

# Mietek Jaroniec

## List of Publications by Year in descending order

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887  
papers

114,465  
citations

217

146  
h-index

169

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

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19	Ordered Mesoporous Carbons. <i>Advanced Materials</i> , 2001, 13, 677-681.	11.1	1,454
20	Characterization of the Porous Structure of SBA-15. <i>Chemistry of Materials</i> , 2000, 12, 1961-1968.	3.2	1,280
21	Direct Z-scheme photocatalysts: Principles, synthesis, and applications. <i>Materials Today</i> , 2018, 21, 1042-1063.	8.3	1,134
22	Hydrogen Production by Photocatalytic Water Splitting over Pt/TiO <sub>2</sub> Nanosheets with Exposed (001) Facets. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13118-13125.	1.5	1,071
23	Roadmap for advanced aqueous batteries: From design of materials to applications. <i>Science Advances</i> , 2020, 6, eaba4098.	4.7	1,069
24	Cocatalysts in Semiconductor-Based Photocatalytic CO <sub>2</sub> Reduction: Achievements, Challenges, and Opportunities. <i>Advanced Materials</i> , 2018, 30, 1704649.	11.1	1,034
25	Tunable Photocatalytic Selectivity of Hollow TiO <sub>2</sub> Microspheres Composed of Anatase Polyhedra with Exposed {001} Facets. <i>Journal of the American Chemical Society</i> , 2010, 132, 11914-11916.	6.6	979
26	Nanoporous Graphitic-C <sub>3</sub> N <sub>4</sub> @Carbon Metal-Free Electrocatalysts for Highly Efficient Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2011, 133, 20116-20119.	6.6	958
27	Toward Design of Synergistically Active Carbon-Based Catalysts for Electrocatalytic Hydrogen Evolution. <i>ACS Nano</i> , 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. <i>Journal of the American Chemical Society</i> , 2014, 136, 4394-4403.	6.6	946
29	Two-Step Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3110-3116.	7.2	863
30	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. <i>Journal of the American Chemical Society</i> , 2016, 138, 16174-16181.	6.6	852
31	Noble Metal-Free Reduced Graphene Oxide-Zn <sub>x</sub> Cd <sub>1-x</sub> S Nanocomposite with Enhanced Solar Photocatalytic H <sub>2</sub> -Production Performance. <i>Nano Letters</i> , 2012, 12, 4584-4589.	4.5	845
32	Molecular-based design and emerging applications of nanoporous carbon spheres. <i>Nature Materials</i> , 2015, 14, 763-774.	13.3	838
33	High-Performance Sodium Ion Batteries Based on a 3D Anode from Nitrogen-Doped Graphene Foams. <i>Advanced Materials</i> , 2015, 27, 2042-2048.	11.1	812
34	Heteroatom-Doped Graphene-Based Materials for Energy-Relevant Electrocatalytic Processes. <i>ACS Catalysis</i> , 2015, 5, 5207-5234.	5.5	800
35	Enhanced photocatalytic H <sub>2</sub> -production activity of graphene-modified titania nanosheets. <i>Nanoscale</i> , 2011, 3, 3670.	2.8	742
36	Graphitic Carbon Nitride Nanosheet-Carbon Nanotube Three-Dimensional Porous Composites as High-Performance Oxygen Evolution Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7281-7285.	7.2	737

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37	Phosphorus-Doped Graphitic Carbon Nitrides Grown In Situ on Carbon Fiber Paper: Flexible and Reversible Oxygen Electrodes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4646-4650.	7.2	722
38	Understanding the Roadmap for Electrochemical Reduction of CO <sub>2</sub> to Multi-Carbon Oxygenates and Hydrocarbons on Copper-Based Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 7646-7659.	6.6	711
39	Anatase TiO <sub>2</sub> with Dominant High-Energy {001} Facets: Synthesis, Properties, and Applications. <i>Chemistry of Materials</i> , 2011, 23, 4085-4093.	3.2	669
40	Porous C <sub>3</sub> N <sub>4</sub> Nanolayers@N-Graphene Films as Catalyst Electrodes for Highly Efficient Hydrogen Evolution. <i>ACS Nano</i> , 2015, 9, 931-940.	7.3	655
41	Self-Templating Synthesis of Hollow Co <sub>3</sub> O <sub>4</sub> Microtube Arrays for Highly Efficient Water Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1324-1328.	7.2	648
42	Building Up a Picture of the Electrocatalytic Nitrogen Reduction Activity of Transition Metal Single-Atom Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 9664-9672.	6.6	642
43	Block-Copolymer-Templated Ordered Mesoporous Silica: An Array of Uniform Mesopores or Mesopore-Micropore Network?. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11465-11471.	1.2	631
44	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3230-3238.	5.2	621
45	Interacting Carbon Nitride and Titanium Carbide Nanosheets for High-Performance Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1138-1142.	7.2	597
46	Nitrogen and Oxygen Dual-Doped Carbon Hydrogel Film as a Substrate-Free Electrode for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2014, 26, 2925-2930.	11.1	594
47	Facile Oxygen Reduction on a Three-Dimensionally Ordered Macroporous Graphitic C <sub>3</sub> N <sub>4</sub> /Carbon Composite Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3892-3896.	7.2	588
48	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. <i>Nature Communications</i> , 2016, 7, 12876.	5.8	568
49	Nanostructured Metal-Free Electrochemical Catalysts for Highly Efficient Oxygen Reduction. <i>Small</i> , 2012, 8, 3550-3566.	5.2	559
50	Three-Dimensional N-Doped Graphene Hydrogel/NiCo Double Hydroxide Electrocatalysts for Highly Efficient Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13567-13570.	7.2	547
51	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO <sub>2</sub> Adsorption. <i>Chemistry of Materials</i> , 2014, 26, 2820-2828.	3.2	539
52	Determination of the Electron Transfer Number for the Oxygen Reduction Reaction: From Theory to Experiment. <i>ACS Catalysis</i> , 2016, 6, 4720-4728.	5.5	513
53	Standard Nitrogen Adsorption Data for Characterization of Nanoporous Silicas. <i>Langmuir</i> , 1999, 15, 5410-5413.	1.6	512
54	A noble metal-free reduced graphene oxide-CdS nanorod composite for the enhanced visible-light photocatalytic reduction of CO <sub>2</sub> to solar fuel. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3407.	5.2	499

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

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73	Characterization of Ordered Mesoporous Carbons Synthesized Using MCM-48 Silicas as Templates. <i>Journal of Physical Chemistry B</i> , 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. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11480-11489.	1.2	333
75	Facet effect of Pd cocatalyst on photocatalytic CO <sub>2</sub> reduction over g-C <sub>3</sub> N <sub>4</sub> . <i>Journal of Catalysis</i> , 2017, 349, 208-217.	3.1	332
76	Preparation and enhanced visible-light photocatalytic H <sub>2</sub> -production activity of CdS quantum dots-sensitized Zn <sub>1-x</sub> Cd <sub>x</sub> S solid solution. <i>Green Chemistry</i> , 2010, 12, 1611.	4.6	321
77	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8539-8543.	7.2	314
78	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. <i>Nanoscale</i> , 2015, 7, 17590-17610.	2.8	312
79	N-doped graphene film-confined nickel nanoparticles as a highly efficient three-dimensional oxygen evolution electrocatalyst. <i>Energy and Environmental Science</i> , 2013, 6, 3693.	15.6	309
80	Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. <i>Materials Today</i> , 2020, 36, 125-138.	8.3	308
81	Nickel ferrocyanide as a high-performance urea oxidation electrocatalyst. <i>Nature Energy</i> , 2021, 6, 904-912.	19.8	305
82	Photocatalytic hydrogen production over CuO-modified titania. <i>Journal of Colloid and Interface Science</i> , 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. <i>Journal of the American Chemical Society</i> , 2021, 143, 5201-5211.	6.6	287
84	Nitrogen and sulfur co-doped TiO <sub>2</sub> nanosheets with exposed {001} facets: synthesis, characterization and visible-light photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4853-4861.	1.3	282
85	Improvement of the Kruk-Jaroniec-Sayari Method for Pore Size Analysis of Ordered Silicas with Cylindrical Mesopores. <i>Langmuir</i> , 2006, 22, 6757-6760.	1.6	275
86	Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> @N-Doped Carbon Hollow Spheres for Sodium-Ion Batteries with Excellent Rate Performance. <i>Advanced Materials</i> , 2017, 29, 1700989.	11.1	275
87	Facile Synthesis of Ordered Mesoporous Alumina and Alumina-Supported Metal Oxides with Tailored Adsorption and Framework Properties. <i>Chemistry of Materials</i> , 2011, 23, 1147-1157.	3.2	268
88	Non-Noble Plasmonic Metal-Based Photocatalysts. <i>Chemical Reviews</i> , 2022, 122, 10484-10537.	23.0	268
89	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. <i>Energy and Environmental Science</i> , 2020, 13, 1096-1131.	15.6	266
90	Novel Bifunctional Periodic Mesoporous Organosilicas, BPMOs: Synthesis, Characterization, Properties and in-Situ Selective Hydroboration-Alcoholysis Reactions of Functional Groups. <i>Journal of the American Chemical Society</i> , 2001, 123, 8520-8530.	6.6	260

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91	Characterization of semiconductor photocatalysts. <i>Chemical Society Reviews</i> , 2019, 48, 5184-5206.	18.7	260
92	Graphitized Pitch-Based Carbons with Ordered Nanopores Synthesized by Using Colloidal Crystals as Templates. <i>Journal of the American Chemical Society</i> , 2005, 127, 4188-4189.	6.6	252
93	Synthesis and Characterization of Hexagonally Ordered Carbon Nanopipes. <i>Chemistry of Materials</i> , 2003, 15, 2815-2823.	3.2	250
94	Tunable photocatalytic selectivity of TiO <sub>2</sub> films consisted of flower-like microspheres with exposed {001} facets. <i>Chemical Communications</i> , 2011, 47, 4532.	2.2	250
95	Nickel-based materials for supercapacitors. <i>Materials Today</i> , 2019, 25, 35-65.	8.3	247
96	Nitrogen Adsorption Studies of Novel Synthetic Active Carbons. <i>Journal of Colloid and Interface Science</i> , 1997, 192, 250-256.	5.0	243
97	Mesoporous hybrid material composed of Mn <sub>3</sub> O <sub>4</sub> nanoparticles on nitrogen-doped graphene for highly efficient oxygen reduction reaction. <i>Chemical Communications</i> , 2013, 49, 7705-7707.	2.2	241
98	Preparation and enhanced visible-light photocatalytic H <sub>2</sub> -production activity of CdS-sensitized Pt/TiO <sub>2</sub> nanosheets with exposed (001) facets. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8915.	1.3	235
99	Expanding the Pore Size of MCM-41 Silicas: Use of Amines as Expanders in Direct Synthesis and Postsynthesis Procedures. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3651-3658.	1.2	234
100	Template-free synthesis of hierarchical spindle-like $\gamma$ -Al <sub>2</sub> O <sub>3</sub> materials and their adsorption affinity towards organic and inorganic pollutants in water. <i>Journal of Materials Chemistry</i> , 2010, 20, 4587.	6.7	232
101	Colloidal Imprinting: A Novel Approach to the Synthesis of Mesoporous Carbons. <i>Journal of the American Chemical Society</i> , 2001, 123, 9208-9209.	6.6	231
102	Mesoporous MnCo <sub>2</sub> O <sub>4</sub> with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8676-8682.	5.2	227
103	The solution of adsorption integral equations by means of the regularization method. <i>Journal of Computational Chemistry</i> , 1992, 13, 17-32.	1.5	225
104	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. <i>Advanced Materials</i> , 2017, 29, 1604607.	11.1	224
105	Anomalous hydrogen evolution behavior in high-pH environment induced by locally generated hydronium ions. <i>Nature Communications</i> , 2019, 10, 4876.	5.8	220
106	Periodic Mesoporous Organosilica with Large Heterocyclic Bridging Groups. <i>Journal of the American Chemical Society</i> , 2005, 127, 60-61.	6.6	217
107	Toward designing semiconductor-semiconductor heterojunctions for photocatalytic applications. <i>Applied Surface Science</i> , 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. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4640-4646.	1.2	208

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109	Silica "metal core" shell nanostructures. <i>Advances in Colloid and Interface Science</i> , 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 H <sub>2</sub> -production activity. <i>Journal of Materials Chemistry</i> , 2011, 21, 14655.	6.7	203
111	Synthesis of Mesoporous Carbons Using Ordered and Disordered Mesoporous Silica Templates and Polyacrylonitrile as Carbon Precursor. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9216-9225.	1.2	200
112	Efficient catalytic removal of formaldehyde at room temperature using AlOOH nanoflakes with deposited Pt. <i>Applied Catalysis B: Environmental</i> , 2015, 163, 306-312.	10.8	199
113	Integrating 2D/2D CdS/Fe <sub>2</sub> O <sub>3</sub> ultrathin bilayer Z-scheme heterojunction with metallic NiS nanosheet-based ohmic-junction for efficient photocatalytic H <sub>2</sub> evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118619.	10.8	199
114	Synthesis of Hierarchical Flower-like AlOOH and TiO <sub>2</sub> /AlOOH Superstructures and their Enhanced Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17527-17535.	1.5	198
115	Room-temperature catalytic oxidation of formaldehyde on catalysts. <i>Catalysis Science and Technology</i> , 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. <i>Chemistry of Materials</i> , 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. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14739-14746.	1.5	194
118	From waste Coca Cola® to activated carbons with impressive capabilities for CO <sub>2</sub> adsorption and supercapacitors. <i>Carbon</i> , 2017, 116, 490-499.	5.4	188
119	New Approaches to Pore Size Engineering of Mesoporous Silicates. <i>Advanced Materials</i> , 1998, 10, 1376-1379.	11.1	185
120	Evaluation of the Fractal Dimension from a Single Adsorption Isotherm. <i>Langmuir</i> , 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. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2205-2213.	1.2	184
122	A Regularly Channeled Lamellar Membrane for Unparalleled Water and Organics Permeation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6814-6818.	7.2	183
123	Phosphorus Vacancies that Boost Electrocatalytic Hydrogen Evolution by Two Orders of Magnitude. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8181-8186.	7.2	183
124	Physical adsorption on heterogeneous solids. <i>Advances in Colloid and Interface Science</i> , 1983, 18, 149-225.	7.0	179
125	Carbon-based two-dimensional layered materials for photocatalytic CO <sub>2</sub> reduction to solar fuels. <i>Energy Storage Materials</i> , 2016, 3, 24-35.	9.5	178
126	Amidoxime-modified mesoporous silica for uranium adsorption under seawater conditions. <i>Journal of Materials Chemistry A</i> , 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. <i>Environmental Science &amp; Technology</i> , 2015, 49, 6637-6644.	4.6	171
128	Modification of SBA-15 pore connectivity by high-temperature calcination investigated by carbon inverse replication. <i>Chemical Communications</i> , 2001, , 349-350.	2.2	170
129	Ultrathin Titanate Nanosheets/Graphene Films Derived from Confined Transformation for Excellent Na/K Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8540-8544.	7.2	170
130	KOH activation of mesoporous carbons obtained by soft-templating. <i>Carbon</i> , 2008, 46, 1159-1161.	5.4	168
131	Adsorption on heterogeneous surfaces: The exponential equation for the overall adsorption isotherm. <i>Surface Science</i> , 1975, 50, 553-564.	0.8	167
132	Benzoylthiourea-Modified Mesoporous Silica for Mercury(II) Removal. <i>Langmuir</i> , 2003, 19, 3031-3034.	1.6	165
133	Mechanochemical synthesis of highly porous materials. <i>Materials Horizons</i> , 2020, 7, 1457-1473.	6.4	165
134	Atomic-level structure engineering of metal oxides for high-rate oxygen intercalation pseudocapacitance. <i>Science Advances</i> , 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. <i>Chemistry of Materials</i> , 2000, 12, 222-230.	3.2	162
136	Characterization of mesoporous carbons synthesized with SBA-16 silica template. <i>Journal of Materials Chemistry</i> , 2005, 15, 1560.	6.7	162
137	Coconut shell-based microporous carbons for CO <sub>2</sub> capture. <i>Microporous and Mesoporous Materials</i> , 2013, 180, 280-283.	2.2	161
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