Mietek Jaroniec

List of Publications by Citations

880 papers	94,508 citations	134 h-index	293 g-index
916 ext. papers	104,404 ext. citations	7.8 avg, IF	8.9 L-index

#	Paper	IF	Citations
880	Design of electrocatalysts for oxygen- and hydrogen-involving energy conversion reactions. *Chemical Society Reviews*, **2015**, 44, 2060-86	58.5	3275
879	Gas Adsorption Characterization of Ordered Organic□Inorganic Nanocomposite Materials. *Chemistry of Materials*, **2001**, 13, 3169-3183	9.6	2680
878	Polymeric photocatalysts based on graphitic carbon nitride. *Advanced Materials*, **2015**, 27, 2150-76	24	2367
877	Graphene-based semiconductor photocatalysts. *Chemical Society Reviews*, **2012**, 41, 782-96	58.5	2274
876	Synthesis of New, Nanoporous Carbon with Hexagonally Ordered Mesostructure. *Journal of the American Chemical Society*, **2000**, 122, 10712-10713	16.4	2131
875	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, 6575-8	16.4	2059
874	Heterojunction Photocatalysts. *Advanced Materials*, **2017**, 29, 1601694	24	2003
873	Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. *Chemical Society Reviews*, **2014**, 43, 7787-812	58.5	1751
872	Sulfur and nitrogen dual-doped mesoporous graphene electrocatalyst for oxygen reduction with synergistically enhanced performance. *Angewandte Chemie - International Edition*, **2012**, 51, 11496-500	16.4	1726
871	All-solid-state Z-scheme photocatalytic systems. *Advanced Materials*, **2014**, 26, 4920-35	24	1654
870	Hydrogen evolution by a metal-free electrocatalyst. *Nature Communications*, **2014**, 5, 3783	17.4	1572
869	Metal-organic framework derived hybrid Co3O4-carbon porous nanowire arrays as reversible oxygen evolution electrodes. *Journal of the American Chemical Society*, **2014**, 136, 13925-31	16.4	1512
868	Preparation and Enhanced Visible-Light Photocatalytic H2-Production Activity of Graphene/C3N4 Composites. *Journal of Physical Chemistry C*, **2011**, 115, 7355-7363	3.8	1511
867	Enhanced photocatalytic CO□reduction activity of anatase TiO□by coexposed {001} and {101} facets. *Journal of the American Chemical Society*, **2014**, 136, 8839-42	16.4	1449
866	Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. *Energy and Environmental Science*, **2012**, 5, 6717	35.4	1385
865	Advancing the electrochemistry of the hydrogen-evolution reaction through combining experiment and theory. *Angewandte Chemie - International Edition*, **2015**, 54, 52-65	16.4	1282
864	Hierarchical photocatalysts. *Chemical Society Reviews*, **2016**, 45, 2603-36	58.5	1216

863	Characterization of the Porous Structure of SBA-15. *Chemistry of Materials*, **2000**, 12, 1961-1968	9.6	1137
862	Hydrogen Production by Photocatalytic Water Splitting over Pt/TiO2 Nanosheets with Exposed (001) Facets. *Journal of Physical Chemistry C*, **2010**, 114, 13118-13125	3.8	979
861	Cocatalysts for Selective Photoreduction of CO into Solar Fuels. *Chemical Reviews*, **2019**, 119, 3962-4179	68.1	965
860	Tunable photocatalytic selectivity of hollow TiO2 microspheres composed of anatase polyhedra with exposed {001} facets. *Journal of the American Chemical Society*, **2010**, 132, 11914-6	16.4	935
859	Nanoporous graphitic-C3N4@carbon metal-free electrocatalysts for highly efficient oxygen reduction. *Journal of the American Chemical Society*, **2011**, 133, 20116-9	16.4	869
858	Toward design of synergistically active carbon-based catalysts for electrocatalytic hydrogen evolution. *ACS Nano*, **2014**, 8, 5290-6	16.7	802
857	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, 4394-403	16.4	794
856	Noble metal-free reduced graphene oxide-ZnxCd1-xS nanocomposite with enhanced solar photocatalytic H2production performance. *Nano Letters*, **2012**, 12, 4584-9	11.5	777
855	Two-step boron and nitrogen doping in graphene for enhanced synergistic catalysis. *Angewandte Chemie - International Edition*, **2013**, 52, 3110-6	16.4	776
854	Direct Z-scheme photocatalysts: Principles, synthesis, and applications. *Materials Today*, **2018**, 21, 1042-1063	21.1	737
853	Molecular-based design and emerging applications of nanoporous carbon spheres. *Nature Materials* , **2015**, 14, 763-74	27	712
852	High-performance sodium ion batteries based on a 3D anode from nitrogen-doped graphene foams. *Advanced Materials*, **2015**, 27, 2042-8	24	695
851	Enhanced photocatalytic H2production activity of graphene-modified titania nanosheets. *Nanoscale*, **2011**, 3, 3670-8	7.7	678
850	Heteroatom-Doped Graphene-Based Materials for Energy-Relevant Electrocatalytic Processes. *ACS Catalysis*, **2015**, 5, 5207-5234	13.1	675
849	Phosphorus-doped graphitic carbon nitrides grown in situ on carbon-fiber paper: flexible and reversible oxygen electrodes. *Angewandte Chemie - International Edition*, **2015**, 54, 4646-50	16.4	654
848	Graphitic carbon nitride nanosheet-carbon nanotube three-dimensional porous composites as high-performance oxygen evolution electrocatalysts. *Angewandte Chemie - International Edition*, **2014**, 53, 7281-5	16.4	651
847	Anatase TiO2 with Dominant High-Energy {001} Facets: Synthesis, Properties, and Applications. *Chemistry of Materials*, **2011**, 23, 4085-4093	9.6	615
846	Cocatalysts in Semiconductor-based Photocatalytic CO Reduction: Achievements, Challenges, and Opportunities. *Advanced Materials*, **2018**, 30, 1704649	24	614

845	Block-Copolymer-Templated Ordered Mesoporous Silica: Array of Uniform Mesopores or Mesopore–Micropore Network?. *Journal of Physical Chemistry B*, **2000**, 104, 11465-11471	3.4	588
844	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. *Journal of the American Chemical Society*, **2016**, 138, 16174-16181	16.4	586
843	Porous C3N4 nanolayers@N-graphene films as catalyst electrodes for highly efficient hydrogen evolution. *ACS Nano*, **2015**, 9, 931-40	16.7	569
842	Self-Templating Synthesis of Hollow Co O Microtube Arrays for Highly Efficient Water Electrolysis. *Angewandte Chemie - International Edition*, **2017**, 56, 1324-1328	16.4	558
841	Facile oxygen reduction on a three-dimensionally ordered macroporous graphitic C3N4/carbon composite electrocatalyst. *Angewandte Chemie - International Edition*, **2012**, 51, 3892-6	16.4	549
840	Nitrogen and oxygen dual-doped carbon hydrogel film as a substrate-free electrode for highly efficient oxygen evolution reaction. *Advanced Materials*, **2014**, 26, 2925-30	24	521
839	Nanostructured metal-free electrochemical catalysts for highly efficient oxygen reduction. *Small*, **2012**, 8, 3550-66	11	518
838	Three-dimensional N-doped graphene hydrogel/NiCo double hydroxide electrocatalysts for highly efficient oxygen evolution. *Angewandte Chemie - International Edition*, **2013**, 52, 13567-70	16.4	498
837	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO2 Adsorption. *Chemistry of Materials*, **2014**, 26, 2820-2828	9.6	480
836	Interacting Carbon Nitride and Titanium Carbide Nanosheets for High-Performance Oxygen Evolution. *Angewandte Chemie - International Edition*, **2016**, 55, 1138-42	16.4	478
835	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. *Nature Communications*, **2016**, 7, 12876	17.4	471
834	Standard Nitrogen Adsorption Data for Characterization of Nanoporous Silicas. *Langmuir*, **1999**, 15, 5410–5413		467
833	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic CO2 reduction. *Journal of Materials Chemistry A*, **2017**, 5, 3230-3238	13	465
832	Roadmap for advanced aqueous batteries: From design of materials to applications. *Science Advances*, **2020**, 6, eaba4098	14.3	455
831	A noble metal-free reduced graphene oxide–CdS nanorod composite for the enhanced visible-light photocatalytic reduction of CO2 to solar fuel. *Journal of Materials Chemistry A*, **2014**, 2, 3407	13	433
830	An isotherm equation for adsorption on fractal surfaces of heterogeneous porous materials. *Langmuir*, **1989**, 5, 1431-1433	4	429
829	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	16.4	390
828	Optimization of mesoporous carbon structures for lithium–sulfur battery applications. *Journal of Materials Chemistry*, **2011**, 21, 16603		382

827	Understanding the Roadmap for Electrochemical Reduction of CO to Multi-Carbon Oxygenates and Hydrocarbons on Copper-Based Catalysts. *Journal of the American Chemical Society*, **2019**, 141, 7646-7659	16.4	371
826	Fabrication and enhanced visible-light photocatalytic activity of carbon self-doped TiO2 sheets with exposed {001} facets. *Journal of Materials Chemistry*, **2011**, 21, 1049-1057		360
825	Ordered mesoporous silica with large cage-like pores: structural identification and pore connectivity design by controlling the synthesis temperature and time. *Journal of the American Chemical Society*, **2003**, 125, 821-9	16.4	349
824	Molecular Scaffolding Strategy with Synergistic Active Centers To Facilitate Electrocatalytic CO Reduction to Hydrocarbon/Alcohol. *Journal of the American Chemical Society*, **2017**, 139, 18093-18100	16.4	341
823	Activated carbon spheres for CO2 adsorption. *ACS Applied Materials & Interfaces*, **2013**, 5, 1849-55	9.5	339
822	Two-Step Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. *Angewandte Chemie*, **2013**, 125, 3192-3198	3.6	332
821	Determination of the Electron Transfer Number for the Oxygen Reduction Reaction: From Theory to Experiment. *ACS Catalysis*, **2016**, 6, 4720-4728	13.1	327
820	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, 14846-57	16.4	327
819	Ni(OH)2 modified CdS nanorods for highly efficient visible-light-driven photocatalytic H2 generation. *Green Chemistry*, **2011**, 13, 2708	10	327
818	Importance of small micropores in CO2 capture by phenolic resin-based activated carbon spheres. *Journal of Materials Chemistry A*, **2013**, 1, 112-116	13	324
817	Nitrogen self-doped nanosized TiO2 sheets with exposed {001} facets for enhanced visible-light photocatalytic activity. *Chemical Communications*, **2011**, 47, 6906-8	5.8	319
816	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	3.4	318
815	Ordered mesoporous alumina-supported metal oxides. *Journal of the American Chemical Society*, **2008**, 130, 15210-6	16.4	314
814	Characterization of Large-Pore MCM-41 Molecular Sieves Obtained via Hydrothermal Restructuring. *Chemistry of Materials*, **1997**, 9, 2499-2506	9.6	311
813	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	3.4	310
812	Enhanced performance of NaOH-modified Pt/TiO2 toward room temperature selective oxidation of formaldehyde. *Environmental Science & Technology*, **2013**, 47, 2777-83	10.3	309
811	Preparation and enhanced visible-light photocatalytic H2-production activity of CdS quantum dots-sensitized Zn1−xCdxS solid solution. *Green Chemistry*, **2010**, 12, 1611	10	306
810	Semiconductor-based photocatalytic CO2 conversion. *Materials Horizons*, **2015**, 2, 261-278	14.4	302

809	Characterization of Ordered Mesoporous Carbons Synthesized Using MCM-48 Silicas as Templates. *Journal of Physical Chemistry B*, **2000**, 104, 7960-7968	3.4	290
808	N-doped graphene film-confined nickel nanoparticles as a highly efficient three-dimensional oxygen evolution electrocatalyst. *Energy and Environmental Science*, **2013**, 6, 3693	35.4	282
807	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. *Nature Communications*, **2017**, 8, 1509	17.4	276
806	Nitrogen and sulfur co-doped TiO2 nanosheets with exposed {001} facets: synthesis, characterization and visible-light photocatalytic activity. *Physical Chemistry Chemical Physics*, **2011**, 13, 4853-61	3.6	264
805	Facet effect of Pd cocatalyst on photocatalytic CO 2 reduction over g-C 3 N 4. *Journal of Catalysis*, **2017**, 349, 208-217	7.3	262
804	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. *Nanoscale*, **2015**, 7, 17590-610	7.7	259
803	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 8539-8543	16.4	254
802	Improvement of the Kruk-Jaroniec-Sayari method for pore size analysis of ordered silicas with cylindrical mesopores. *Langmuir*, **2006**, 22, 6757-60	4	251
801	Photocatalytic hydrogen production over CuO-modified titania. *Journal of Colloid and Interface Science*, **2011**, 357, 223-8	9.3	247
800	Facile Synthesis of Ordered Mesoporous Alumina and Alumina-Supported Metal Oxides with Tailored Adsorption and Framework Properties. *Chemistry of Materials*, **2011**, 23, 1147-1157	9.6	246
799	Novel bifunctional periodic mesoporous organosilicas, BPMOs: synthesis, characterization, properties and in-situ selective hydroboration-alcoholysis reactions of functional groups. *Journal of the American Chemical Society*, **2001**, 123, 8520-30	16.4	244
798	Synthesis and Characterization of Hexagonally Ordered Carbon Nanopipes. *Chemistry of Materials*, **2003**, 15, 2815-2823	9.6	240
797	Tunable photocatalytic selectivity of TiO2 films consisted of flower-like microspheres with exposed {001} facets. *Chemical Communications*, **2011**, 47, 4532-4	5.8	237
796	Sulfur and Nitrogen Dual-Doped Mesoporous Graphene Electrocatalyst for Oxygen Reduction with Synergistically Enhanced Performance. *Angewandte Chemie*, **2012**, 124, 11664-11668	3.6	234
795	Nitrogen Adsorption Studies of Novel Synthetic Active Carbons. *Journal of Colloid and Interface Science*, **1997**, 192, 250-6	9.3	229
794	Graphitized pitch-based carbons with ordered nanopores synthesized by using colloidal crystals as templates. *Journal of the American Chemical Society*, **2005**, 127, 4188-9	16.4	229
793	Na Ti O @N-Doped Carbon Hollow Spheres for Sodium-Ion Batteries with Excellent Rate Performance. *Advanced Materials*, **2017**, 29, 1700989	24	226
792	Mesoporous hybrid material composed of Mn3O4 nanoparticles on nitrogen-doped graphene for highly efficient oxygen reduction reaction. *Chemical Communications*, **2013**, 49, 7705-7	5.8	226

791	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, 8915-23	3.6	222
790	Template-free synthesis of hierarchical spindle-like γ-Al2O3 materials and their adsorption affinity towards organic and inorganic pollutants in water. *Journal of Materials Chemistry*, **2010**, 20, 4587		215
789	The solution of adsorption integral equations by means of the regularization method. *Journal of Computational Chemistry*, **1992**, 13, 17-32	3.5	214
788	Periodic mesoporous organosilica with large heterocyclic bridging groups. *Journal of the American Chemical Society*, **2005**, 127, 60-1	16.4	211
787	Expanding the Pore Size of MCM-41 Silicas: Use of Amines as Expanders in Direct Synthesis and Postsynthesis Procedures. *Journal of Physical Chemistry B*, **1999**, 103, 3651-3658	3.4	211
786	Colloidal imprinting: a novel approach to the synthesis of mesoporous carbons. *Journal of the American Chemical Society*, **2001**, 123, 9208-9	16.4	209
785	Charge-Redistribution-Enhanced Nanocrystalline Ru@IrOx Electrocatalysts for Oxygen Evolution in Acidic Media. *CheM*, **2019**, 5, 445-459	16.2	205
784	Mesoporous MnCo2O4 with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. *Journal of Materials Chemistry A*, **2014**, 2, 8676-8682	13	196
783	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. *Advanced Materials*, **2017**, 29, 1604607	24	194
782	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	3.4	192
781	Synthesis of Hierarchical Flower-like AlOOH and TiO2/AlOOH Superstructures and their Enhanced Photocatalytic Properties. *Journal of Physical Chemistry C*, **2009**, 113, 17527-17535	3.8	188
780	Synthesis of mesoporous carbons using ordered and disordered mesoporous silica templates and polyacrylonitrile as carbon precursor. *Journal of Physical Chemistry B*, **2005**, 109, 9216-25	3.4	186
779	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	9.6	183
778	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	3.8	182
777	Silica-metal core-shell nanostructures. *Advances in Colloid and Interface Science*, **2012**, 170, 28-47	14.3	181
776	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		179
775	Physical adsorption on heterogeneous solids. *Advances in Colloid and Interface Science*, **1983**, 18, 149-225	14.3	171
774	New Approaches to Pore Size Engineering of Mesoporous Silicates. *Advanced Materials*, **1998**, 10, 1376-1379	24	170

773	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	3.4	167
772	Efficient catalytic removal of formaldehyde at room temperature using AlOOH nanoflakes with deposited Pt. *Applied Catalysis B: Environmental*, **2015**, 163, 306-312	21.8	165
771	Modification of SBA-15 pore connectivity by high-temperature calcination investigated by carbon inverse replication. *Chemical Communications*, **2001**, 349-350	5.8	161
770	Evaluation of the Fractal Dimension from a Single Adsorption Isotherm. *Langmuir*, **1995**, 11, 2316-2317	4	158
769	Room-temperature catalytic oxidation of formaldehyde on catalysts. *Catalysis Science and Technology*, **2016**, 6, 3649-3669	5.5	153
768	Benzoylthiourea-Modified Mesoporous Silica for Mercury(II) Removal. *Langmuir*, **2003**, 19, 3031-3034	4	153
767	From waste Coca Cola to activated carbons with impressive capabilities for CO2 adsorption and supercapacitors. *Carbon*, **2017**, 116, 490-499	10.4	152
766	Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. *Materials Today*, **2020**, 36, 125-138	21.8	152
765	KOH activation of mesoporous carbons obtained by soft-templating. *Carbon*, **2008**, 46, 1159-1161	10.4	152
764	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	9.6	149
763	Adsorption on heterogeneous surfaces: The exponential equation for the overall adsorption isotherm. *Surface Science*, **1975**, 50, 553-564	1.8	149
762	Periodic Mesoporous Organosilica with Large Cagelike Pores. *Chemistry of Materials*, **2002**, 14, 1903-1905	9.6	147
761	Carbon-based two-dimensional layered materials for photocatalytic CO 2 reduction to solar fuels. *Energy Storage Materials*, **2016**, 3, 24-35	19.4	146
760	Facile Oxygen Reduction on a Three-Dimensionally Ordered Macroporous Graphitic C3N4/Carbon Composite Electrocatalyst. *Angewandte Chemie*, **2012**, 124, 3958-3962	3.6	146
759	Characterization of mesoporous carbons synthesized with SBA-16 silica template. *Journal of Materials Chemistry*, **2005**, 15, 1560		146
758	Highly active mesoporous ferrihydrite supported pt catalyst for formaldehyde removal at room temperature. *Environmental Science & Technology*, **2015**, 49, 6637-44	10.3	143
757	Fluorinated semiconductor photocatalysts: tunable synthesis and unique properties. *Advances in Colloid and Interface Science*, **2012**, 173, 35-53	14.3	142
756	Toward designing semiconductor-semiconductor heterojunctions for photocatalytic applications. *Applied Surface Science*, **2018**, 430, 2-17	6.7	141

755	Ultrathin Titanate Nanosheets/Graphene Films Derived from Confined Transformation for Excellent Na/K Ion Storage. *Angewandte Chemie - International Edition*, **2018**, 57, 8540-8544	16.4	140
754	Amidoxime-modified mesoporous silica for uranium adsorption under seawater conditions. *Journal of Materials Chemistry A*, **2015**, 3, 11650-11659	13	137
753	Elektrochemie der Wasserstoffentwicklungsreaktion: Optimierung durch Korrelation von Experiment und Theorie. *Angewandte Chemie*, **2015**, 127, 52-66	3.6	137
752	Synthesis and properties of 1,3,5-benzene periodic mesoporous organosilica (PMO): novel aromatic PMO with three point attachments and unique thermal transformations. *Journal of the American Chemical Society*, **2002**, 124, 13886-95	16.4	137
751	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	3.4	137
750	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	9.6	136
749	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. *Energy and Environmental Science*, **2020**, 13, 1096-1131	35.4	135
748	Ionic-liquid-assisted synthesis of uniform fluorinated B/C-codoped TiO2 nanocrystals and their enhanced visible-light photocatalytic activity. *Chemistry - A European Journal*, **2013**, 19, 2433-41	4.8	134
747	Characterization of Highly Ordered MCM-41 Silicas Using X-ray Diffraction and Nitrogen Adsorption. *Langmuir*, **1999**, 15, 5279-5284	4	134
746	Nickel-based materials for supercapacitors. *Materials Today*, **2019**, 25, 35-65	21.8	133
745	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, 10026-7	16.4	131
744	Atomic-level structure engineering of metal oxides for high-rate oxygen intercalation pseudocapacitance. *Science Advances*, **2018**, 4, eaau6261	14.3	130
743	Graphitic Carbon Nitride Nanosheet□Carbon Nanotube Three-Dimensional Porous Composites as High-Performance Oxygen Evolution Electrocatalysts. *Angewandte Chemie*, **2014**, 126, 7409-7413	3.6	128
742	Recent progress in determination of energetic heterogeneity of solids from adsorption data. *Surface Science Reports*, **1986**, 6, 65-117	12.9	128
741	Temperature-programmed microwave-assisted synthesis of SBA-15 ordered mesoporous silica. *Journal of the American Chemical Society*, **2006**, 128, 14408-14	16.4	127
740	Nitrogen Adsorption Study of Surface Properties of Graphitized Carbon Blacks. *Langmuir*, **1999**, 15, 1435-1441	4	127
739	Characterization of semiconductor photocatalysts. *Chemical Society Reviews*, **2019**, 48, 5184-5206	58.5	126
738	Facile Hydrothermal Synthesis of Hierarchical Boehmite: Sulfate-Mediated Transformation from Nanoflakes to Hollow Microspheres. *Crystal Growth and Design*, **2010**, 10, 3977-3982	3.5	126

737	New Approach to Evaluate Pore Size Distributions and Surface Areas for Hydrophobic Mesoporous Solids. *Journal of Physical Chemistry B*, **1999**, 103, 10670-10678	3.4	124
736	Tailoring properties of SBA-15 materials by controlling conditions of hydrothermal synthesis. *Journal of Materials Chemistry*, **2005**, 15, 5049		123
735	1-Allyl-3-propylthiourea modified mesoporous silica for mercury removal. *Chemical Communications* , **2002**, 258-9	5.8	122
734	A Regularly Channeled Lamellar Membrane for Unparalleled Water and Organics Permeation. *Angewandte Chemie - International Edition*, **2018**, 57, 6814-6818	16.4	121
733	Grafting Monodisperse Polymer Chains from Concave Surfaces of Ordered Mesoporous Silicas. *Macromolecules*, **2008**, 41, 8584-8591	5.5	121
732	A flexible bio-inspired H2-production photocatalyst. *Applied Catalysis B: Environmental*, **2018**, 220, 148-160	22.8	120
731	Functionalized Mesoporous Materials Obtained via Interfacial Reactions in Self-Assembled Silica□Surfactant Systems. *Chemistry of Materials*, **2000**, 12, 2496-2501	9.6	119
730	Synthesis and applications of porous non-silica metal oxide submicrospheres. *Chemical Society Reviews*, **2016**, 45, 6013-6047	58.5	118
729	Anomalous hydrogen evolution behavior in high-pH environment induced by locally generated hydronium ions. *Nature Communications*, **2019**, 10, 4876	17.4	118
728	Coconut shell-based microporous carbons for CO2 capture. *Microporous and Mesoporous Materials*, **2013**, 180, 280-283	5.3	115
727	Rattle-type carbon-alumina core-shell spheres: synthesis and application for adsorption of organic dyes. *ACS Applied Materials & Interfaces*, **2012**, 4, 2174-9	9.5	115
726	Determination and tailoring the pore entrance size in ordered silicas with cage-like mesoporous structures. *Journal of the American Chemical Society*, **2002**, 124, 768-9	16.4	115
725	Partition and displacement models in reversed-phase liquid chromatography with mixed eluents. *Journal of Chromatography A*, **1993**, 656, 37-50	4.5	115
724	Characterization of MCM-48 Silicas with Tailored Pore Sizes Synthesized via a Highly Efficient Procedure. *Chemistry of Materials*, **2000**, 12, 1414-1421	9.6	114
723	Integrating 2D/2D CdS/□Fe2O3 ultrathin bilayer Z-scheme heterojunction with metallic □NiS nanosheet-based ohmic-junction for efficient photocatalytic H2 evolution. *Applied Catalysis B: Environmental*, **2020**, 266, 118619	21.8	114
722	Metamorphosis of ordered mesopores to micropores: 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, 6383-92	16.4	113
721	Hierarchically porous phenolic resin-based carbons obtained by block copolymer-colloidal silica templating and post-synthesis activation with carbon dioxide and water vapor. *Carbon*, **2011**, 49, 154-160	10.4	111
720	Synthesis of amino-functionalized mesoporous alumina with enhanced affinity towards Cr(VI) and CO2. *Chemical Engineering Journal*, **2014**, 239, 207-215	14.7	110

719	Enhancement of CO2 adsorption on phenolic resin-based mesoporous carbons by KOH activation. *Carbon*, **2013**, 65, 334-340	10.4	109
718	Synthesis of ordered and disordered silicas with uniform pores on the border between micropore and mesopore regions using short double-chain surfactants. *Journal of the American Chemical Society*, **2001**, 123, 1650-7	16.4	108
717	Hierarchically macro-mesoporous Pt/Al2O3 composite microspheres for efficient formaldehyde oxidation at room temperature. *Scientific Reports*, **2013**, 3, 3215	4.9	107
716	Potassium salt-assisted synthesis of highly microporous carbon spheres for CO2 adsorption. *Carbon* , **2015**, 82, 297-303	10.4	105
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