Physical Chemistry C, 2011, 115, 7355-7363.	1.5	1,694
15	Advancing the Electrochemistry of the Hydrogenâ€Evolution Reaction through Combining Experiment and Theory. Angewandte Chemie - International Edition, 2015, 54, 52-65.	7.2	1,616
16	Cocatalysts for Selective Photoreduction of CO₂into Solar Fuels. Chemical Reviews, 2019, 119, 3962-4179.	23.0	1,591
17	Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. Energy and Environmental Science, 2012, 5, 6717.	15.6	1,552
18	Hierarchical photocatalysts. Chemical Society Reviews, 2016, 45, 2603-2636.	18.7	1,517

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19	Ordered Mesoporous Carbons. Advanced Materials, 2001, 13, 677-681.	11.1	1,454
20	Characterization of the Porous Structure of SBA-15. Chemistry of Materials, 2000, 12, 1961-1968.	3.2	1,280
21	Direct Z-scheme photocatalysts: Principles, synthesis, and applications. Materials Today, 2018, 21, 1042-1063.	8.3	1,134
22	Hydrogen Production by Photocatalytic Water Splitting over Pt/TiO₂ Nanosheets with Exposed (001) Facets. Journal of Physical Chemistry C, 2010, 114, 13118-13125.	1.5	1,071
23	Roadmap for advanced aqueous batteries: From design of materials to applications. Science Advances, 2020, 6, eaba4098.	4.7	1,069
24	Cocatalysts in Semiconductorâ€based Photocatalytic CO₂ Reduction: Achievements, Challenges, and Opportunities. Advanced Materials, 2018, 30, 1704649.	11.1	1,034
25	Tunable Photocatalytic Selectivity of Hollow TiO₂ Microspheres Composed of Anatase Polyhedra with Exposed {001} Facets. Journal of the American Chemical Society, 2010, 132, 11914-11916.	6.6	979
26	Nanoporous Graphitic-C₃N₄@Carbon Metal-Free Electrocatalysts for Highly Efficient Oxygen Reduction. Journal of the American Chemical Society, 2011, 133, 20116-20119.	6.6	958
27	Toward Design of Synergistically Active Carbon-Based Catalysts for Electrocatalytic Hydrogen Evolution. ACS Nano, 2014, 8, 5290-5296.	7.3	947
28	Origin of the Electrocatalytic Oxygen Reduction Activity of Graphene-Based Catalysts: A Roadmap to Achieve the Best Performance. Journal of the American Chemical Society, 2014, 136, 4394-4403.	6.6	946
29	Twoâ€Step Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. Angewandte Chemie - International Edition, 2013, 52, 3110-3116.	7.2	863
30	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. Journal of the American Chemical Society, 2016, 138, 16174-16181.	6.6	852
31	Noble Metal-Free Reduced Graphene Oxide-Zn_xCd_{1â€“x}S Nanocomposite with Enhanced Solar Photocatalytic H₂-Production Performance. Nano Letters, 2012, 12, 4584-4589.	4.5	845
32	Molecular-based design and emerging applications of nanoporous carbon spheres. Nature Materials, 2015, 14, 763-774.	13.3	838
33	Highâ€Performance Sodium Ion Batteries Based on a 3D Anode from Nitrogenâ€Doped Graphene Foams. Advanced Materials, 2015, 27, 2042-2048.	11.1	812
34	Heteroatom-Doped Graphene-Based Materials for Energy-Relevant Electrocatalytic Processes. ACS Catalysis, 2015, 5, 5207-5234.	5.5	800
35	Enhanced photocatalytic H2-production activity of graphene-modified titania nanosheets. Nanoscale, 2011, 3, 3670.	2.8	742
36	Graphitic Carbon Nitride Nanosheetâ€“Carbon Nanotube Threeâ€Dimensional Porous Composites as Highâ€Performance Oxygen Evolution Electrocatalysts. Angewandte Chemie - International Edition, 2014, 53, 7281-7285.	7.2	737

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37	Phosphorusâ€Doped Graphitic Carbon Nitrides Grown Inâ€…Situ on Carbonâ€Fiber Paper: Flexible and Reversible Oxygen Electrodes. Angewandte Chemie - International Edition, 2015, 54, 4646-4650.	7.2	722
38	Understanding the Roadmap for Electrochemical Reduction of CO₂ to Multi-Carbon Oxygenates and Hydrocarbons on Copper-Based Catalysts. Journal of the American Chemical Society, 2019, 141, 7646-7659.	6.6	711
39	Anatase TiO₂ with Dominant High-Energy {001} Facets: Synthesis, Properties, and Applications. Chemistry of Materials, 2011, 23, 4085-4093.	3.2	669
40	Porous C₃N₄ Nanolayers@N-Graphene Films as Catalyst Electrodes for Highly Efficient Hydrogen Evolution. ACS Nano, 2015, 9, 931-940.	7.3	655
41	Selfâ€Templating Synthesis of Hollow Co₃O₄ Microtube Arrays for Highly Efficient Water Electrolysis. Angewandte Chemie - International Edition, 2017, 56, 1324-1328.	7.2	648
42	Building Up a Picture of the Electrocatalytic Nitrogen Reduction Activity of Transition Metal Single-Atom Catalysts. Journal of the American Chemical Society, 2019, 141, 9664-9672.	6.6	642
43	Block-Copolymer-Templated Ordered Mesoporous Silica:Â Array of Uniform Mesopores or Mesoporeâ˜Micropore Network?. Journal of Physical Chemistry B, 2000, 104, 11465-11471.	1.2	631
44	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic CO₂ reduction. Journal of Materials Chemistry A, 2017, 5, 3230-3238.	5.2	621
45	Interacting Carbon Nitride and Titanium Carbide Nanosheets for Highâ€Performance Oxygen Evolution. Angewandte Chemie - International Edition, 2016, 55, 1138-1142.	7.2	597
46	Nitrogen and Oxygen Dualâ€Doped Carbon Hydrogel Film as a Substrateâ€Free Electrode for Highly Efficient Oxygen Evolution Reaction. Advanced Materials, 2014, 26, 2925-2930.	11.1	594
47	Facile Oxygen Reduction on a Threeâ€Dimensionally Ordered Macroporous Graphitic C₃N₄/Carbon Composite Electrocatalyst. Angewandte Chemie - International Edition, 2012, 51, 3892-3896.	7.2	588
48	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. Nature Communications, 2016, 7, 12876.	5.8	568
49	Nanostructured Metalâ€Free Electrochemical Catalysts for Highly Efficient Oxygen Reduction. Small, 2012, 8, 3550-3566.	5.2	559
50	Threeâ€Dimensional Nâ€Doped Graphene Hydrogel/NiCo Double Hydroxide Electrocatalysts for Highly Efficient Oxygen Evolution. Angewandte Chemie - International Edition, 2013, 52, 13567-13570.	7.2	547
51	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO₂ Adsorption. Chemistry of Materials, 2014, 26, 2820-2828.	3.2	539
52	Determination of the Electron Transfer Number for the Oxygen Reduction Reaction: From Theory to Experiment. ACS Catalysis, 2016, 6, 4720-4728.	5.5	513
53	Standard Nitrogen Adsorption Data for Characterization of Nanoporous Silicas. Langmuir, 1999, 15, 5410-5413.	1.6	512
54	A noble metal-free reduced graphene oxideâ€“CdS nanorod composite for the enhanced visible-light photocatalytic reduction of CO2 to solar fuel. Journal of Materials Chemistry A, 2014, 2, 3407.	5.2	499

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55	An isotherm equation for adsorption on fractal surfaces of heterogeneous porous materials. Langmuir, 1989, 5, 1431-1433.	1.6	492
56	Molecular Scaffolding Strategy with Synergistic Active Centers To Facilitate Electrocatalytic CO₂ Reduction to Hydrocarbon/Alcohol. Journal of the American Chemical Society, 2017, 139, 18093-18100.	6.6	439
57	Optimization of mesoporous carbon structures for lithiumâ€“sulfur battery applications. Journal of Materials Chemistry, 2011, 21, 16603.	6.7	417
58	Activated Carbon Spheres for CO₂ Adsorption. ACS Applied Materials & Interfaces, 2013, 5, 1849-1855.	4.0	402
59	Fabrication and enhanced visible-light photocatalytic activity of carbon self-doped TiO₂sheets with exposed {001} facets. Journal of Materials Chemistry, 2011, 21, 1049-1057.	6.7	390
60	Importance of small micropores in CO₂capture by phenolic resin-based activated carbon spheres. Journal of Materials Chemistry A, 2013, 1, 112-116.	5.2	383
61	Semiconductor-based photocatalytic CO₂ conversion. Materials Horizons, 2015, 2, 261-278.	6.4	380
62	Ordered Mesoporous Silica with Large Cage-Like Pores:â€‰ Structural Identification and Pore Connectivity Design by Controlling the Synthesis Temperature and Time. Journal of the American Chemical Society, 2003, 125, 821-829.	6.6	367
63	Ni(OH)2 modified CdS nanorods for highly efficient visible-light-driven photocatalytic H2 generation. Green Chemistry, 2011, 13, 2708.	4.6	363
64	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. Nature Communications, 2017, 8, 1509.	5.8	361
65	Enhanced Performance of NaOH-Modified Pt/TiO₂ toward Room Temperature Selective Oxidation of Formaldehyde. Environmental Science & Technology, 2013, 47, 2777-2783.	4.6	355
66	Electrochemically Active Nitrogen-Enriched Nanocarbons with Well-Defined Morphology Synthesized by Pyrolysis of Self-Assembled Block Copolymer. Journal of the American Chemical Society, 2012, 134, 14846-14857.	6.6	354
67	Charge-Redistribution-Enhanced Nanocrystalline Ru@IrOx Electrocatalysts for Oxygen Evolution in Acidic Media. CheM, 2019, 5, 445-459.	5.8	354
68	Ordered Mesoporous Alumina-Supported Metal Oxides. Journal of the American Chemical Society, 2008, 130, 15210-15216.	6.6	346
69	Determination of Pore Size and Pore Wall Structure of MCM-41 by Using Nitrogen Adsorption, Transmission Electron Microscopy, and X-ray Diffraction. Journal of Physical Chemistry B, 2000, 104, 292-301.	1.2	342
70	Nitrogen self-doped nanosized TiO2 sheets with exposed {001} facets for enhanced visible-light photocatalytic activity. Chemical Communications, 2011, 47, 6906.	2.2	342
71	Electrocatalytic Refinery for Sustainable Production of Fuels and Chemicals. Angewandte Chemie - International Edition, 2021, 60, 19572-19590.	7.2	341
72	Characterization of Large-Pore MCM-41 Molecular Sieves Obtained via Hydrothermal Restructuring. Chemistry of Materials, 1997, 9, 2499-2506.	3.2	337

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73	Characterization of Ordered Mesoporous Carbons Synthesized Using MCM-48 Silicas as Templates. Journal of Physical Chemistry B, 2000, 104, 7960-7968.	1.2	333
74	Tailoring the Pore Structure of SBA-16 Silica Molecular Sieve through the Use of Copolymer Blends and Control of Synthesis Temperature and Time. Journal of Physical Chemistry B, 2004, 108, 11480-11489.	1.2	333
75	Facet effect of Pd cocatalyst on photocatalytic CO 2 reduction over g-C 3 N 4. Journal of Catalysis, 2017, 349, 208-217.	3.1	332
76	Preparation and enhanced visible-light photocatalytic H2-production activity of CdS quantum dots-sensitized Zn1â^'xCdxS solid solution. Green Chemistry, 2010, 12, 1611.	4.6	321
77	Engineering Highâ€Energy Interfacial Structures for Highâ€Performance Oxygenâ€Involving Electrocatalysis. Angewandte Chemie - International Edition, 2017, 56, 8539-8543.	7.2	314
78	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. Nanoscale, 2015, 7, 17590-17610.	2.8	312
79	N-doped graphene film-confined nickel nanoparticles as a highly efficient three-dimensional oxygen evolution electrocatalyst. Energy and Environmental Science, 2013, 6, 3693.	15.6	309
80	Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. Materials Today, 2020, 36, 125-138.	8.3	308
81	Nickel ferrocyanide as a high-performance urea oxidation electrocatalyst. Nature Energy, 2021, 6, 904-912.	19.8	305
82	Photocatalytic hydrogen production over CuO-modified titania. Journal of Colloid and Interface Science, 2011, 357, 223-228.	5.0	292
83	Short-Range Ordered Iridium Single Atoms Integrated into Cobalt Oxide Spinel Structure for Highly Efficient Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2021, 143, 5201-5211.	6.6	287
84	Nitrogen and sulfur co-doped TiO₂nanosheets with exposed {001} facets: synthesis, characterization and visible-light photocatalytic activity. Physical Chemistry Chemical Physics, 2011, 13, 4853-4861.	1.3	282
85	Improvement of the Krukâ^'Jaroniecâ^'Sayari Method for Pore Size Analysis of Ordered Silicas with Cylindrical Mesopores. Langmuir, 2006, 22, 6757-6760.	1.6	275
86	Na₂Ti₃O₇@Nâ€Doped Carbon Hollow Spheres for Sodiumâ€Ion Batteries with Excellent Rate Performance. Advanced Materials, 2017, 29, 1700989.	11.1	275
87	Facile Synthesis of Ordered Mesoporous Alumina and Alumina-Supported Metal Oxides with Tailored Adsorption and Framework Properties. Chemistry of Materials, 2011, 23, 1147-1157.	3.2	268
88	Non-Noble Plasmonic Metal-Based Photocatalysts. Chemical Reviews, 2022, 122, 10484-10537.	23.0	268
89	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. Energy and Environmental Science, 2020, 13, 1096-1131.	15.6	266
90	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.	6.6	260

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91	Characterization of semiconductor photocatalysts. Chemical Society Reviews, 2019, 48, 5184-5206.	18.7	260
92	Graphitized Pitch-Based Carbons with Ordered Nanopores Synthesized by Using Colloidal Crystals as Templates. Journal of the American Chemical Society, 2005, 127, 4188-4189.	6.6	252
93	Synthesis and Characterization of Hexagonally Ordered Carbon Nanopipes. Chemistry of Materials, 2003, 15, 2815-2823.	3.2	250
94	Tunable photocatalytic selectivity of TiO2 films consisted of flower-like microspheres with exposed {001} facets. Chemical Communications, 2011, 47, 4532.	2.2	250
95	Nickel-based materials for supercapacitors. Materials Today, 2019, 25, 35-65.	8.3	247
96	Nitrogen Adsorption Studies of Novel Synthetic Active Carbons. Journal of Colloid and Interface Science, 1997, 192, 250-256.	5.0	243
97	Mesoporous hybrid material composed of Mn₃O₄nanoparticles on nitrogen-doped graphene for highly efficient oxygen reduction reaction. Chemical Communications, 2013, 49, 7705-7707.	2.2	241
98	Preparation and enhanced visible-light photocatalytic H2-production activity of CdS-sensitized Pt/TiO2 nanosheets with exposed (001) facets. Physical Chemistry Chemical Physics, 2011, 13, 8915.	1.3	235
99	Expanding the Pore Size of MCM-41 Silicas:â€‰ Use of Amines as Expanders in Direct Synthesis and Postsynthesis Procedures. Journal of Physical Chemistry B, 1999, 103, 3651-3658.	1.2	234
100	Template-free synthesis of hierarchical spindle-like Î³-Al2O3 materials and their adsorption affinity towards organic and inorganic pollutants in water. Journal of Materials Chemistry, 2010, 20, 4587.	6.7	232
101	Colloidal Imprinting:Â A Novel Approach to the Synthesis of Mesoporous Carbons. Journal of the American Chemical Society, 2001, 123, 9208-9209.	6.6	231
102	Mesoporous MnCo₂O₄with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. Journal of Materials Chemistry A, 2014, 2, 8676-8682.	5.2	227
103	The solution of adsorption integral equations by means of the regularization method. Journal of Computational Chemistry, 1992, 13, 17-32.	1.5	225
104	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. Advanced Materials, 2017, 29, 1604607.	11.1	224
105	Anomalous hydrogen evolution behavior in high-pH environment induced by locally generated hydronium ions. Nature Communications, 2019, 10, 4876.	5.8	220
106	Periodic Mesoporous Organosilica with Large Heterocyclic Bridging Groups. Journal of the American Chemical Society, 2005, 127, 60-61.	6.6	217
107	Toward designing semiconductor-semiconductor heterojunctions for photocatalytic applications. Applied Surface Science, 2018, 430, 2-17.	3.1	211
108	Evidence for General Nature of Pore Interconnectivity in 2-Dimensional Hexagonal Mesoporous Silicas Prepared Using Block Copolymer Templates. Journal of Physical Chemistry B, 2002, 106, 4640-4646.	1.2	208

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109	Silicaâ€“metal coreâ€“shell nanostructures. Advances in Colloid and Interface Science, 2012, 170, 28-47.	7.0	204
110	A simple cation exchange approach to Bi-doped ZnS hollow spheres with enhanced UV and visible-light photocatalytic H2-production activity. Journal of Materials Chemistry, 2011, 21, 14655.	6.7	203
111	Synthesis of Mesoporous Carbons Using Ordered and Disordered Mesoporous Silica Templates and Polyacrylonitrile as Carbon Precursor. Journal of Physical Chemistry B, 2005, 109, 9216-9225.	1.2	200
112	Efficient catalytic removal of formaldehyde at room temperature using AlOOH nanoflakes with deposited Pt. Applied Catalysis B: Environmental, 2015, 163, 306-312.	10.8	199
113	Integrating 2D/2D CdS/Î±-Fe2O3 ultrathin bilayer Z-scheme heterojunction with metallic Î²-NiS nanosheet-based ohmic-junction for efficient photocatalytic H2 evolution. Applied Catalysis B: Environmental, 2020, 266, 118619.	10.8	199
114	Synthesis of Hierarchical Flower-like AlOOH and TiO₂/AlOOH Superstructures and their Enhanced Photocatalytic Properties. Journal of Physical Chemistry C, 2009, 113, 17527-17535.	1.5	198
115	Room-temperature catalytic oxidation of formaldehyde on catalysts. Catalysis Science and Technology, 2016, 6, 3649-3669.	2.1	197
116	Relations between Pore Structure Parameters and Their Implications for Characterization of MCM-41 Using Gas Adsorption and X-ray Diffraction. Chemistry of Materials, 1999, 11, 492-500.	3.2	194
117	Synthesis of Boehmite Hollow Core/Shell and Hollow Microspheres via Sodium Tartrate-Mediated Phase Transformation and Their Enhanced Adsorption Performance in Water Treatment. Journal of Physical Chemistry C, 2009, 113, 14739-14746.	1.5	194
118	From waste Coca ColaÂ® to activated carbons with impressive capabilities for CO2 adsorption and supercapacitors. Carbon, 2017, 116, 490-499.	5.4	188
119	New Approaches to Pore Size Engineering of Mesoporous Silicates. Advanced Materials, 1998, 10, 1376-1379.	11.1	185
120	Evaluation of the Fractal Dimension from a Single Adsorption Isotherm. Langmuir, 1995, 11, 2316-2317.	1.6	184
121	Characterization of Regular and Plugged SBA-15 Silicas by Using Adsorption and Inverse Carbon Replication and Explanation of the Plug Formation Mechanism. Journal of Physical Chemistry B, 2003, 107, 2205-2213.	1.2	184
122	A Regularly Channeled Lamellar Membrane for Unparalleled Water and Organics Permeation. Angewandte Chemie - International Edition, 2018, 57, 6814-6818.	7.2	183
123	Phosphorus Vacancies that Boost Electrocatalytic Hydrogen Evolution by Two Orders of Magnitude. Angewandte Chemie - International Edition, 2020, 59, 8181-8186.	7.2	183
124	Physical adsorption on heterogeneous solids. Advances in Colloid and Interface Science, 1983, 18, 149-225.	7.0	179
125	Carbon-based two-dimensional layered materials for photocatalytic CO 2 reduction to solar fuels. Energy Storage Materials, 2016, 3, 24-35.	9.5	178
126	Amidoxime-modified mesoporous silica for uranium adsorption under seawater conditions. Journal of Materials Chemistry A, 2015, 3, 11650-11659.	5.2	177

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127	Highly Active Mesoporous Ferrihydrite Supported Pt Catalyst for Formaldehyde Removal at Room Temperature. Environmental Science & Technology, 2015, 49, 6637-6644.	4.6	171
128	Modification of SBA-15 pore connectivity by high-temperature calcination investigated by carbon inverse replication. Chemical Communications, 2001, , 349-350.	2.2	170
129	Ultrathin Titanate Nanosheets/Graphene Films Derived from Confined Transformation for Excellent Na/K Ion Storage. Angewandte Chemie - International Edition, 2018, 57, 8540-8544.	7.2	170
130	KOH activation of mesoporous carbons obtained by soft-templating. Carbon, 2008, 46, 1159-1161.	5.4	168
131	Adsorption on heterogeneous surfaces: The exponential equation for the overall adsorption isotherm. Surface Science, 1975, 50, 553-564.	0.8	167
132	Benzoylthiourea-Modified Mesoporous Silica for Mercury(II) Removal. Langmuir, 2003, 19, 3031-3034.	1.6	165
133	Mechanochemical synthesis of highly porous materials. Materials Horizons, 2020, 7, 1457-1473.	6.4	165
134	Atomic-level structure engineering of metal oxides for high-rate oxygen intercalation pseudocapacitance. Science Advances, 2018, 4, eaau6261.	4.7	164
135	Accurate Method for Calculating Mesopore Size Distributions from Argon Adsorption Data at 87 K Developed Using Model MCM-41 Materials. Chemistry of Materials, 2000, 12, 222-230.	3.2	162
136	Characterization of mesoporous carbons synthesized with SBA-16 silica template. Journal of Materials Chemistry, 2005, 15, 1560.	6.7	162
137	Coconut shell-based microporous carbons for CO2 capture. Microporous and Mesoporous Materials, 2013, 180, 280-283.	2.2	161
138	Fluorinated semiconductor photocatalysts: Tunable synthesis and unique properties. Advances in Colloid and Interface Science, 2012, 173, 35-53.	7.0	159
139	Periodic Mesoporous Organosilica with Large Cagelike Pores. Chemistry of Materials, 2002, 14, 1903-1905.	3.2	158
140	Characterization of Highly Ordered MCM-41 Silicas Using X-ray Diffraction and Nitrogen Adsorption. Langmuir, 1999, 15, 5279-5284.	1.6	150
141	0D/2D NiS2/V-MXene composite for electrocatalytic H2 evolution. Journal of Catalysis, 2019, 375, 8-20.	3.1	150
142	Argon Adsorption at 77 K as a Useful Tool for the Elucidation of Pore Connectivity in Ordered Materials with Large Cagelike Mesopores. Chemistry of Materials, 2003, 15, 2942-2949.	3.2	148
143	Synthesis and Characterization of Ordered, Very Large Pore MSU-H Silicas Assembled from Water-Soluble Silicates. Journal of Physical Chemistry B, 2001, 105, 7663-7670.	1.2	147
144	Ionicâ€Liquidâ€Assisted Synthesis of Uniform Fluorinated B/Câ€Codoped TiO₂ Nanocrystals and Their Enhanced Visibleâ€Light Photocatalytic Activity. Chemistry - A European Journal, 2013, 19, 2433-2441.	1.7	147

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145	Synthesis and applications of porous non-silica metal oxide submicrospheres. Chemical Society Reviews, 2016, 45, 6013-6047.	18.7	147
146	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.	6.6	146
147	A flexible bio-inspired H2-production photocatalyst. Applied Catalysis B: Environmental, 2018, 220, 148-160.	10.8	146
148	Gas adsorption properties of hybrid graphene-MOF materials. Journal of Colloid and Interface Science, 2018, 514, 801-813.	5.0	143
149	The Application of Hollow Structured Anodes for Sodiumâ€Ion Batteries: From Simple to Complex Systems. Advanced Materials, 2019, 31, e1800492.	11.1	143
150	Mechanochemistry: Toward green synthesis of metalâ€“organic frameworks. Materials Today, 2021, 46, 109-124.	8.3	143
151	Carbons with Extremely Large Volume of Uniform Mesopores Synthesized by Carbonization of Phenolic Resin Film Formed on Colloidal Silica Template. Journal of the American Chemical Society, 2006, 128, 10026-10027.	6.6	142
152	Enhanced formaldehyde oxidation on CeO 2 /AlOOH-supported Pt catalyst at room temperature. Applied Catalysis B: Environmental, 2016, 199, 458-465.	10.8	142
153	Revealing Principles for Design of Lean-Electrolyte Lithium Metal Anode via In Situ Spectroscopy. Journal of the American Chemical Society, 2020, 142, 2012-2022.	6.6	142
154	Metal-metal interactions in correlated single-atom catalysts. Science Advances, 2022, 8, eabo0762.	4.7	142
155	Nitrogen Adsorption Study of Surface Properties of Graphitized Carbon Blacks. Langmuir, 1999, 15, 1435-1441.	1.6	140
156	Facile Hydrothermal Synthesis of Hierarchical Boehmite: Sulfate-Mediated Transformation from Nanoflakes to Hollow Microspheres. Crystal Growth and Design, 2010, 10, 3977-3982.	1.4	136
157	Multi-shell hollow structured Sb2S3 for sodium-ion batteries with enhanced energy density. Nano Energy, 2019, 60, 591-599.	8.2	136
158	New Approach to Evaluate Pore Size Distributions and Surface Areas for Hydrophobic Mesoporous Solids. Journal of Physical Chemistry B, 1999, 103, 10670-10678.	1.2	135
159	Temperature-Programmed Microwave-Assisted Synthesis of SBA-15 Ordered Mesoporous Silica. Journal of the American Chemical Society, 2006, 128, 14408-14414.	6.6	135
160	Tailoring properties of SBA-15 materials by controlling conditions of hydrothermal synthesis. Journal of Materials Chemistry, 2005, 15, 5049.	6.7	133
161	Recent progress in determination of energetic heterogeneity of solids from adsorption data. Surface Science Reports, 1986, 6, 65-117.	3.8	131
162	Enhancement of CO2 adsorption on phenolic resin-based mesoporous carbons by KOH activation. Carbon, 2013, 65, 334-340.	5.4	130

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