Mietek Jaroniec

List of Publications by Year in Descending Order

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	Non-Noble Plasmonic Metal-Based Photocatalysts.. *Chemical Reviews*, **2022**,	68.1	20
879	Metal-metal interactions in correlated single-atom catalysts.. *Science Advances*, **2022**, 8, eabo0762	14.3	18
878	An aluminum lining to the dark cloud of silver resistance: harnessing the power of potent antimicrobial activity of alumina nanoparticles. *Biomaterials Science*, **2021**, 9, 7996-8006	7.4	3
877	Electrocatalytic Refinery for Sustainable Production of Fuels and Chemicals. *Angewandte Chemie*, **2021**, 133, 19724-19742	3.6	5
876	Electrocatalytic Refinery for Sustainable Production of Fuels and Chemicals. *Angewandte Chemie - International Edition*, **2021**, 60, 19572-19590	16.4	93
875	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	16.4	98
874	Mechanochemistry: Toward green synthesis of metal organic frameworks. *Materials Today*, **2021**, 46, 109-124	21.8	38
873	Engineering of Yolk/Core-Shell Structured Nanoreactors for Thermal Hydrogenations. *Small*, **2021**, 17, e1906250	11	29
872	Surface modification of zero-valent iron nanoparticles with cyclodextrin for 4-nitrophenol conversion. *Journal of Colloid and Interface Science*, **2021**, 586, 655-662	9.3	6
871	Toward development of single-atom ceramic catalysts for selective catalytic reduction of NO with NH. *Journal of Hazardous Materials*, **2021**, 401, 123413	12.8	9
870	Facile mechanochemical synthesis of highly mesoporous Al2O3 using boehmite. *Microporous and Mesoporous Materials*, **2021**, 312, 110792	5.3	7
869	Renaissance of Stber method for synthesis of colloidal particles: New developments and opportunities. *Journal of Colloid and Interface Science*, **2021**, 584, 838-865	9.3	39
868	Catalytic role of metals supported on SBA-16 in hydrodeoxygenation of chemical compounds derived from biomass processing.. *RSC Advances*, **2021**, 11, 9505-9517	3.7	1
867	Recent advances in mechanochemical synthesis of mesoporous metal oxides. *Materials Advances*, **2021**, 2, 2510-2523	3.3	6
866	Engineering nanoreactors for metal chalcogen batteries. *Energy and Environmental Science*, **2021**, 14, 540-575	35.4	26
865	Highly Porous Carbons Synthesized from Tannic Acid via a Combined Mechanochemical Salt-Templating and Mild Activation Strategy. *Molecules*, **2021**, 26,	4.8	2
864	Advances in Microwave Synthesis of Nanoporous Materials. *Advanced Materials*, **2021**, 33, e2103477	24	9

863	Nickel ferrocyanide as a high-performance urea oxidation electrocatalyst. *Nature Energy*, **2021**, 6, 904-912	62.3	57
862	Reversible electrochemical oxidation of sulfur in ionic liquid for high-voltage Al-S batteries. *Nature Communications*, **2021**, 12, 5714	17.4	13
861	Assessing the contribution of micropores and mesopores from nitrogen adsorption on nanoporous carbons: Application to pore size analysis. *Carbon*, **2021**, 183, 150-157	10.4	7
860	Single-Atom Photocatalysts for Emerging Reactions. *ACS Central Science*, **2021**, 7, 39-54	16.8	34
859	Major advances in the development of ordered mesoporous materials. *Chemical Communications*, **2020**, 56, 7836-7848	5.8	41
858	Ruthenium-containing SBA-12 catalysts for anisole hydrodeoxygenation. *Catalysis Today*, **2020**, 354, 67-76	5.3	8
857	A generalized strategy for synthesizing crystalline bismuth-containing nanomaterials. *Nanoscale*, **2020**, 12, 8277-8284	7.7	4
856	Mechanochemical synthesis of highly porous materials. *Materials Horizons*, **2020**, 7, 1457-1473	14.4	70
855	Potassium citrate-assisted eco-friendly synthesis of tannin-derived nitrogen-doped micromesoporous carbon microspheres. *Journal of Materials Science*, **2020**, 55, 13716-13736	4.3	5
854	Phosphorus Vacancies that Boost Electrocatalytic Hydrogen Evolution by Two Orders of Magnitude. *Angewandte Chemie*, **2020**, 132, 8258-8263	3.6	13
853	Strategies for design of electrocatalysts for hydrogen evolution under alkaline conditions. *Materials Today*, **2020**, 36, 125-138	21.8	152
852	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
851	Phosphorus Vacancies that Boost Electrocatalytic Hydrogen Evolution by Two Orders of Magnitude. *Angewandte Chemie - International Edition*, **2020**, 59, 8181-8186	16.4	99
850	Identification of preferentially exposed crystal facets by X-ray diffraction.. *RSC Advances*, **2020**, 10, 5585-5589	3.7	25
849	Fundamentals of adsorption for photocatalysis. *Interface Science and Technology*, **2020**, 39-62	2.3	5
848	Hierarchical porous photocatalysts. *Interface Science and Technology*, **2020**, 63-102	2.3	2
847	Roadmap for advanced aqueous batteries: From design of materials to applications. *Science Advances*, **2020**, 6, eaba4098	14.3	455
846	Mechanochemical synthesis of three-component graphene oxide/ordered mesoporous carbon/metal-organic framework composites. *Journal of Colloid and Interface Science*, **2020**, 577, 163-172	9.3	11

845	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
844	Revealing Principles for Design of Lean-Electrolyte Lithium Metal Anode via In Situ Spectroscopy. *Journal of the American Chemical Society*, **2020**, 142, 2012-2022	16.4	84
843	Recent Progress in Engineering the Atomic and Electronic Structure of Electrocatalysts via Cation Exchange Reactions. *Advanced Materials*, **2020**, 32, e2001866	24	45
842	Strategies for development of nanoporous materials with 2D building units. *Chemical Society Reviews*, **2020**,	58.5	16
841	Recent advances in the development and applications of biomass-derived carbons with uniform porosity. *Journal of Materials Chemistry A*, **2020**, 8, 18464-18491	13	27
840	Tannin-derived micro-mesoporous carbons prepared by one-step activation with potassium oxalate and CO. *Journal of Colloid and Interface Science*, **2020**, 558, 55-67	9.3	19
839	High benzene adsorption capacity of micro-mesoporous carbon spheres prepared from XAD-4 resin beads with pores protected effectively by silica. *Journal of Materials Science*, **2019**, 54, 13892-13900	4.3	8
838	Prussian blue-assisted one-pot synthesis of nitrogen-doped mesoporous graphitic carbon spheres for supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 22092-22102	13	13
837	One-pot synthesis of activated porous graphitic carbon spheres with cobalt nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 582, 123884	5.1	6
836	Revealing the Origin of Improved Reversible Capacity of Dual-Shell Bismuth Boxes Anode for Potassium-Ion Batteries. *Matter*, **2019**, 1, 1681-1693	12.7	62
835	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
834	0D/2D NiS2/V-MXene composite for electrocatalytic H2 evolution. *Journal of Catalysis*, **2019**, 375, 8-20	7.3	85
833	Breaking the volcano-plot limits for Pt-based electrocatalysts by selective tuning adsorption of multiple intermediates. *Journal of Materials Chemistry A*, **2019**, 7, 13635-13640	13	19
832	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
831	Polyvinyl pyrrolidone-assisted synthesis of size-tunable polymer spheres at elevated temperature and their conversion to nitrogen-containing carbon spheres. *Journal of Colloid and Interface Science*, **2019**, 549, 162-170	9.3	5
830	Development of nickel-incorporated MCM-41□arbon composites and their application in nitrophenol reduction. *Journal of Materials Chemistry A*, **2019**, 7, 9618-9628	13	32
829	Development of activated graphene-MOF composites for H2 and CH4 adsorption. *Adsorption*, **2019**, 25, 521-528	2.6	6
828	Multi-shell hollow structured Sb2S3 for sodium-ion batteries with enhanced energy density. *Nano Energy*, **2019**, 60, 591-599	17.1	100

827	Syngas production from electrocatalytic CO2 reduction with high energetic efficiency and current density. *Journal of Materials Chemistry A*, **2019**, 7, 7675-7682	13	47
826	The Application of Hollow Structured Anodes for Sodium-Ion Batteries: From Simple to Complex Systems. *Advanced Materials*, **2019**, 31, e1800492	24	96
825	Characterization of semiconductor photocatalysts. *Chemical Society Reviews*, **2019**, 48, 5184-5206	58.5	126
824	Ultrafast preparation of saccharide-derived carbon microspheres with excellent dispersibility via ammonium persulfate-assisted hydrothermal carbonization. *Journal of Materials Chemistry A*, **2019**, 7, 18840-18845	13	24
823	Amino acid-assisted synthesis of porous graphitic carbon spheres with highly dispersed Ni nanoparticles. *Carbon*, **2019**, 153, 206-216	10.4	13
822	Anomalous hydrogen evolution behavior in high-pH environment induced by locally generated hydronium ions. *Nature Communications*, **2019**, 10, 4876	17.4	118
821	Cocatalysts for Selective Photoreduction of CO into Solar Fuels. *Chemical Reviews*, **2019**, 119, 3962-4179	68.1	965
820	Nickel-based materials for supercapacitors. *Materials Today*, **2019**, 25, 35-65	21.8	133
819	Evaporation-induced self-assembly synthesis of nanostructured alumina-based mixed metal oxides with tailored porosity. *Journal of Colloid and Interface Science*, **2019**, 537, 725-735	9.3	11
818	Charge-Redistribution-Enhanced Nanocrystalline Ru@IrOx Electrocatalysts for Oxygen Evolution in Acidic Media. *CheM*, **2019**, 5, 445-459	16.2	205
817	Ultrahigh benzene adsorption capacity of graphene-MOF composite fabricated via MOF crystallization in 3D mesoporous graphene. *Microporous and Mesoporous Materials*, **2019**, 279, 387-394	5.3	34
816	Copper benzene-1,3,5-tricarboxylate (Cu-BTC) metal-organic framework (MOF) and porous carbon composites as efficient carbon dioxide adsorbents. *Journal of Colloid and Interface Science*, **2019**, 535, 122-132	9.3	53
815	Benzene adsorption on synthesized and commercial metal□organic frameworks. *Journal of Porous Materials*, **2019**, 26, 775-783	2.4	13
814	A Regularly Channeled Lamellar Membrane for Unparalleled Water and Organics Permeation. *Angewandte Chemie - International Edition*, **2018**, 57, 6814-6818	16.4	121
813	A Regularly Channeled Lamellar Membrane for Unparalleled Water and Organics Permeation. *Angewandte Chemie*, **2018**, 130, 6930-6934	3.6	17
812	Activated polypyrrole-derived carbon spheres for superior CO2 uptake at ambient conditions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 549, 147-154	5.1	16
811	Titelbild: A Regularly Channeled Lamellar Membrane for Unparalleled Water and Organics Permeation (Angew. Chem. 23/2018). *Angewandte Chemie*, **2018**, 130, 6819-6819	3.6	2
810	Capture of Iodide by Bismuth Vanadate and Bismuth Oxide: An Insight into the Process and its Aftermath. *ChemSusChem*, **2018**, 11, 1486-1493	8.3	12

809	Application of novel hierarchical niobium-containing zeolites for synthesis of alkyl lactate and lactic acid. *Journal of Colloid and Interface Science*, **2018**, 516, 379-383	9.3	18
808	Activated carbon derived from chitin aerogels: preparation and CO2 adsorption. *Cellulose*, **2018**, 25, 1911-1920	3.9	29
807	Cocatalysts in Semiconductor-based Photocatalytic CO Reduction: Achievements, Challenges, and Opportunities. *Advanced Materials*, **2018**, 30, 1704649	24	614
806	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
805	Toward designing semiconductor-semiconductor heterojunctions for photocatalytic applications. *Applied Surface Science*, **2018**, 430, 2-17	6.7	141
804	Highly porous carbons obtained by activation of polypyrrole/reduced graphene oxide as effective adsorbents for CO2, H2 and C6H6. *Journal of Porous Materials*, **2018**, 25, 621-627	2.4	18
803	A flexible bio-inspired H2-production photocatalyst. *Applied Catalysis B: Environmental*, **2018**, 220, 148-160	20.8	120
802	Ultrathin Titanate Nanosheets/Graphene Films Derived from Confined Transformation for Excellent Na/K Ion Storage. *Angewandte Chemie*, **2018**, 130, 8676-8680	3.6	29
801	Importance of surface modification of □alumina in creating its nanostructured composites with zeolitic imidazolate framework ZIF-67. *Journal of Colloid and Interface Science*, **2018**, 526, 497-504	9.3	16
800	In Situ Synthesis of Nitrogen-Enriched Activated Carbons from Procambarus clarkii Shells with Enhanced CO2 Adsorption Performance. *Energy & Fuels*, **2018**, 32, 9701-9710	4.1	17
799	Tailoring surface and structural properties of composite materials by coupling Pt-decorated graphene oxide and ZIF-8-derived carbon. *Applied Surface Science*, **2018**, 459, 760-766	6.7	9
798	Gas adsorption properties of hybrid graphene-MOF materials. *Journal of Colloid and Interface Science*, **2018**, 514, 801-813	9.3	99
797	One-Pot Synthesis of MeAl2O4 (Me = Ni, Co, or Cu) Supported on □Al2O3 with Ultralarge Mesopores: Enhancing Interfacial Defects in □Al2O3 To Facilitate the Formation of Spinel Structures at Lower Temperatures. *Chemistry of Materials*, **2018**, 30, 436-446	9.6	38
796	Facile formation of metallic bismuth/bismuth oxide heterojunction on porous carbon with enhanced photocatalytic activity. *Journal of Colloid and Interface Science*, **2018**, 513, 82-91	9.3	40
795	Effect of graphene oxide on the adsorption properties of ordered mesoporous carbons toward H2, C6H6, CH4 and CO2. *Microporous and Mesoporous Materials*, **2018**, 261, 105-110	5.3	27
794	Submicroreactors: The Development of Yolk□Shell-Structured Pd&ZnO@Carbon Submicroreactors with High Selectivity and Stability (Adv. Funct. Mater. 32/2018). *Advanced Functional Materials*, **2018**, 28, 1870227	15.6	1
793	Effect of metal-ligand ratio on the CO adsorption properties of Cu-BTC metal-organic frameworks.. *RSC Advances*, **2018**, 8, 35551-35556	3.7	12
792	Development of Alumina?Mesoporous Organosilica Hybrid Materials for Carbon Dioxide Adsorption at 25 °C. *Materials*, **2018**, 11,	3.5	6

791	Atomic-level structure engineering of metal oxides for high-rate oxygen intercalation pseudocapacitance. *Science Advances*, **2018**, 4, eaau6261	14.3	130
790	A boron imidazolate framework with mechanochromic and electrocatalytic properties. *Materials Horizons*, **2018**, 5, 1151-1155	14.4	36
789	2D-NLDFT adsorption models for porous oxides with corrugated cylindrical pores. *Journal of Colloid and Interface Science*, **2018**, 532, 588-597	9.3	16
788	Hollow mesoporous organosilica nanospheres templated with flower-like micelles of pentablock copolymers. *Journal of Colloid and Interface Science*, **2018**, 528, 124-134	9.3	13
787	Direct Z-scheme photocatalysts: Principles, synthesis, and applications. *Materials Today*, **2018**, 21, 1042-1063	20.3	737
786	The Development of Yolk–Shell-Structured Pd&ZnO@Carbon Submicroreactors with High Selectivity and Stability. *Advanced Functional Materials*, **2018**, 28, 1801737	15.6	60
785	One-Pot Synthesis of Mesoporous Ni-Ti-Al Ternary Oxides: Highly Active and Selective Catalysts for Steam Reforming of Ethanol. *ACS Applied Materials & Interfaces*, **2017**, 9, 6079-6092	9.5	35
784	Heterojunction Photocatalysts. *Advanced Materials*, **2017**, 29, 1601694	24	2003
783	Fabrication of core–shell, yolk–shell and hollow Fe3O4@carbon microboxes for high-performance lithium-ion batteries. *Materials Chemistry Frontiers*, **2017**, 1, 823-830	7.8	56
782	Design and synthesis of porous ZnTiO3/TiO2 nanocages with heterojunctions for enhanced photocatalytic H2 production. *Journal of Materials Chemistry A*, **2017**, 5, 11615-11622	13	47
781	From waste Coca Cola® to activated carbons with impressive capabilities for CO2 adsorption and supercapacitors. *Carbon*, **2017**, 116, 490-499	10.4	152
780	Na Ti O @N-Doped Carbon Hollow Spheres for Sodium-Ion Batteries with Excellent Rate Performance. *Advanced Materials*, **2017**, 29, 1700989	24	226
779	SBA-15 templating synthesis of mesoporous bismuth oxide for selective removal of iodide. *Journal of Colloid and Interface Science*, **2017**, 501, 248-255	9.3	16
778	Self-Templating Synthesis of Hollow Co3O4 Microtube Arrays for Highly Efficient Water Electrolysis. *Angewandte Chemie*, **2017**, 129, 1344-1348	3.6	68
777	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
776	Tetraethyl orthosilicate-assisted synthesis of nitrogen-containing porous carbon spheres. *Carbon*, **2017**, 121, 408-417	10.4	34
775	Effect of microstructure and surface hydroxyls on the catalytic activity of Au/AlOOH for formaldehyde removal at room temperature. *Journal of Colloid and Interface Science*, **2017**, 501, 164-174	9.3	54
774	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 8539-8543	16.4	254

773	Engineering High-Energy Interfacial Structures for High-Performance Oxygen-Involving Electrocatalysis. *Angewandte Chemie*, **2017**, 129, 8659-8663	3.6	32
772	Amidoxime-functionalized nanocrystalline cellulose–mesoporous silica composites for carbon dioxide sorption at ambient and elevated temperatures. *Journal of Materials Chemistry A*, **2017**, 5, 7462-7473	13	30
771	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
770	Gas adsorption properties of graphene-based materials. *Advances in Colloid and Interface Science*, **2017**, 243, 46-59	14.3	75
769	Atomically and Electronically Coupled Pt and CoO Hybrid Nanocatalysts for Enhanced Electrocatalytic Performance. *Advanced Materials*, **2017**, 29, 1604607	24	194
768	Titelbild: Self-Templating Synthesis of Hollow Co3O4 Microtube Arrays for Highly Efficient Water Electrolysis (Angew. Chem. 5/2017). *Angewandte Chemie*, **2017**, 129, 1181-1181	3.6	2
767	Preparation of highly ordered mesoporous ethane–silicas under weakly acidic conditions and their hydrothermal stability. *Journal of Materials Chemistry A*, **2017**, 5, 21378-21388	13	4
766	Dendritic porous yolk@ordered mesoporous shell structured heterogeneous nanocatalysts with enhanced stability. *Journal of Materials Chemistry A*, **2017**, 5, 21560-21569	13	37
765	Defect formation in metal–organic frameworks initiated by the crystal growth-rate and effect on catalytic performance. *Journal of Catalysis*, **2017**, 354, 84-91	7.3	49
764	Dual optimization of microporosity in carbon spheres for CO2 adsorption by using pyrrole as the carbon precursor and potassium salt as the activator. *Journal of Materials Chemistry A*, **2017**, 5, 19456-19466	13	17
763	Activating cobalt(II) oxide nanorods for efficient electrocatalysis by strain engineering. *Nature Communications*, **2017**, 8, 1509	17.4	276
762	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
761	Ultra-thin nanosheet assemblies of graphitic carbon nitride for enhanced photocatalytic CO2 reduction. *Journal of Materials Chemistry A*, **2017**, 5, 3230-3238	13	465
760	Tailoring porosity in carbon spheres for fast carbon dioxide adsorption. *Journal of Colloid and Interface Science*, **2017**, 487, 162-174	9.3	19
759	Hollow Carbon Nanospheres with Tunable Hierarchical Pores for Drug, Gene, and Photothermal Synergistic Treatment. *Small*, **2017**, 13, 1602592	11	92
758	Energy and environmental photocatalytic materials. *Applied Surface Science*, **2017**, 391, 71	6.7	9
757	High Electrocatalytic Hydrogen Evolution Activity of an Anomalous Ruthenium Catalyst. *Journal of the American Chemical Society*, **2016**, 138, 16174-16181	16.4	586
756	Synthesis and applications of porous non-silica metal oxide submicrospheres. *Chemical Society Reviews*, **2016**, 45, 6013-6047	58.5	118

755	Engineering surface atomic structure of single-crystal cobalt (II) oxide nanorods for superior electrocatalysis. *Nature Communications*, **2016**, 7, 12876	17.4	471
754	Interacting Carbon Nitride and Titanium Carbide Nanosheets for High-Performance Oxygen Evolution. *Angewandte Chemie*, **2016**, 128, 1150-1154	3.6	80
753	Interacting Carbon Nitride and Titanium Carbide Nanosheets for High-Performance Oxygen Evolution. *Angewandte Chemie - International Edition*, **2016**, 55, 1138-42	16.4	478
752	Determination of the Electron Transfer Number for the Oxygen Reduction Reaction: From Theory to Experiment. *ACS Catalysis*, **2016**, 6, 4720-4728	13.1	327
751	Mesoporous calcium oxide–silica and magnesium oxide–silica composites for CO2 capture at ambient and elevated temperatures. *Journal of Materials Chemistry A*, **2016**, 4, 10914-10924	13	32
750	Amine-modified silica nanotubes and nanospheres: synthesis and CO2 sorption properties. *Environmental Science: Nano*, **2016**, 3, 806-817	7.1	16
749	Microwave-assisted single-surfactant templating synthesis of mesoporous zeolites. *RSC Advances*, **2016**, 6, 54956-54963	3.7	9
748	Developing microporosity in Kevlar® -derived carbon fibers by CO2 activation for CO2 adsorption. *Journal of CO2 Utilization*, **2016**, 16, 17-22	7.6	26
747	Triconstituent co-assembly synthesis of N,S-doped carbon–silica nanospheres with smooth and rough surfaces. *Journal of Materials Chemistry A*, **2016**, 4, 3721-3727	13	33
746	Surface activated carbon nitride nanosheets with optimized electro-optical properties for highly efficient photocatalytic hydrogen production. *Journal of Materials Chemistry A*, **2016**, 4, 2445-2452	13	105
745	Room-temperature catalytic oxidation of formaldehyde on catalysts. *Catalysis Science and Technology*, **2016**, 6, 3649-3669	5.5	153
744	Yolk-Shell-Structured Aluminum Phenylphosphonate Microspheres with Anionic Core and Cationic Shell. *Advanced Science*, **2016**, 3, 1500363	13.6	19
743	Aqueous synthesis of bimodal mesoporous carbons and carbon-silica mesostructures under basic conditions. *Microporous and Mesoporous Materials*, **2016**, 226, 299-308	5.3	9
742	A synthetic strategy for carbon nanospheres impregnated with highly monodispersed metal nanoparticles. *NPG Asia Materials*, **2016**, 8, e240-e240	10.3	60
741	Preparation and adsorption properties of aerocellulose-derived activated carbon monoliths. *Cellulose*, **2016**, 23, 1363-1374	5.5	26
740	Amidoxime-functionalized microcrystalline cellulose–mesoporous silica composites for carbon dioxide sorption at elevated temperatures. *Journal of Materials Chemistry A*, **2016**, 4, 4808-4819	13	29
739	Hierarchical photocatalysts. *Chemical Society Reviews*, **2016**, 45, 2603-36	58.5	1216
738	Carbon-based two-dimensional layered materials for photocatalytic CO 2 reduction to solar fuels. *Energy Storage Materials*, **2016**, 3, 24-35	19.4	146

737	Equilibrium isotherms and isosteric heat for CO2 adsorption on nanoporous carbons from polymers. *Adsorption*, **2016**, 22, 581-588	2.6	19
736	Development of mesoporous magnesium oxide□lumina composites for CO2 capture. *Journal of CO2 Utilization*, **2016**, 13, 114-118	7.6	22
735	Enhanced formaldehyde oxidation on CeO 2 /AlOOH-supported Pt catalyst at room temperature. *Applied Catalysis B: Environmental*, **2016**, 199, 458-465	21.8	105
734	Significant Enhancement of Water Splitting Activity of N-Carbon Electrocatalyst by Trace Level Co Doping. *Small*, **2016**, 12, 3703-11	11	93
733	Block Copolymer Templating as a Path to Porous Nanostructured Carbons with Highly Accessible Nitrogens for Enhanced (Electro)chemical Performance **2016**, 1-19		
732	Revisiting the St□er method: Design of nitrogen-doped porous carbon spheres from molecular precursors of different chemical structures. *Journal of Colloid and Interface Science*, **2016**, 476, 55-61	9.3	28
731	Mesoporous Alumina with Amidoxime Groups for CO2 Sorption at Ambient and Elevated Temperatures. *Industrial & Engineering Chemistry Research*, **2016**, 55, 5598-5607	3.9	20
730	Polymer-templated mesoporous hybrid oxides of Al and Cu: highly porous sorbents for ammonia. *RSC Advances*, **2016**, 6, 38662-38670	3.7	1
729	Synthesis of Porous Crystalline Doped Titania Photocatalysts Using Modified Precursor Strategy. *Chemistry of Materials*, **2016**, 28, 7878-7888	9.6	20
728	Ordered mesoporous carbon-titania composites and their enhanced photocatalytic properties. *Journal of Colloid and Interface Science*, **2015**, 449, 297-303	9.3	13
727	Template-free synthesis of hierarchical □Al2O3 nanostructures and their adsorption affinity toward phenol and CO2. *RSC Advances*, **2015**, 5, 7066-7073	3.7	25
726	Polymeric photocatalysts based on graphitic carbon nitride. *Advanced Materials*, **2015**, 27, 2150-76	24	2367
725	Scaffold-assisted synthesis of crystalline mesoporous titania materials. *RSC Advances*, **2015**, 5, 61960-61972	3.7	5
724	Heteroatom-Doped Graphene-Based Materials for Energy-Relevant Electrocatalytic Processes. *ACS Catalysis*, **2015**, 5, 5207-5234	13.1	675
723	Dual-dehydrogenation-promoted catalytic oxidation of formaldehyde on alkali-treated Pt clusters at room temperature. *Journal of Materials Chemistry A*, **2015**, 3, 10432-10438	13	38
722	Molecular-based design and emerging applications of nanoporous carbon spheres. *Nature Materials* , **2015**, 14, 763-74	27	712
721	Effect of activating agents on the development of microporosity in polymeric-based carbon for CO2 adsorption. *Carbon*, **2015**, 94, 673-679	10.4	64
720	Biocompatible D-Penicillamine Conjugated Au Nanoparticles: Targeting Intracellular Free Copper Ions for Detoxification. *Journal of Materials Chemistry B*, **2015**, 3, 5553-5559	7.3	8

719	Synthesis of mesoporous silica-tethered phosphonic acid sorbents for uranium species from aqueous solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 482, 1-8	5.1	37
718	CO2 adsorption on amine-functionalized periodic mesoporous benzenesilicas. *ACS Applied Materials & Interfaces*, **2015**, 7, 6792-802	9.5	78
717	Amidoxime-modified mesoporous silica for uranium adsorption under seawater conditions. *Journal of Materials Chemistry A*, **2015**, 3, 11650-11659	13	137
716	Adsorption Properties of Activated Carbons Prepared from Waste CDs and DVDs. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 733-742	8.3	52
715	Highly active mesoporous ferrihydrite supported pt catalyst for formaldehyde removal at room temperature. *Environmental Science & Technology*, **2015**, 49, 6637-44	10.3	143
714	Solution combustion synthesis of metal oxide nanomaterials for energy storage and conversion. *Nanoscale*, **2015**, 7, 17590-610	7.7	259
713	Adsorption of Lead Ions from Aqueous Phase on Mesoporous Silica with P-Containing Pendant Groups. *ACS Applied Materials & Interfaces*, **2015**, 7, 23144-52	9.5	42
712	Ionic liquid-assisted synthesis of N/S-double doped graphene microwires for oxygen evolution and Zn–air batteries. *Energy Storage Materials*, **2015**, 1, 17-24	19.4	59
711	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
710	Mesoporous alumina–zirconia–organosilica composites for CO2 capture at ambient and elevated temperatures. *Journal of Materials Chemistry A*, **2015**, 3, 2707-2716	13	20
709	Potassium salt-assisted synthesis of highly microporous carbon spheres for CO2 adsorption. *Carbon* , **2015**, 82, 297-303	10.4	105
708	Semiconductor-based photocatalytic CO2 conversion. *Materials Horizons*, **2015**, 2, 261-278	14.4	302
707	Advancing the electrochemistry of the hydrogen-evolution reaction through combining experiment and theory. *Angewandte Chemie - International Edition*, **2015**, 54, 52-65	16.4	1282
706	Catalytic activity of CeIVO2/Ce2IIIO3-silica mesoporous composite materials for oxidation and esterification reactions. *Chemical Engineering Journal*, **2015**, 262, 1116-1125	14.7	17
705	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
704	Benzene and Methane Adsorption on Ultrahigh Surface Area Carbons Prepared from Sulphonated Styrene Divinylbenzene Resin by KOH Activation. *Adsorption Science and Technology*, **2015**, 33, 587-594	3.6	21
703	Nitrogen-Doped Carbon Electrocatalysts Decorated with Transition Metals for the Oxygen Reduction Reaction. *ChemCatChem*, **2015**, 7, 3808-3817	5.2	59
702	Soft-Templating Synthesis of N-Doped Mesoporous Carbon Nanospheres for Enhanced Oxygen Reduction Reaction. *Chemistry - an Asian Journal*, **2015**, 10, 1546-53	4.5	52

701	TiO2Photocatalytic Materials 2014. *International Journal of Photoenergy*, **2015**, 2015, 1-2	2.1	
700	Porous C3N4 nanolayers@N-graphene films as catalyst electrodes for highly efficient hydrogen evolution. *ACS Nano*, **2015**, 9, 931-40	16.7	569
699	Elektrochemie der Wasserstoffentwicklungsreaktion: Optimierung durch Korrelation von Experiment und Theorie. *Angewandte Chemie*, **2015**, 127, 52-66	3.6	137
698	Design of electrocatalysts for oxygen- and hydrogen-involving energy conversion reactions. *Chemical Society Reviews*, **2015**, 44, 2060-86	58.5	3275
697	Selective ion exchange governed by the Irving-Williams series in K2Zn3[Fe(CN)6]2 nanoparticles: toward a designer prodrug for Wilson's disease. *Inorganic Chemistry*, **2015**, 54, 1212-4	5.1	24
696	High-performance sodium ion batteries based on a 3D anode from nitrogen-doped graphene foams. *Advanced Materials*, **2015**, 27, 2042-8	24	695
695	Phosphorus-Doped Graphitic Carbon Nitrides Grown In Situ on Carbon-Fiber Paper: Flexible and Reversible Oxygen Electrodes. *Angewandte Chemie*, **2015**, 127, 4729-4733	3.6	87
694	Tailoring microporosity and nitrogen content in carbons for achieving high uptake of CO2 at ambient conditions. *Adsorption*, **2014**, 20, 287-293	2.6	30
693	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
692	Hydrogen evolution by a metal-free electrocatalyst. *Nature Communications*, **2014**, 5, 3783	17.4	1572
691	Mesoporous MnCo2O4 with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. *Journal of Materials Chemistry A*, **2014**, 2, 8676-8682	13	196
690	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO2 Adsorption. *Chemistry of Materials*, **2014**, 26, 2820-2828	9.6	480
689	Microporosity development in phenolic resin-based mesoporous carbons for enhancing CO2 adsorption at ambient conditions. *Applied Surface Science*, **2014**, 289, 592-600	6.7	27
688	Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. *Chemical Society Reviews*, **2014**, 43, 7787-812	58.5	1751
687	Synthesis of amino-functionalized mesoporous alumina with enhanced affinity towards Cr(VI) and CO2. *Chemical Engineering Journal*, **2014**, 239, 207-215	14.7	110
686	Development of mesoporosity in carbon spheres obtained by St□ber method. *Microporous and Mesoporous Materials*, **2014**, 185, 197-203	5.3	17
685	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
684	Highly microporous polymer-based carbons for CO2 and H2 adsorption. *RSC Advances*, **2014**, 4, 14795	3.7	22

683	A Highly Efficient and Extremely Selective Intracellular Copper Detoxifying Agent Based on Nanoparticles of ZnMoS. *Journal of Materials Chemistry B*, **2014**, 2, 257-261	7.3	7
682	Facile synthesis of polymer and carbon spheres decorated with highly dispersed metal nanoparticles. *Chemical Communications*, **2014**, 50, 12341-3	5.8	16
681	Force field for ZIF-8 flexible frameworks: atomistic simulation of adsorption, diffusion of pure gases as CH4, H2, CO2 and N2. *RSC Advances*, **2014**, 4, 16503-16511	3.7	47
680	Microemulsion-assisted synthesis of mesoporous aluminum oxyhydroxide nanoflakes for efficient removal of gaseous formaldehyde. *ACS Applied Materials & Interfaces*, **2014**, 6, 2111-7	9.5	69
679	Mn-Doped Ordered Mesoporous Ceria–Silica Composites and Their Catalytic Properties toward Biofuel Production. *Journal of Physical Chemistry C*, **2014**, 118, 15892-15901	3.8	23
678	Synthesis of highly active and stable spinel-type oxygen evolution electrocatalysts by a rapid inorganic self-templating method. *Chemistry - A European Journal*, **2014**, 20, 12669-76	4.8	38
677	Saran-Derived Carbons for CO2and Benzene Sorption at Ambient Conditions. *Industrial & Engineering Chemistry Research*, **2014**, 53, 15383-15388	3.9	12
676	Microwave-assisted and conventional hydrothermal synthesis of ordered mesoporous silicas with P-containing functionalities. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 459, 4-10	5.1	18
675	All-solid-state Z-scheme photocatalytic systems. *Advanced Materials*, **2014**, 26, 4920-35	24	1654
674	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
673	Enhanced photocatalytic CO2 reduction activity of anatase TiO2 by coexposed {001} and {101} facets. *Journal of the American Chemical Society*, **2014**, 136, 8839-42	16.4	1449
672	Toward design of synergistically active carbon-based catalysts for electrocatalytic hydrogen evolution. *ACS Nano*, **2014**, 8, 5290-6	16.7	802
671	Mesoporous organosilica with amidoxime groups for CO2 sorption. *ACS Applied Materials & Interfaces*, **2014**, 6, 13069-78	9.5	36
670	Deactivation and regeneration of Pt/TiO2 nanosheet-type catalysts with exposed (001) facets for room temperature oxidation of formaldehyde. *Journal of Molecular Catalysis A*, **2014**, 390, 7-13		60
669	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
668	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
667	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
666	Preparation of porous nanocarbons with tunable morphology and pore size from copolymer templated precursors. *Materials Horizons*, **2014**, 1, 121-124	14.4	27

665	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
664	Microwave-assisted synthesis of porous carbon-titania and highly crystalline titania nanostructures. *ACS Applied Materials & Interfaces*, **2013**, 5, 1948-54	9.5	17
663	Coconut shell-based microporous carbons for CO2 capture. *Microporous and Mesoporous Materials*, **2013**, 180, 280-283	5.3	115
662	Two-Step Boron and Nitrogen Doping in Graphene for Enhanced Synergistic Catalysis. *Angewandte Chemie*, **2013**, 125, 3192-3198	3.6	332
661	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
660	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
659	Toward tunable adsorption properties, structure, and crystallinity of titania obtained by block copolymer and scaffold-assisted templating. *Langmuir*, **2013**, 29, 12549-59	4	19
658	AlSb thin films as negative electrodes for Li-ion and Na-ion batteries. *Journal of Power Sources*, **2013**, 243, 699-705	8.9	82
657	Structural Stability of Si□C Bonds in Periodic Mesoporous Thiophene-Silicas Prepared under Acidic Conditions. *Journal of Physical Chemistry C*, **2013**, 117, 21441-21449	3.8	7
656	Surfactant-assisted synthesis of mesoporous silica/ceria□silica composites with high cerium content under basic conditions. *Journal of Materials Chemistry A*, **2013**, 1, 12595	13	24
655	Phenolic resin-based carbons with ultra-large mesopores prepared in the presence of poly(ethylene oxide)□poly(butylene oxide)□poly(ethylene oxide) triblock copolymer and trimethyl benzene. *Carbon*, **2013**, 51, 45-51	10.4	35
654	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
653	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
652	Hierarchically porous graphene-based hybrid electrodes with excellent electrochemical performance. *Journal of Materials Chemistry A*, **2013**, 1, 9409	13	61
651	Development of microporous carbons for CO2 capture by KOH activation of African palm shells. *Journal of CO2 Utilization*, **2013**, 2, 35-38	7.6	92
650	Colloidal templating synthesis and adsorption characteristics of microporous□mesoporous carbons from Kraft lignin. *Carbon*, **2013**, 62, 233-239	10.4	39
649	Two-step boron and nitrogen doping in graphene for enhanced synergistic catalysis. *Angewandte Chemie - International Edition*, **2013**, 52, 3110-6	16.4	776
648	Enhanced performance of NaOH-modified Pt/TiO2 toward room temperature selective oxidation of formaldehyde. *Environmental Science & Technology*, **2013**, 47, 2777-83	10.3	309

647	Activated carbon spheres for CO2 adsorption. *ACS Applied Materials & Interfaces*, **2013**, 5, 1849-55	9.5	339
646	Organic acid-assisted soft-templating synthesis of ordered mesoporous carbons. *Adsorption*, **2013**, 19, 563-569	2.6	13
645	Graphitic Mesoporous Carbons with Embedded Prussian Blue-Derived Iron Oxide Nanoparticles Synthesized by Soft Templating and Low-Temperature Graphitization. *Chemistry of Materials*, **2013**, 25, 2803-2811	9.6	59
644	Cysteine-assisted tailoring of adsorption properties and particle size of polymer and carbon spheres. *Langmuir*, **2013**, 29, 4032-8	4	43
643	Mesoporous isocyanurate-containing organosilica□lumina composites and their thermal treatment in nitrogen for carbon dioxide sorption at elevated temperatures. *Journal of Materials Chemistry A*, **2013**, 1, 8244	13	18
642	Enhanced and suppressed effects of ionic liquid on the photocatalytic activity of TiO2. *Adsorption*, **2013**, 19, 557-561	2.6	45
641	Post-synthesis surface-modified silicas as adsorbents for heavy metal ion contaminants Cd(II), Cu(II), Cr(III), and Sr(II) in aqueous solutions. *Journal of Colloid and Interface Science*, **2013**, 392, 57-64	9.3	26
640	Enhancement of CO2 adsorption on phenolic resin-based mesoporous carbons by KOH activation. *Carbon*, **2013**, 65, 334-340	10.4	109
639	Standard nitrogen adsorption data for □alumina and their use for characterization of mesoporous alumina-based materials. *Adsorption*, **2013**, 19, 475-481	2.6	11
638	Hierarchically macro-mesoporous Pt/□Al2O3 composite microspheres for efficient formaldehyde oxidation at room temperature. *Scientific Reports*, **2013**, 3, 3215	4.9	107
637	TiO2Photocatalytic Materials 2013. *International Journal of Photoenergy*, **2013**, 2013, 1-2	2.1	2
636	Estimating Pore-Size Distributions of Moderately Hydrophobic Mesoporous Solids. *Adsorption Science and Technology*, **2013**, 31, 153-164	3.6	2
635	Three-Dimensional N-Doped Graphene Hydrogel/NiCo Double Hydroxide Electrocatalysts for Highly Efficient Oxygen Evolution. *Angewandte Chemie*, **2013**, 125, 13812-13815	3.6	62
634	Effect of cosolvent organic molecules on the adsorption and structural properties of soft-templated ordered mesoporous alumina. *Journal of Colloid and Interface Science*, **2012**, 367, 129-34	9.3	13
633	Soft-templating synthesis of ordered mesoporous carbons in the presence of tetraethyl orthosilicate and silver salt. *Microporous and Mesoporous Materials*, **2012**, 156, 121-126	5.3	16
632	Effect of acid concentration on pore size in polymer-templated mesoporous alumina. *Journal of Materials Chemistry*, **2012**, 22, 86-92		43
631	Graphitic carbon nitride materials: controllable synthesis and applications in fuel cells and photocatalysis. *Energy and Environmental Science*, **2012**, 5, 6717	35.4	1385
630	Poly(ethylene oxide)-poly(butylene oxide)-poly(ethylene oxide)-templated synthesis of mesoporous alumina: effect of triblock copolymer and acid concentration. *ACS Applied Materials & Interfaces*, **2012**, 4, 3738-44	9.5	15

629	Sulfur and Nitrogen Dual-Doped Mesoporous Graphene Electrocatalyst for Oxygen Reduction with Synergistically Enhanced Performance. *Angewandte Chemie*, **2012**, 124, 11664-11668	3.6	234
628	R□ktitelbild: Sulfur and Nitrogen Dual-Doped Mesoporous Graphene Electrocatalyst for Oxygen Reduction with Synergistically Enhanced Performance (Angew. Chem. 46/2012). *Angewandte Chemie*, **2012**, 124, 11808-11808	3.6	6
627	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
626	Benzene-Silica with Hexagonal and Cubic Ordered Mesostructures Synthesized in the Presence of Block Copolymers and Weak Acid Catalysts. *Journal of Physical Chemistry C*, **2012**, 116, 16023-16029	3.8	11
625	Adsorption and structural properties of ordered mesoporous carbons synthesized by soft-templating in the presence of boric acid and tetraethyl orthosilicate. *RSC Advances*, **2012**, 2, 1877	3.7	14
624	Synthesis, Characterization, Properties, and Applications of Nanosized Photocatalytic Materials. *Journal of Nanomaterials*, **2012**, 2012, 1-3	3.2	11
623	New opportunities in St□ber synthesis: preparation of microporous and mesoporous carbon spheres. *Journal of Materials Chemistry*, **2012**, 22, 12636		102
622	Polymer-templated mesoporous carbons synthesized in the presence of nickel nanoparticles, nickel oxide nanoparticles, and nickel nitrate. *Applied Surface Science*, **2012**, 258, 3763-3770	6.7	19
621	Nanostructured metal-free electrochemical catalysts for highly efficient oxygen reduction. *Small*, **2012**, 8, 3550-66	11	518
620	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
619	Noble metal-free reduced graphene oxide-ZnxCd□kS nanocomposite with enhanced solar photocatalytic H□production performance. *Nano Letters*, **2012**, 12, 4584-9	11.5	777
618	Deposition of silver nanoparticles on silica spheres and rods. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 411, 74-79	5.1	15
617	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
616	Carbon-gold core-shell structures: formation of shells consisting of gold nanoparticles. *Chemical Communications*, **2012**, 48, 3972-4	5.8	23
615	Silica-metal core-shell nanostructures. *Advances in Colloid and Interface Science*, **2012**, 170, 28-47	14.3	181
614	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
613	Block Copolymer Templating as a Path to Porous Nanostructured Carbons with Highly Accessible Nitrogens for Enhanced (Electro)chemical Performance. *Macromolecular Chemistry and Physics*, **2012**, 213, 1078-1090	2.6	66
612	Graphene-based semiconductor photocatalysts. *Chemical Society Reviews*, **2012**, 41, 782-96	58.5	2274

611	Facile Oxygen Reduction on a Three-Dimensionally Ordered Macroporous Graphitic C3N4/Carbon Composite Electrocatalyst. *Angewandte Chemie*, **2012**, 124, 3958-3962	3.6	146
610	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
609	Fluorinated semiconductor photocatalysts: tunable synthesis and unique properties. *Advances in Colloid and Interface Science*, **2012**, 173, 35-53	14.3	142
608	Synthesis of rod-like silica□gold core-shell structures. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 393, 37-41	5.1	11
607	Photocatalytic Materials. *International Journal of Photoenergy*, **2012**, 2012, 1-5	2.1	10
606	Chemically Modified Mesoporous Silicas and Organosilicas for Adsorption and Detection of Heavy Metal Ions **2012**, 227-260		
605	Introduction of bridging and pendant organic groups into mesoporous alumina materials. *ACS Applied Materials & Interfaces*, **2011**, 3, 4480-6	9.5	6
604	Novel Nanoporous Carbons from Well-Defined Poly(styrene-co-acrylonitrile)-Grafted Silica Nanoparticles. *Chemistry of Materials*, **2011**, 23, 2024-2026	9.6	44
603	Rugby-like anatase titania hollow nanoparticles with enhanced photocatalytic activity. *CrystEngComm*, **2011**, 13, 7044	3.3	41
602	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
601	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
600	Ni(OH)2 modified CdS nanorods for highly efficient visible-light-driven photocatalytic H2 generation. *Green Chemistry*, **2011**, 13, 2708	10	327
599	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
598	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
597	Nanoporous Polystyrene and Carbon Materials with Core□Shell Nanosphere-Interconnected Network Structure. *Macromolecules*, **2011**, 44, 5846-5849	5.5	75
596	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
595	Enhanced photocatalytic H□production activity of graphene-modified titania nanosheets. *Nanoscale*, **2011**, 3, 3670-8	7.7	678
594	A new approach to synthesis of periodic mesoporous organosilicas: taking advantage of self-assembly and reactivity of organic precursors. *Journal of Materials Chemistry*, **2011**, 21, 6389		15

593	Periodic Mesoporous Benzene‐Silicas Prepared Using Boric Acid as Catalyst. *Chemistry of Materials*, **2011**, 23, 1971-1976	9.6	27
592	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
591	Optimization of mesoporous carbon structures for lithium‐sulfur battery applications. *Journal of Materials Chemistry*, **2011**, 21, 16603		382
590	Anatase TiO2 with Dominant High-Energy {001} Facets: Synthesis, Properties, and Applications. *Chemistry of Materials*, **2011**, 23, 4085-4093	9.6	615
589	Adsorption Properties of Micro-/Meso-Porous Carbons Obtained by Colloidal Templating and Post-Synthesis KOH Activation. *Adsorption Science and Technology*, **2011**, 29, 457-465	3.6	2
588	Adsorption and structural properties of ordered mesoporous alumina synthesized in the presence of F127 block copolymer. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 385, 121-125	5.1	30
587	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
586	Effect of nonionic structure-directing agents on adsorption and structural properties of mesoporous alumina. *Journal of Materials Chemistry*, **2011**, 21, 9066		42
585	Soft-templating synthesis and adsorption properties of mesoporous carbons with embedded silver nanoparticles. *Adsorption*, **2011**, 17, 461-466	2.6	12
584	Tunable photocatalytic selectivity of TiO2 films consisted of flower-like microspheres with exposed {001} facets. *Chemical Communications*, **2011**, 47, 4532-4	5.8	237
583	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
582	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
581	Preparation and properties of silica‐gold core‐shell particles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 373, 167-171	5.1	44
580	Photocatalytic hydrogen production over CuO-modified titania. *Journal of Colloid and Interface Science*, **2011**, 357, 223-8	9.3	247
579	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
578	Hydrothermal Synthesis and Surface Characteristics of Novel Alpha Alumina Nanosheets with Controlled Chemical Composition. *Chemistry of Materials*, **2010**, 22, 6564-6574	9.6	29
577	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
576	Synthesis of mesoporous alumina from boehmite in the presence of triblock copolymer. *ACS Applied Materials & Interfaces*, **2010**, 2, 588-93	9.5	72

575	SBA-15-Supported Mixed-Metal Oxides: Partial Hydrolytic Sol□el Synthesis, Adsorption, and Structural Properties. *ACS Applied Materials & Interfaces*, **2010**, 2, 134-142	9.5	20
574	Multifunctional periodic mesoporous organosilicas with bridging groups formed via dynamic covalent chemistry. *Chemical Communications*, **2010**, 46, 4568-70	5.8	20
573	Tailoring Adsorption and Framework Properties of Mesoporous Polymeric Composites and Carbons by Addition of Organosilanes during Soft-Templating Synthesis. *Journal of Physical Chemistry C*, **2010**, 114, 6298-6303	3.8	25
572	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
571	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
570	Template-free synthesis of hierarchical spindle-like □Al2O3 materials and their adsorption affinity towards organic and inorganic pollutants in water. *Journal of Materials Chemistry*, **2010**, 20, 4587		215
569	Mesoporous metal organic framework-boehmite and silica composites. *Chemical Communications*, **2010**, 46, 6798-800	5.8	65
568	Ordered mesoporous carbon/□alumina nanosheet composites. *Nanoscale*, **2010**, 2, 2868-72	7.7	7
567	Adsorption properties of phenolic resin-based mesoporous carbons obtained by using mixed templates of Pluronic F127 and Brij 58 or Brij 78 polymers. *Adsorption*, **2010**, 16, 377-383	2.6	11
566	Adsorption properties of ordered mesoporous silicas synthesized in the presence of block copolymer Pluronic F127 under microwave irradiation. *Adsorption*, **2010**, 16, 385-396	2.6	7
565	Development of Microporosity in Mesoporous Carbons. *Topics in Catalysis*, **2010**, 53, 283-290	2.3	16
564	Adsorption and structural properties of soft-templated mesoporous carbons obtained by carbonization at different temperatures and KOH activation. *Applied Surface Science*, **2010**, 256, 5187-5190	6.7	36
563	Further advancements in predicting adsorption equilibria using excess formalism: calculation of adsorption excesses at the liquid/solid interface. *Journal of Colloid and Interface Science*, **2010**, 352, 504-11	3.3	1
562	Soft-templating synthesis and properties of mesoporous alumina□titania. *Microporous and Mesoporous Materials*, **2010**, 128, 180-186	5.3	41
561	Studies of intrawall porosity in the hexagonally ordered mesostructures of SBA-15 by small angle X-ray scattering and nitrogen adsorption. *Applied Surface Science*, **2010**, 256, 5311-5315	6.7	18
560	Polymer-templated mesoporous carbons with nickel nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2010**, 362, 20-27	5.1	12
559	Mesoporous Carbon Materials with Ultra-Thin Pore Walls and Highly Dispersed Nickel Nanoparticles. *European Journal of Inorganic Chemistry*, **2009**, 2009, 605-612	2.3	21
558	Silicon beyond the valley. *Nature Chemistry*, **2009**, 1, 166	17.6	11

557	Microwave-assisted synthesis of periodic mesoporous organosilicas with ethane and disulfide groups. *Microporous and Mesoporous Materials*, **2009**, 119, 144-149	5.3	31
556	Preparation of mesoporous benzene□silica nanoparticles. *Microporous and Mesoporous Materials*, **2009**, 120, 252-256	5.3	20
555	Cage-like ordered mesoporous organosilicas with isocyanurate bridging groups: Synthesis, template removal and structural properties. *Microporous and Mesoporous Materials*, **2009**, 118, 68-77	5.3	19
554	Cage-like mesoporous organosilicas with isocyanurate bridging groups synthesized by soft templating with poly(ethylene oxide)-poly(butylene oxide)-poly(ethylene oxide) block copolymer. *Journal of Colloid and Interface Science*, **2009**, 333, 354-62	9.3	12
553	Influence of temperature, carbon precursor/copolymer ratio and acid concentration on adsorption and structural properties of mesoporous carbons prepared by soft-templating. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 352, 113-117	5.1	32
552	Synthesis and properties of mesoporous carbons with high loadings of inorganic species. *Carbon*, **2009**, 47, 3034-3040	10.4	40
551	Bifunctional periodic mesoporous organosilicas with thiophene and isocyanurate bridging groups. *Langmuir*, **2009**, 25, 13258-63	4	25
550	Nanocasting Synthesis of Iron-Doped Mesoporous Al□i Mixed Oxides Using Ordered Mesoporous Carbon Templates. *Journal of Physical Chemistry C*, **2009**, 113, 13565-13573	3.8	11
549	Three-dimensional cubic (Im3m) periodic mesoporous organosilicas with benzene- and thiophene-bridging groups. *Journal of Materials Chemistry*, **2009**, 19, 2076		42
548	Periodic Mesoporous Benzene- and Thiophene-Silicas Prepared Using Aluminum Chloride as an Acid Catalyst: Effect of Aluminum Salt/Organosilane Ratio and Stirring Time. *Journal of Physical Chemistry C*, **2009**, 113, 5111-5119	3.8	12
547	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
546	Synthesis and Properties of Ordered Mesoporous Organosilicas with Vinyl and Mercaptopropyl Surface Groups: The Effect of Ligand Concentration on Pore Structure. *Journal of Physical Chemistry C*, **2009**, 113, 4875-4884	3.8	17
545	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
544	Polypyrrole-Based Nitrogen-Doped Carbon Replicas of SBA-15 and SBA-16 Containing Magnetic Nanoparticles. *Journal of Physical Chemistry C*, **2008**, 112, 13126-13133	3.8	63
543	Ordered mesoporous alumina-supported metal oxides. *Journal of the American Chemical Society*, **2008**, 130, 15210-6	16.4	314
542	Monodisperse Particles of Bifunctional Periodic Mesoporous Organosilica. *Journal of Physical Chemistry C*, **2008**, 112, 4897-4902	3.8	35
541	Colloidal Silica Templating Synthesis of Carbonaceous Monoliths Assuring Formation of Uniform Spherical Mesopores and Incorporation of Inorganic Nanoparticles□*Chemistry of Materials*, **2008**, 20, 1069-1075	9.6	49
540	High temperature treatment of ordered mesoporous carbons prepared by using various carbon precursors and ordered mesoporous silica templates. *New Journal of Chemistry*, **2008**, 32, 981	3.6	74

539	Role of Aluminum Salts in the Synthesis of Polymer-Templated Periodic Mesoporous Organosilicas. *Chemistry of Materials*, **2008**, 20, 2468-2475	9.6	12
538	Incorporation of Inorganic Nanoparticles into Mesoporous Carbons Synthesized by Soft Templating. *Journal of Physical Chemistry C*, **2008**, 112, 11657-11660	3.8	47
537	Grafting Monodisperse Polymer Chains from Concave Surfaces of Ordered Mesoporous Silicas. *Macromolecules*, **2008**, 41, 8584-8591	5.5	121
536	Hard vs. Soft Templating Synthesis of Mesoporous Nb2O5 Catalysts for Oxidation Reactions. *Topics in Catalysis*, **2008**, 49, 193-203	2.3	16
535	Nanoporous Carbon Films from Hairy Polyacrylonitrile-Grafted Colloidal Silica Nanoparticles. *Advanced Materials*, **2008**, 20, 1516-1522	24	73
534	Mesoporous carbons synthesized by soft-templating method: Determination of pore size distribution from argon and nitrogen adsorption isotherms. *Microporous and Mesoporous Materials*, **2008**, 112, 573-579	5.3	33
533	KOH activation of mesoporous carbons obtained by soft-templating. *Carbon*, **2008**, 46, 1159-1161	10.4	152
532	Argon adsorption in channel-like mesoporous carbons at 77K: Grand Canonical Monte Carlo simulations and pore size analysis. *Microporous and Mesoporous Materials*, **2008**, 116, 665-669	5.3	6
531	Supercritical Fluid Growth of Porous Carbon Nanocages. *Chemistry of Materials*, **2007**, 19, 3349-3354	9.6	39
530	Polymer-Templated Mesoporous Organosilicas with Two Types of Multifunctional Organic Groups. *Industrial & Engineering Chemistry Research*, **2007**, 46, 1745-1751	3.9	37
529	Adsorption studies of thermal stability of SBA-16 mesoporous silicas. *Applied Surface Science*, **2007**, 253, 5660-5665	6.7	52
528	Assessment of pore structure parameters for polymer-templated mesoporous molecular sieves by means of nitrogen and argon adsorption. *Applied Surface Science*, **2007**, 253, 5676-5681	6.7	2
527	Comparative studies of p6m siliceous mesostructures by powder X-ray diffraction and nitrogen adsorption. *Applied Surface Science*, **2007**, 253, 5682-5687	6.7	19
526	Applicability of classical methods of pore size analysis for MCM-41 and SBA-15 silicas. *Applied Surface Science*, **2007**, 253, 5587-5590	6.7	10
525	Effect of organosilane/polymer ratio on adsorption properties of periodic mesoporous ethane-silica. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 300, 235-244	5.1	20
524	Electron microscopy and nitrogen adsorption studies of film-type carbon replicas with large pore volume synthesized by using colloidal silica and SBA-15 as templates. *Carbon*, **2007**, 45, 2171-2177	10.4	22
523	Partially graphitic, high-surface-area mesoporous carbons from polyacrylonitrile templated by ordered and disordered mesoporous silicas. *Microporous and Mesoporous Materials*, **2007**, 102, 178-187	5.3	80
522	Bimodal pore size distributions for carbons: experimental results and computational studies. *Journal of Colloid and Interface Science*, **2007**, 310, 205-16	9.3	17

521	Polymer-templated organosilicas with hexagonally ordered mesopores: the effect of organosilane addition at different synthesis stages. *Adsorption*, **2007**, 13, 323-329	2.6	8
520	Large Pore Volume Carbons with Uniform Mesopores and Macropores: Synthesis, Characterization, and Relations between Adsorption Parameters of Silica Templates and their Inverse Carbon Replicas. *Journal of Physical Chemistry C*, **2007**, 111, 9742-9748	3.8	25
519	Tailoring cage-like organosilicas with multifunctional bridging and surface groups. *Studies in Surface Science and Catalysis*, **2007**, 165, 443-446	1.8	2
518	Three-dimensional large pore cubic niobosilicates: direct synthesis and characterization. *Studies in Surface Science and Catalysis*, **2007**, 165, 69-72	1.8	1
517	Adsorption Potential Distributions for Silicas and Organosilicas. *Adsorption Science and Technology*, **2007**, 25, 573-581	3.6	1
516	Effects of Hydrothermal Treatment and Template Removal on the Adsorption and Structural Properties of SBA-16 Mesoporous Silica. *Adsorption Science and Technology*, **2007**, 25, 439-449	3.6	8
515	Periodic mesoporous organosilicas with multiple bridging groups and spherical morphology. *Langmuir*, **2007**, 23, 11844-9	4	45
514	Chemically-Modified Mesoporous Silicas and Organosilicas for Adsorption and Detection of Heavy Metal Ions **2007**, 179-212		4
513	Two-dimensional solid state NMR characterization of physisorbed siloxane polymer (OV-225) on silica. *Surface Science*, **2006**, 600, 143-154	1.8	10
512	Assessment of ordered and complementary pore volumes in polymer-templated mesoporous silicas and organosilicas. *Chemical Communications*, **2006**, 2242-4	5.8	19
511	Effect of polymer-to-silica ratio on the formation of large three-dimensional cage-like mesostructures. *New Journal of Chemistry*, **2006**, 30, 1071	3.6	18
510	Adsorption and structural properties of mesoporous carbons obtained from mesophase pitch and phenol-formaldehyde carbon precursors using porous templates prepared from colloidal silica. *Journal of Materials Chemistry*, **2006**, 16, 2819		22
509	Hydrothermal stability of SBA-15 and related ordered mesoporous silicas with plugged pores. *Journal of Materials Chemistry*, **2006**, 16, 2824		74
508	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
507	Temperature-programmed microwave-assisted synthesis of SBA-15 ordered mesoporous silica. *Journal of the American Chemical Society*, **2006**, 128, 14408-14	16.4	127
506	Effective method for removal of polymeric template from SBA-16 silica combining extraction and temperature-controlled calcination. *Journal of Materials Chemistry*, **2006**, 16, 819-823		67
505	Well-Defined Poly(ethylene oxide)–Polyacrylonitrile Diblock Copolymers as Templates for Mesoporous Silicas and Precursors for Mesoporous Carbons. *Chemistry of Materials*, **2006**, 18, 1417-1424	9.6	54
504	Carbide-Derived Nanoporous Carbon and Novel Core–Shell Nanowires. *Chemistry of Materials*, **2006**, 18, 753-758	9.6	22

503	Periodic Mesoporous Organosilicas with Ethane and Large Isocyanurate Bridging Groups. *Chemistry of Materials*, **2006**, 18, 1722-1725	9.6	60
502	Features of nitrogen adsorption on nonporous carbon and silica surfaces in the framework of classical density functional theory. *Langmuir*, **2006**, 22, 6238-44	4	18
501	Periodic mesoporous organosilicas with Im3m symmetry and large isocyanurate bridging groups. *Journal of Physical Chemistry B*, **2006**, 110, 2972-5	3.4	44
500	DESIGN, SYNTHESIS AND CHARACTERIZATION OF ORDERED MESOPOROUS MATERIALS FOR ENVIRONMENTAL APPLICATIONS **2006**, 23-36		3
499	Improvement of the Kruk-Jaroniec-Sayari method for pore size analysis of ordered silicas with cylindrical mesopores. *Langmuir*, **2006**, 22, 6757-60	4	251
498	Grand Canonical Monte Carlo Simulation Study of Hydrogen Storage in Ordered Mesoporous Carbons at 303 K. *Adsorption Science and Technology*, **2006**, 24, 411-426	3.6	4
497	Ordered mesoporous silica SBA-15: a new effective adjuvant to induce antibody response. *Small*, **2006**, 2, 254-6	11	95
496	Co-condensation synthesis and adsorption properties of cage-like mesoporous silicas with imidazole groups. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 291, 139-147	5.1	18
495	Comparative thermogravimetric and adsorption study of highly ordered mesoporous materials. *Journal of Colloid and Interface Science*, **2006**, 296, 377-80	9.3	10
494	Adsorption and structural properties of channel-like and cage-like organosilicas. *Adsorption*, **2006**, 12, 293-308	2.6	29
493	Thermogravimetric studies of benzoylthiourea-modified MCM-41 after adsorption of mercury ions from aqueous solutions. *Analyst, The*, **2005**, 130, 104-8	5	7
492	Cage-like ordered silica with large mesopore volume synthesized by doubling amount of polymer, adding sodium chloride and lowering acid concentration. *Chemical Communications*, **2005**, 1076-8	5.8	27
491	Bifunctional periodic mesoporous organosilica with large heterocyclic bridging groups and mercaptopropyl ligands. *Journal of Materials Chemistry*, **2005**, 15, 1517		84
490	Three-dimensional cubic mesoporous molecular sieves of FDU-1 containing niobium: dependence of niobium source on structural properties. *Langmuir*, **2005**, 21, 755-60	4	14
489	Synthesis of FDU-1 silica with narrow pore size distribution and tailorable pore entrance size in the presence of sodium chloride. *Journal of Physical Chemistry B*, **2005**, 109, 3838-43	3.4	33
488	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
487	Adsorption and structural properties of ordered mesoporous carbons synthesized by using various carbon precursors and ordered siliceous P6mm and Ia3d mesostructures as templates. *Journal of Physical Chemistry B*, **2005**, 109, 23263-8	3.4	83
486	Improvement of the Derjaguin-Broekhoff-de Boer theory for the capillary condensation/evaporation of nitrogen in spherical cavities and its application for the pore size analysis of silicas with ordered cagelike mesopores. *Langmuir*, **2005**, 21, 10530-6	4	13

485	Characterization of mesoporous carbons synthesized with SBA-16 silica template. *Journal of Materials Chemistry*, **2005**, 15, 1560		146
484	Tailoring interfacial properties of periodic mesoporous organosilicas by incorporation of spacious heterocyclic and thiol groups and its implication for structural changes **2005**, 5929, 176		
483	Fabrication and Characterization of Mesostructured Silica, HUM-1, and Its Ordered Mesoporous Carbon Replica. *Industrial & Engineering Chemistry Research*, **2005**, 44, 4316-4322	3.9	13
482	Periodic mesoporous organosilica with large heterocyclic bridging groups. *Journal of the American Chemical Society*, **2005**, 127, 60-1	16.4	211
481	Improvement of the Derjaguin-Broekhoff-de Boer theory for capillary condensation/evaporation of nitrogen in mesoporous systems and its implications for pore size analysis of MCM-41 silicas and related materials. *Langmuir*, **2005**, 21, 1827-33	4	37
480	Tailoring properties of SBA-15 materials by controlling conditions of hydrothermal synthesis. *Journal of Materials Chemistry*, **2005**, 15, 5049		123
479	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
478	Influence of synthesis time on adsorption properties of FDU1 materials. *Studies in Surface Science and Catalysis*, **2005**, 156, 105-112	1.8	8
477	Synthesis and adsorption properties of periodic mesoporous organosilicas with large heterocyclic bridging groups. *Studies in Surface Science and Catalysis*, **2005**, 197-204	1.8	
476	Pitch-based carbons synthesized by using silica colloids and ordered mesoporous silica particles as templates. *Studies in Surface Science and Catalysis*, **2005**, 156, 581-588	1.8	1
475	Adsorption of argon and nitrogen in cylindrical pores of MCM-41 materials: application of density functional theory. *Applied Surface Science*, **2005**, 252, 1013-1028	6.7	16
474	Application of density functional theory to equilibrium adsorption of argon and nitrogen on amorphous silica surface. *Applied Surface Science*, **2005**, 252, 548-561	6.7	32
473	Adsorption characterization of surfactant-templated ordered mesoporous silicas synthesized with and without hydrothermal treatment. *Applied Surface Science*, **2005**, 252, 562-569	6.7	12
472	Modeling Nitrogen Adsorption in Spherical Pores of Siliceous Materials by Density Functional Theory. *Journal of Chemical Theory and Computation*, **2005**, 1, 653-61	6.4	9
471	Equilibrium adsorption in cylindrical mesopores: a modified Broekhoff and de Boer theory versus density functional theory. *Journal of Physical Chemistry B*, **2005**, 109, 1947-58	3.4	45
470	Short-time synthesis of SBA-15 using various silica sources. *Journal of Colloid and Interface Science*, **2005**, 287, 717-20	9.3	60
469	Ordered Mesoporous Silicas with 2,5-Dimercapto-1,3,4-Thiadiazole Ligand: High Capacity Adsorbents for Mercury Ions. *Adsorption*, **2005**, 11, 205-214	2.6	40
468	Adsorption Characterization of Ordered Mesoporous Silicas with Mercury-Specific Immobilized Ligands. *Adsorption*, **2005**, 11, 685-690	2.6	18

467	Comparison of Adsorption Properties of Polymer-Templated Mesoporous Silicas with Incorporated Niobium. *Adsorption*, **2005**, 11, 737-743	2.6	1
466	Adsorption Monitoring of Hydrothermal and Thermal Stability of Polymer-Templated Mesoporous Materials. *Adsorption*, **2005**, 11, 745-750	2.6	
465	Characterization of pore structure of copolymer-templated periodic mesoporous organosilicas. *Studies in Surface Science and Catalysis*, **2005**, 156, 673-682	1.8	1
464	Optimization of synthesis time for SBA-15 materials. *Studies in Surface Science and Catalysis*, **2005**, 156, 75-82	1.8	5
463	Optimization of silica/surfactant ratio in MCM-41 synthesis. *Studies in Surface Science and Catalysis*, **2005**, 156, 55-62	1.8	10
462	Synthesis and adsorption properties of FDU-1 silica with carbon deposited in mesopores. *Studies in Surface Science and Catalysis*, **2005**, 156, 489-496	1.8	
461	Benzene Adsorption Isotherms on MCM-41 and their Use for Pore Size Analysis. *Adsorption*, **2004**, 10, 195-203	2.6	12
460	Al-MCM-41 sorbents for bovine serum albumin: relation between Al content and performance. *Microporous and Mesoporous Materials*, **2004**, 75, 221-229	5.3	42
459	Ordered mesoporous silica: microwave synthesis. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2004**, 112, 106-110	3.1	40
458	Benzoylthiourea-modified MCM-48 mesoporous silica for mercury(II) adsorption from aqueous solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2004**, 236, 69-72	5.1	66
457	Argon and nitrogen adsorption studies of changes in connectivity of ordered cage-like large mesopores during the hydrothermal treatment. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2004**, 241, 27-34	5.1	15
456	Exceptionally High Stability of Copolymer-Templated Ordered Silica with Large Cage-Like Mesopores. *Chemistry of Materials*, **2004**, 16, 698-707	9.6	61
455	Synthesis and Characterization of Polymer-Templated Mesoporous Silicas Containing Niobium. *Journal of Physical Chemistry B*, **2004**, 108, 3722-3727	3.4	25
454	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
453	Mesoporous Carbons Synthesized by Imprinting Ordered and Disordered Porous Structures of Silica Particles in Mesophase Pitch. *Journal of Physical Chemistry B*, **2004**, 108, 824-826	3.4	72
452	Colloid-imprinted carbons as stationary phases for reversed-phase liquid chromatography. *Analytical Chemistry*, **2004**, 76, 5479-85	7.8	32
451	Novel pitch-based carbons with bimodal distribution of uniform mesopores. *Chemical Communications*, **2004**, 2576-7	5.8	25
450	Thermally induced structural changes in SBA-15 and MSU-H silicas and their implications for synthesis of ordered mesoporous carbons. *Studies in Surface Science and Catalysis*, **2003**, 49-52	1.8	3

449	Gas adsorption: A valuable tool for the pore size analysis and pore structure elucidation of ordered mesoporous materials. *Studies in Surface Science and Catalysis*, **2003**, 146, 263-269	1.8	8
448	An improved methodology for adsorption characterization of unmodified and modified silica gels. *Journal of Colloid and Interface Science*, **2003**, 266, 168-74	9.3	15
447	Assessment of reliability of the Horvath–Kawazoe pore size analysis method using argon adsorption isotherms on ordered mesoporous silicas. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2003**, 214, 263-269	5.1	21
446	Synthesis and Characterization of Hexagonally Ordered Carbon Nanopipes. *Chemistry of Materials*, **2003**, 15, 2815-2823	9.6	240
445	Benzoylthiourea-Modified Mesoporous Silica for Mercury(II) Removal. *Langmuir*, **2003**, 19, 3031-3034	4	153
444	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
443	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
442	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
441	Surface Modifications of Cage-like and Channel-like Mesopores and Their Implications for Evaluation of Sizes of Entrances to Cage-like Mesopores. *Journal of Physical Chemistry B*, **2003**, 107, 11900-11906	3.4	37
440	Synthesis and Adsorption Properties of Colloid-Imprinted Carbons with Surface and Volume Mesoporosity. *Chemistry of Materials*, **2003**, 15, 1327-1333	9.6	71
439	Novel route to periodic mesoporous aminosilicas, PMAs: ammonolysis of periodic mesoporous organosilicas. *Journal of the American Chemical Society*, **2003**, 125, 11662-73	16.4	57
438	Argon and nitrogen adsorption on ordered silicas with channel-like and cage-like mesopores: implications for characterization of porous solids. *Studies in Surface Science and Catalysis*, **2003**, 146, 343-346	1.8	2
437	Comparison of adsorption properties of MCM-41 materials obtained using cationic surfactants with octyl chain. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2002**, 203, 97-103	5.1	9
436	Critical appraisal of classical methods for determination of mesopore size distributions of MCM-41 materials. *Applied Surface Science*, **2002**, 196, 216-223	6.7	68
435	Thermogravimetric estimation of adsorption properties of europium-incorporated MCM-41 materials. *Thermochimica Acta*, **2002**, 383, 79-85	2.9	9
434	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
433	The use of ordered mesoporous materials for improving the mesopore size analysis: Current state and future. *Studies in Surface Science and Catalysis*, **2002**, 437-444	1.8	5
432	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	1.8	14

431	Recent developments in the synthesis and chemistry of periodic mesoporous organosilicas. *Studies in Surface Science and Catalysis*, **2002**, 1-26	1.8	20
430	Improved Pore-Size Analysis of Carbonaceous Adsorbents. *Adsorption Science and Technology*, **2002**, 20, 307-315	3.6	32
429	Synthesis and characterization of polymer-templated ordered silica with cage-like mesostructure. *Studies in Surface Science and Catalysis*, **2002**, 141, 61-68	1.8	
428	Synthesis and adsorption properties of novel carbons of tailored porosity. *Studies in Surface Science and Catalysis*, **2002**, 345-352	1.8	1
427	Mesoporous Silicate−Surfactant Composites with Hydrophobic Surfaces and Tailored Pore Sizes. *Journal of Physical Chemistry B*, **2002**, 106, 10096-10101	3.4	24
426	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
425	Direct synthesis of mesostructured lamellar molybdenum disulfides using a molten neutral n-alkylamine as the solvent and template. *Journal of the American Chemical Society*, **2002**, 124, 12090-1	16.4	34
424	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
423	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
422	Determination of Mesopore Size Distributions from Argon Adsorption Data at 77 K. *Journal of Physical Chemistry B*, **2002**, 106, 4732-4739	3.4	93
421	1-Allyl-3-propylthiourea modified mesoporous silica for mercury removal. *Chemical Communications*, **2002**, 258-9	5.8	122
420	High surface area graphitized carbon with uniform mesopores synthesised by a colloidal imprinting method. *Chemical Communications*, **2002**, 1346-1347	5.8	55
419	Synthesis of Large-Pore Silica with Cage-Like Structure Using Sodium Silicate and Triblock Copolymer Template. *Langmuir*, **2002**, 18, 884-890	4	92
418	Synthesis and characterization of ordered mesoporous silicas with high loadings of methyl groups. *Journal of Materials Chemistry*, **2002**, 12, 3452-3457		38
417	Improved thermogravimetric determination of the specific surface area for cerium-incorporated MCM-41 materials. *Journal of Alloys and Compounds*, **2002**, 344, 190-194	5.7	9
416	Synthesis of an ordered macroporous carbon with 62 nm spherical pores that exhibit unique gas adsorption properties. *Chemical Communications*, **2002**, 1670-1	5.8	91
415	Periodic Mesoporous Organosilica with Large Cagelike Pores. *Chemistry of Materials*, **2002**, 14, 1903-1905	9.6	147
414	Determination of Phase Composition of MCM-48/Lamellar Phase Mixtures Using Nitrogen Adsorption and Thermogravimetry. *Chemistry of Materials*, **2002**, 14, 4434-4442	9.6	25

413	Characterization of modified mesoporous silicas using argon and nitrogen adsorption. *Microporous and Mesoporous Materials*, **2001**, 44-45, 725-732	5.3	33
412	Comprehensive characterization of highly ordered MCM-41 silicas using nitrogen adsorption, thermogravimetry, X-ray diffraction and transmission electron microscopy. *Microporous and Mesoporous Materials*, **2001**, 48, 127-134	5.3	66
411	A model-independent analysis of nitrogen adsorption isotherms on oxidized active carbons. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2001**, 189, 103-111	5.1	10
410	Adsorption and Thermogravimetric Studies of Mesoporous Silica Coated with Siloxane Polymer. *Journal of Colloid and Interface Science*, **2001**, 240, 224-228	9.3	16
409	Sequential Hydroboration–Alcoholysis and Epoxidation–Ring Opening Reactions of Vinyl Groups in Mesoporous Vinylsilica. *Advanced Functional Materials*, **2001**, 11, 447	15.6	42
408	Silica gel-templated mesoporous carbons prepared from mesophase pitch and polyacrylonitrile. *Carbon*, **2001**, 39, 2080-2082	10.4	32
407	Studies of Dehydration Process for Isostructural Series of Lanthanide(III) 2,6-dihydroxybenzoates. *Magyar Apró-ad K-lemények*, **2001**, 66, 841-849	0	7
406	Synthesis of polyferromethylsiloxane sorbents using a sol–gel method. *Solid State Sciences*, **2001**, 3, 169-182	3.4	2
405	Polyfunctionalised surfactant-templated adsorbents with high specific surface areas. *Mendeleev Communications*, **2001**, 11, 208-210	1.9	3
404	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
403	Gas Adsorption Characterization of Ordered Organic–Inorganic Nanocomposite Materials. *Chemistry of Materials*, **2001**, 13, 3169-3183	9.6	2680
402	Adsorption and Thermogravimetric Characterization of Mesoporous Materials with Uniform Organic–Inorganic Frameworks. *Journal of Physical Chemistry B*, **2001**, 105, 681-689	3.4	90
401	Synthesis and characterization of europium-doped ordered mesoporous silicas. *Journal of Materials Chemistry*, **2001**, 11, 2580-2586		14
400	Colloidal imprinting: a novel approach to the synthesis of mesoporous carbons. *Journal of the American Chemical Society*, **2001**, 123, 9208-9	16.4	209
399	Reference Data for Argon Adsorption on Graphitized and Nongraphitized Carbon Blacks. *Journal of Physical Chemistry B*, **2001**, 105, 12516-12523	3.4	87
398	Modification of SBA-15 pore connectivity by high-temperature calcination investigated by carbon inverse replication. *Chemical Communications*, **2001**, 349-350	5.8	161
397	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
396	Toward the Synthesis of Extra-Large-Pore MCM-41 Analogues. *Chemistry of Materials*, **2001**, 13, 1726-1731	9.6	67

395	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
394	Determination of the Specific Surface Areas of Non-Porous and Macroporous Carbons. *Adsorption Science and Technology*, **2001**, 19, 765-776	3.6	5
393	Bio-Inspired Nanocomposites: From Synthesis Toward Potential Applications. *Materials Research Society Symposia Proceedings*, **2001**, 707, 551		1
392	Bio-Inspired Nanocomposites: From Synthesis Toward Potential Applications. *Materials Research Society Symposia Proceedings*, **2001**, 711, 1		
391	Self-consistent determination of the lamellar phase content in MCM-41 using X-ray diffraction, nitrogen adsorption and thermogravimetry. *Studies in Surface Science and Catalysis*, **2000**, 129, 577-586	1.8	6
390	Fourier-Transform Infrared Spectroscopy Studies of the Interaction of Functionalized Siloxane Polymers with Porous Silica. *Journal of Colloid and Interface Science*, **2000**, 226, 131-135	9.3	7
389	Pore structure development in activated carbon honeycombs. *Carbon*, **2000**, 38, 983-993	10.4	40
388	Thermogravimetric monitoring of the MCM-41 synthesis. *Thermochimica Acta*, **2000**, 363, 175-180	2.9	46
387	Determination of the surface area and mesopore volume for lanthanide-incorporated MCM-41 materials by using high resolution thermogravimetry. *Thermochimica Acta*, **2000**, 345, 173-177	2.9	32
386	Thermogravimetric and adsorption studies of oxidized active carbons by using different probe molecules. *Thermochimica Acta*, **2000**, 345, 165-172	2.9	8
385	New insights into pore-size expansion of mesoporous silicates using long-chain amines. *Microporous and Mesoporous Materials*, **2000**, 35-36, 545-553	5.3	70
384	Nitrogen Adsorption Study of MCM-41 Molecular Sieves Synthesized Using Hydrothermal Restructuring. *Adsorption*, **2000**, 6, 47-51	2.6	47
383	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
382	Peculiarities of alkyl-modification of ordered mesoporous materials: A single-step treatment of uncalcined MCM-41 involving template removal and surface functionalization. *Studies in Surface Science and Catalysis*, **2000**, 265-274	1.8	3
381	Thermogravimetric characterization of mesoporous molecular sieves. *Studies in Surface Science and Catalysis*, **2000**, 129, 567-576	1.8	12
380	Synthesis and adsorption properties of cerium modified MCM-41. *Studies in Surface Science and Catalysis*, **2000**, 129, 187-194	1.8	7
379	Recent advances in adsorption characterization of mesoporous molecular sieves. *Studies in Surface Science and Catalysis*, **2000**, 587-596	1.8	16
378	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

377	Characterization of the Porous Structure of SBA-15. *Chemistry of Materials*, **2000**, 12, 1961-1968	9.6	1137
376	Functionalized MCM-41 and CeMCM-41 Materials Synthesized via Interfacial Reactions. *Journal of Physical Chemistry B*, **2000**, 104, 9713-9719	3.4	30
375	On the applicability of the Horwath-Kawazoe method for pore size analysis of MCM-41 and related mesoporous materials. *Studies in Surface Science and Catalysis*, **2000**, 128, 225-234	1.8	6
374	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
373	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
372	Functionalized Mesoporous Materials Obtained via Interfacial Reactions in Self-Assembled Silica□Surfactant Systems. *Chemistry of Materials*, **2000**, 12, 2496-2501	9.6	119
371	Characterization of Ordered Mesoporous Carbons Synthesized Using MCM-48 Silicas as Templates. *Journal of Physical Chemistry B*, **2000**, 104, 7960-7968	3.4	290
370	Determination of the Lamellar Phase Content in MCM-41 Using X-ray Diffraction, Nitrogen Adsorption, and Thermogravimetry. *Journal of Physical Chemistry B*, **2000**, 104, 1581-1589	3.4	41
369	Synthesis of New, Nanoporous Carbon with Hexagonally Ordered Mesostructure. *Journal of the American Chemical Society*, **2000**, 122, 10712-10713	16.4	2131
368	A new method for the accurate pore size analysis of MCM-41 and other silica based mesoporous materials. *Studies in Surface Science and Catalysis*, **2000**, 71-80	1.8	43
367	Influence of hydrothermal restructuring conditions on structural properties of mesoporous molecular sieves. *Microporous and Mesoporous Materials*, **1999**, 27, 217-229	5.3	73
366	A new complex of manganese(II) with l-□alanine: structure, spectroscopy and thermal study. *Polyhedron*, **1999**, 18, 2321-2326	2.7	20
365	Adsorption and Thermogravimetric Methods for Monitoring Surface and Structural Changes in Ordered Mesoporous Silicas Induced by their Chemical Modification. *Adsorption*, **1999**, 5, 313-317	2.6	8
364	Modification of Surface and Structural Properties of Ordered Mesoporous Silicates. *Adsorption*, **1999**, 5, 39-45	2.6	17
363	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
362	Comparative Studies of Carbon Blacks by Thermogravimetry and Nitrogen Adsorption. *Journal of Colloid and Interface Science*, **1999**, 210, 200-206	9.3	11
361	Monitoring Changes in Surface and Structural Properties of Porous Carbons Modified by Different Oxidizing Agents. *Journal of Colloid and Interface Science*, **1999**, 214, 438-446	9.3	58
360	Synthesis and Properties of Lanthanide Incorporated Mesoporous Molecular Sieves. *Journal of Colloid and Interface Science*, **1999**, 218, 462-467	9.3	45

359	Characterization of Silver-Containing Pitch-Based Activated Carbon Fibers. *Journal of Colloid and Interface Science*, **1999**, 220, 157-162	9.3	18
358	Determination of the Specific Surface Area and the Pore Size of Microporous Carbons from Adsorption Potential Distributions. *Langmuir*, **1999**, 15, 1442-1448	4	75
357	Simultaneous modification of mesopores and extraction of template molecules from MCM-41 with trialkylchlorosilanes. *Chemical Communications*, **1999**, 2373-2374	5.8	83
356	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
355	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
354	LIQUID CHROMATOGRAPHY STUDIES OF ACETONITRILE SORPTION ON SILICA-BASED OCTYL PHASES. *Journal of Liquid Chromatography and Related Technologies*, **1999**, 22, 1945-1964	1.3	2
353	Nitrogen Adsorption Study of Surface Properties of Graphitized Carbon Blacks. *Langmuir*, **1999**, 15, 1435-1441	4	127
352	Adsorption, Thermogravimetric, and NMR Studies of FSM-16 Material Functionalized with Alkylmonochlorosilanes. *Journal of Physical Chemistry B*, **1999**, 103, 6252-6261	3.4	53
351	Standard Nitrogen Adsorption Data for Characterization of Nanoporous Silicas. *Langmuir*, **1999**, 15, 5410-5413	4	467
350	Characterization of High-Quality MCM-48 and SBA-1 Mesoporous Silicas. *Chemistry of Materials*, **1999**, 11, 2568-2572	9.6	96
349	Characterization of Highly Ordered MCM-41 Silicas Using X-ray Diffraction and Nitrogen Adsorption. *Langmuir*, **1999**, 15, 5279-5284	4	134
348	Surface Heterogeneity Analysis of MCM-41 Metallosilicates by Using Nitrogen Adsorption Data *Langmuir*, **1999**, 15, 5683-5688	4	29
347	A Unified Interpretation of High-Temperature Pore Size Expansion Processes in MCM-41 Mesoporous Silicas. *Journal of Physical Chemistry B*, **1999**, 103, 4590-4598	3.4	104
346	Comparative analysis of simple and advanced sorption methods for assessment of microporosity in activated carbons. *Carbon*, **1998**, 36, 1447-1458	10.4	93
345	Comparative studies of structural and surface properties of porous inorganic oxides used in liquid chromatography. *Journal of Chromatography A*, **1998**, 797, 93-102	4.5	50
344	Comparative studies of chromatographic properties of silica-based amide-bonded phases under hydro organic conditions. *Journal of Chromatography A*, **1998**, 797, 103-110	4.5	28
343	Characterization of silica-based octyl phases of different bonding density. *Journal of Chromatography A*, **1998**, 828, 51-58	4.5	21
342	Characterization of silica-based octyl phases of different bonding density. *Journal of Chromatography A*, **1998**, 828, 59-73	4.5	13

341	Studies of Surface Properties of Disperse Silica and Alumina by Luminescence Measurements and Nitrogen Adsorption. *Journal of Colloid and Interface Science*, **1998**, 201, 210-219	9.3	16
340	Characterization of Structural and Surface Properties of Activated Carbon Fibers. *Journal of Colloid and Interface Science*, **1998**, 204, 151-6	9.3	52
339	Adsorption Characterization of Two Clay Minerals Society Standard Kaolinites. *Journal of Colloid and Interface Science*, **1998**, 205, 528-530	9.3	21
338	New Approaches to Pore Size Engineering of Mesoporous Silicates. *Advanced Materials*, **1998**, 10, 1376-1379	2.4	170
337	Comparative Characterization of Octyl Bonded Phases using Methylene Selectivity Data. *Journal of Liquid Chromatography and Related Technologies*, **1998**, 21, 923-939	1.3	16
336	Adsorption Characterization of Active Carbons Modified by Deposition of Silica. *Langmuir*, **1998**, 14, 2485-2489	4	5
335	Adsorption, Thermogravimetric, and Chromatographic Studies of Bare Silicas and Silica-Based Octyl Bonded Phases. *Journal of Liquid Chromatography and Related Technologies*, **1998**, 21, 1957-1977	1.3	5
334	Estimation of the Surface Properties of Unmodifed and Strongly Oxidized Active Carbons on the Basis of Water Vapour Adsorption Isotherms. *Adsorption Science and Technology*, **1998**, 16, 295-302	3.6	6
333	Laser heating of photoelectrons during multiphoton ionization of molecular ions adsorbed on disperse silica surfaces. *Physical Review A*, **1997**, 56, 3056-3059	2.6	5
332	Shape-selective Raman scattering from surface phonon modes in aggregates of amorphous SiO2 nanoparticles. *Journal of Applied Physics*, **1997**, 82, 3499-3507	2.5	25
331	Influence of the Pore Geometry on the Micropore Size Distribution Function of Active Carbons. *Adsorption Science and Technology*, **1997**, 15, 571-581	3.6	9
330	Spontaneous and Stimulated Raman Scattering from Surface Phonon Modes in Aggregated SiO2 Nanoparticles. *Journal of Physical Chemistry B*, **1997**, 101, 8832-8835	3.4	21
329	Chromatographic Properties of Mixed Chemically Bonded Phases with Alkylamide and Aminopropyl Ligands. *Journal of Liquid Chromatography and Related Technologies*, **1997**, 20, 2313-2325	1.3	20
328	Characterization of Large-Pore MCM-41 Molecular Sieves Obtained via Hydrothermal Restructuring. *Chemistry of Materials*, **1997**, 9, 2499-2506	9.6	311
327	Fifty years of the theory of the volume filling of micropores. *Adsorption*, **1997**, 3, 187-188	2.6	13
326	Critical discussion of simple adsorption methods used to evaluate the micropore size distribution. *Adsorption*, **1997**, 3, 209-219	2.6	50
325	Influence of analysis conditions on low pressure adsorption measurements and its consequences in characterization of energetic and structural heterogeneity of microporous carbons. *Adsorption*, **1997**, 3, 277-282	2.6	12
324	Structural and surface properties of siliceous and titanium-modified HMS molecular sieves. *Microporous Materials*, **1997**, 9, 173-182		34

323	Monitoring of the structure of siliceous mesoporous molecular sieves tailored using different synthesis conditions. *Microporous Materials*, **1997**, 12, 93-106		61
322	Thermogravimetric Studies of Silica Physically and Chemically Modified with the Liquid Crystal 4'-Cyano-4-Biphenyl. *Journal of Colloid and Interface Science*, **1997**, 185, 39-43	9.3	9
321	Surface and Structural Properties of Novel Titanium Phosphates. *Journal of Colloid and Interface Science*, **1997**, 191, 442-8	9.3	31
320	Nitrogen Adsorption Studies of Novel Synthetic Active Carbons. *Journal of Colloid and Interface Science*, **1997**, 192, 250-6	9.3	229
319	Adsorption Energy Evaluation from Luminescence Spectra of Uranyl Ions (UO22+) Adsorbed on Disperse Silica Surfaces. *Journal of Colloid and Interface Science*, **1997**, 194, 455-69	9.3	11
318	Preparation and characterization of silica-carbon hybrids. *Carbon*, **1997**, 35, 133-139	10.4	20
317	Selectivity of alkylamide bonded-phases with respect to organic acids under reversed-phase conditions. *Journal of Chromatography A*, **1997**, 762, 147-58	4.5	32
316	Application of Alkylamide Phases to Separate Compounds of Different Polarity Under Reversed Phase Conditions. *Journal of Liquid Chromatography and Related Technologies*, **1996**, 19, 2829-2841	1.3	12
315	Studies of the interfacial properties of chemically bonded phases by sorption and liquid chromatography. *Journal of Chromatography A*, **1996**, 722, 19-24	4.5	23
314	Retention of pyridinecarboxylic acids on monomeric and polymeric alkylamide phases. *Journal of Chromatography A*, **1996**, 728, 213-224	4.5	11
313	Thermogravimetric evaluation of the specific surface area and total porosity of microporous carbons. *Carbon*, **1996**, 34, 1109-1113	10.4	18
312	Adsorption Study of Porous Structure Development in Carbon Blacks. *Journal of Colloid and Interface Science*, **1996**, 182, 282-288	9.3	86
311	Characterization of microporous carbons by using TGA curves measured under controlled conditions. *Thermochimica Acta*, **1996**, 272, 65-73	2.9	9
310	Relation between adsorption potential distribution and pore volume distribution for microporous carbons. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1996**, 118, 203-210	5.1	45
309	Comparative characterization of selected additives by high resolution thermogravimetry and nitrogen adsorption. *Journal of Porous Materials*, **1996**, 3, 181-187	2.4	3
308	Thermoanalytical studies of water films on porous silicas at subambient and elevated temperatures. *Thermochimica Acta*, **1996**, 287, 225-233	2.9	12
307	Competitive Interactions of Phenol Derivatives and Aliphatic Alcohols for Alkenyl and Diol Silica Surfaces. *Journal of Liquid Chromatography and Related Technologies*, **1996**, 19, 2811-2827	1.3	1
306	Surface and Structural Properties of Silica Gels Used in High Performance Liquid Chromatography. *Journal of Liquid Chromatography and Related Technologies*, **1996**, 19, 1523-1537	1.3	14

305	Adsorption Characterization of Octyl Bonded Phases for High Performance Liquid Chromatography. *Journal of Liquid Chromatography and Related Technologies*, **1996**, 19, 2767-2784	1.3	27
304	Synthesis and Characterization of Silica-Immobilized Serum Albumin Stationary Phases for HPLC. *Journal of Liquid Chromatography and Related Technologies*, **1996**, 19, 2943-2965	1.3	9
303	Comparison of the retention of organic acids on alkyl and alkylamide chemically bonded phases. *Journal of Chromatography A*, **1995**, 691, 217-224	4.5	36
302	Comparison of Energy Distributions Calculated for Active Carbons from Benzene Gas/Solid and Liquid/Solid Adsorption Data. *Langmuir*, **1995**, 11, 1297-1303	4	25
301	Verification of selected relationships for fractally porous solids by using adsorption isotherms calculated from density functional theory. *Surface Science*, **1995**, 342, L1127-L1130	1.8	6
300	Evaluation of the Fractal Dimension from a Single Adsorption Isotherm. *Langmuir*, **1995**, 11, 2316-2317	4	158
299	Use of Simulated Adsorption Isotherms To Study Surface and Structural Heterogeneities of Microporous Solids. *Langmuir*, **1995**, 11, 4532-4538	4	18
298	Differential scanning calorimetric and Fourier transform infrared spectrometric investigations of the influence of silica on the liquid crystalline properties of 4?-cyano-4-biphenyl[4-(4-pentenyloxy)]benzoate. *Analytica Chimica Acta*, **1995**, 315, 77-81	6.6	4
297	Studies of surface and structural heterogeneities of microporous carbons by high-resolution thermogravimetry. *Studies in Surface Science and Catalysis*, **1994**, 87, 613-622	1.8	8
296	Studies of physicochemical and chromatographic properties of mixed amino-alkylamide bonded phases. *Journal of Chromatography A*, **1994**, 673, 11-19	4.5	53
295	Reordering / resonation studies of alkylamide phases. *Journal of Chromatography A*, **1994**, 659, 261-265	4.5	23
294	Chromatographic and related studies of alkylamide phases. *Chromatographia*, **1994**, 39, 155-161	2.1	27
293	Infrared Studies of the Microdomains and Mesomorphic Properties of 4'-Cyano-4-biphenyl [4-(4-pentenyloxy)]benzoate Coated on Silica. *Analytical Chemistry*, **1994**, 66, 4100-4104	7.8	12
292	Relation Between Energetic and Structural Heterogeneities for Microporous Active Carbons. *Studies in Surface Science and Catalysis*, **1994**, 633-640	1.8	2
291	Energetic heterogeneity of reference carbonaceous materials. *Langmuir*, **1993**, 9, 2537-2546	4	41
290	Evaluation of the energy distribution function from liquid/solid adsorption measurements. *Langmuir*, **1993**, 9, 2547-2554	4	28
289	Studies of the structural heterogeneity of microporous carbons using liquid/solid adsorption isotherms. *Langmuir*, **1993**, 9, 2555-2561	4	28
288	Theory of ion-pair reversed-phase liquid chromatography on energetically heterogeneous solid surfaces. *Langmuir*, **1993**, 9, 749-755	4	3

287	Correlation between microporosity and fractal dimension of active carbons. *Carbon*, **1993**, 31, 325-331	10.4	37
286	Application of a new numerical method for characterizing heterogeneous solids by using gas-solid chromatographic data. *Journal of Chromatography A*, **1993**, 628, 59-67	4.5	19
285	Competitive adsorption from multicomponent non-electrolytic liquid mixtures on heterogeneous solid surfaces. *Monatshefte Fü Chemie*, **1993**, 124, 229-242	1.4	
284	Partition and displacement models in reversed-phase liquid chromatography with mixed eluents. *Journal of Chromatography A*, **1993**, 656, 37-50	4.5	115
283	Liquid Chromatographic Studies of Silica-Immobilized Bovine Serum Albumin Under Normal-Phase Conditions: Separation of Phenolic Solutes Using Ternary Mixtures of Hydrogen Chloride-Diethyl Ether-Hexane as Eluents. *Journal of Liquid Chromatography and Related Technologies*, **1992**, 15, 2503-2518		7
282	Partition-Sorption Model for Describing Non-Specific Selectivity in Reversed-Phase Liquid Chromatography. *Journal of Liquid Chromatography and Related Technologies*, **1992**, 15, 1431-1442		7
281	Investigations of water film on the surface of activated carbons by thermal analysis. *Langmuir*, **1992** , 8, 229-232	4	26
280	Energetic heterogeneity of oxidized activated carbon fibers. *Materials Chemistry and Physics*, **1992**, 30, 239-243	4.4	1
279	Application of programmable liquid thermodesorption under quasi-isothermal conditions to study physicochemical properties of liquid films and solid surfaces. *Journal of Thermal Analysis*, **1992**, 38, 2041-2051		6
278	Thermoanalytical studies of water on aluminum oxides with different porosities. *Analytica Chimica Acta*, **1992**, 269, 157-165	6.6	15
277	The solution of adsorption integral equations by means of the regularization method. *Journal of Computational Chemistry*, **1992**, 13, 17-32	3.5	214
276	Use of adsorption isotherms of light normal alkanes for characterizing microporous activated carbons. *Langmuir*, **1991**, 7, 173-177	4	23
275	Use of a displacement model for solvent sorption to study non-specific selectivity in reversed-phase liquid chromatography. *Chromatographia*, **1991**, 32, 13-18	2.1	12
274	Surface fractal dimension of microporous carbon fibres by nitrogen adsorption. *Journal of the Chemical Society, Faraday Transactions*, **1991**, 87, 179		65
273	Correlation between adsorption of benzene from dilute aqueous solutions and benzene vapor adsorption on microporous active carbons. *Carbon*, **1991**, 29, 1294-1296	10.4	11
272	An improved method for evaluating the micropore-size distribution from adsorption isotherm. *Chemical Engineering Science*, **1991**, 46, 3299-3301	4.4	12
271	Influence of an energetically heterogeneous surface on the second gas-solid virial coefficient. *Journal of Colloid and Interface Science*, **1991**, 146, 580-581	9.3	1
270	Correlation between the fractal dimension and the microporous structure of a solid. *Monatshefte Fü Chemie*, **1991**, 122, 577-584	1.4	14

269	Application of Gas-Solid Adsorption Chromatography for Characterizing Adsorbent Heterogeneity. *Separation Science and Technology*, **1991**, 26, 269-277	2.5	2
268	Studies of the Surface Heterogeneity of Chemically Modified Porous Carbons by Gas-Solid Chromatography. *Journal of Chromatographic Science*, **1991**, 29, 147-152	1.4	20
267	Evaluation of energetic heterogeneity and microporosity of activated carbon fibers on the basis of gas adsorption isotherms. *Langmuir*, **1991**, 7, 2719-2722	4	41
266	Theory of liquid-solid adsorption chromatography with mixed eluents on energetically heterogeneous adsorbents. *Langmuir*, **1991**, 7, 1784-1790	4	2
265	Studies of the surface composition of phenyl and cyanopropyl bonded phases under reversed-phase liquid chromatographic conditions using alkanoate and perfluoroalkanoate esters. *Analytical Chemistry*, **1991**, 63, 2849-2852	7.8	15
264	Use of a gamma energy distribution to model the gas chromatographic temperature dependence of solute retention on aryl-siloxane chemically modified porous carbon. *Journal of Chromatography A*, **1990**, 513, 1-11	4.5	15
263	Dependence of the methylene selectivity on the composition of hydro-organic eluents for reversed-phase liquid chromatographic systems with alkyl bonded phases. *Chromatographia*, **1990**, 30, 393-399	2.1	25
262	Evaluation of structural heterogeneities and surface irregularities of microporous solids. *Materials Chemistry and Physics*, **1990**, 26, 87-97	4.4	16
261	Correlation between the bet parameters and the parameters that characterize the microporous structures of activated carbons. *Materials Chemistry and Physics*, **1990**, 25, 287-296	4.4	3
260	Application of the generalized Jaroniec-Choma isotherm equation for describing benzene adsorption on acttvated carbons. *Materials Chemistry and Physics*, **1990**, 25, 323-330	4.4	5
259	A simple method for evaluating the isotherm parameters for adsorption from dilute solutions on solids. *Materials Chemistry and Physics*, **1990**, 24, 287-297	4.4	4
258	Total specific surface area of heterogeneous microporous activated carbons. *Materials Chemistry and Physics*, **1990**, 24, 315-320	4.4	
257	Excess adsorption isotherms for solid-liquid systems and their analysis to determine the surface phase capacity. *Advances in Colloid and Interface Science*, **1990**, 31, 155-223	14.3	31
256	Comparison of the equilibrium adsorption isotherms measured by the dynamic and static methods for hydrocarbons on microporous activated carbons. *Carbon*, **1990**, 28, 737-739	10.4	2
255	Comparative studies of adsorption of ethane and benzene on microporous activated carbons. *Chemical Engineering Science*, **1990**, 45, 1539-1545	4.4	4
254	Evaluation of the fractal dimension of microporous activated carbons. *Fuel*, **1990**, 69, 1573-1574	7.1	14
253	Adsorption of water vapor on modified activated carbons. *Monatshefte F□ Chemie*, **1990**, 121, 971-978	1.4	4
252	An isotherm equation for solute adsorption from dilute solutions on heterogeneous solids. *Carbon*, **1990**, 28, 734-736	10.4	1

251	Comparative studies of the overall adsorption isotherm associated with Dubinin-Astakhov equation. *Carbon*, **1990**, 28, 243-246	10.4	12
250	Pressure swing adsorption for a system with a Langmuir-Freundlich isotherm. *Chemical Engineering Science*, **1990**, 45, 1097-1103	4.4	5
249	A simple method for describing multi-solute adsorption equilibria on activated carbons. *Chemical Engineering Science*, **1990**, 45, 143-149	4.4	2
248	Use of argon adsorption isotherms for characterizing microporous activated carbons. *Fuel*, **1990**, 69, 516-518	7.1	7
247	A comparative method for studying adsorption from binary nonelectrolytic liquid mixtures on microporous solids. *Journal of Colloid and Interface Science*, **1990**, 135, 405-409	9.3	3
246	Characterization of the surface composition of alkyl bonded phases under reversed-phase liquid chromatographic conditions using homologues of alkanoate and perfluoroalkanoate esters as solute probes. *Analytical Chemistry*, **1990**, 62, 2092-2098	7.8	31
245	Thermodynamics of gas adsorption on fractal surfaces of heterogeneous microporous solids. *Journal of Chemical Physics*, **1990**, 92, 7589-7595	3.9	46
244	Adsorption isotherm equations associated with the gamma micropore-size distribution and their application for characterizing microporous solids. *Materials Chemistry and Physics*, **1989**, 24, 1-12	4.4	2
243	Adsorption of ethane on microporous activated carbon. *Materials Chemistry and Physics*, **1989**, 21, 427-436	4.4	1
242	Benzene adsorption on microporous activated carbons. *Carbon*, **1989**, 27, 485-487	10.4	3
241	Application of an exponential isotherm equation for describing gas adsorption on microporous activated carbons. *Carbon*, **1989**, 27, 567-571	10.4	2
240	Comparison of adsorption methods for characterizing the microporosity of activated carbons. *Carbon*, **1989**, 27, 77-83	10.4	66
239	A new description of micropore filling and its application for characterizing microporous solids. *Colloids and Surfaces*, **1989**, 37, 183-196		2
238	Determination of parameters that characterize microporous structures of activated carbons. *Journal of Colloid and Interface Science*, **1989**, 132, 589-591	9.3	
237	A simplified integral equation for adsorption of gas mixtures on heterogeneous surfaces. *Monatshefte F Chemie*, **1989**, 120, 225-230	1.4	
236	Adsorption of propane andn-butane on polystyrene adsorbents. *Monatshefte F Chemie*, **1989**, 120, 401-411	1.4	2
235	An isotherm equation for adsorption on fractal surfaces of heterogeneous porous materials. *Langmuir*, **1989**, 5, 1431-1433	4	429
234	Assessment of microporosity in porous adsorbents by comparing the liquid-solid adsorption isotherms. *Langmuir*, **1989**, 5, 987-990	4	20

233	Extension of the Langmuir equation for describing gas adsorption on heterogeneous microporous solids. *Langmuir*, **1989**, 5, 839-844	4	16
232	Use of a Polynomial Equation for Analyzing Low-Concentration Adsorption Measurements of Ethane on Activated Carbons. *Separation Science and Technology*, **1989**, 24, 1355-1361	2.5	2
231	Parameters of microporous structure of carbonaceous adsorbents gasified with air or carbon dioxide. *Journal of the Chemical Society Faraday Transactions I*, **1989**, 85, 3125		10
230	A comprehensive theoretical description of physical adsorption of vapors on heterogeneous microporous solids. *The Journal of Physical Chemistry*, **1989**, 93, 5225-5230		30
229	Model of double associates for sorption of binary gas mixtures on polymers. *Angewandte Makromolekulare Chemie*, **1988**, 160, 107-115		
228	Distribution functions characterizing structural heterogeneity of activated carbons. *Carbon*, **1988**, 26, 1-6	10.4	25
227	Adsorption of acetone on activated carbon. *Carbon*, **1988**, 26, 98-100	10.4	2
226	Physical interpretation of the energy parameter in the Dubinin-Raduskevich equation. *Carbon*, **1988** , 26, 107-108	10.4	11
225	Comparison of the adsorption isotherm equations associated with Gaussian and Gamma micropore-size distributions. *Carbon*, **1988**, 26, 747-748	10.4	17
224	Application of isotherm equation associated with gamma micropore-size distribution for characterizing activated carbons. *Chemical Engineering Science*, **1988**, 43, 3151-3156	4.4	4
223	Consequence of assuming gamma-type distribution for characterizing structural heterogeneity of microporous solids. *Monatshefte F Chemie*, **1988**, 119, 545-552	1.4	
222	Gas adsorption on solids withGaussian micropore-size distributions. *Monatshefte F Chemie*, **1988**, 119-119, 889-901	1.4	4
221	Studies of adsorption and partition effects in liquid chromatography with mixed mobile phases. *Journal of Chromatography A*, **1988**, 452, 131-135	4.5	2
220	Solute adsorption from dilute solutions on structurally heterogeneous solids. *Journal of Colloid and Interface Science*, **1988**, 125, 561-566	9.3	5
219	Thermodynamic functions associated with the exponential isotherm equation for gas adsorption on heterogeneous microporous solids. *Journal of Colloid and Interface Science*, **1988**, 126, 69-73	9.3	8
218	Sorption properties of polystyrene adsorbents from isotherms of propane and n-butane. *Materials Chemistry and Physics*, **1988**, 19, 247-254	4.4	1
217	On the characterization of structural heterogeneity of microporous solids by discrete and continuous micropore distribution functions. *Materials Chemistry and Physics*, **1988**, 19, 267-289	4.4	19
216	Characterization of activated carbons by ktilizink the nitroken adsorption data. *Materials Chemistry and Physics*, **1988**, 20, 179-189	4.4	3

215	Characterization of energetic and structural heterogeneities of activated carbons. *Langmuir*, **1988**, 4, 911-917	4	25
214	Correlations of heterogeneity parameters for single-solute and multi-solute adsorption from dilute solutions. *Journal of the Chemical Society Faraday Transactions I*, **1988**, 84, 2951		20
213	Adsorption theory of volume filling of micropores for structurally heterogeneous solids. *Journal of the Chemical Society, Faraday Transactions 2*, **1988**, 84, 1139		13
212	Enthalpy of immersion of a microporous solid. *The Journal of Physical Chemistry*, **1988**, 92, 3986-3988		21
211	Simple Models in Liquid Chromatography with Mixed Mobile Phases: Present and Future. *Journal of Liquid Chromatography and Related Technologies*, **1987**, 10, 1949-1959		1
210	Description of Non-Specific and Specific Solute-Solvent Interactions in Liquid Chromatography with Mixed Eluents. *Journal of Liquid Chromatography and Related Technologies*, **1987**, 10, 541-559		4
209	Reversed-Phase Liquid Chromatography with Mixed Eluents: Partition Model of Retention for Ionogenic Solutes. *Journal of Liquid Chromatography and Related Technologies*, **1987**, 10, 2033-2045		3
208	A new concept for the theoretical description of solute adsorption from dilute solutions on solids. *Langmuir*, **1987**, 3, 673-675	4	6
207	Gas Adsorption on Structurally Heterogeneous Microporous Solids. *Separation Science and Technology*, **1987**, 22, 2367-2380	2.5	7
206	Thermodynamics of gas adsorption on heterogeneous microporous solids. *Langmuir*, **1987**, 3, 795-799	4	36
205	Correlation of heterogeneity parameters for adsorption of single gases and gas mixtures on solids. *Chemical Engineering Science*, **1987**, 42, 2135-2141	4.4	6
204	Correlations among parameters of Dubinin-Radushkevich and Langmuir-Freundlich isotherms for adsorption from binary liquid mixtures on solids. *Journal of Colloid and Interface Science*, **1987**, 117, 339-346	9.3	3
203	A simple isotherm equation for describing gas adsorption on heterogeneous microporous solids. *Monatshefte F□ Chemie*, **1987**, 118, 315-321	1.4	13
202	The energy distribution function associated with dubinin's description of gas adsorption on heterogeneous microporous solids. *Carbon*, **1987**, 25, 579-582	10.4	9
201	Discussion of the theoretical isotherms describing adsorption from multicomponent liquid mixtures on heterogeneous solids of quasi-Gaussian energy distribution. *Chemical Engineering Science*, **1987**, 42, 2143-2150	4.4	5
200	Theoretical foundations of physical adsorption from binary non-electrolytic liquid mixtures on solid surfaces: present and future. *Advances in Colloid and Interface Science*, **1987**, 27, 211-283	14.3	34
199	Models of solute and solvent distribution for describing retention in liquid chromatography. *Journal of Chromatography A*, **1987**, 387, 55-64	4.5	30
198	Heterogeneity effects in argon and krypton adsorption on boron phosphate. *Journal of Colloid and Interface Science*, **1987**, 115, 576-578	9.3	2

197	Determination of the micropore volume of activated carbon from the adsorption isotherms of light hydrocarbons. *Materials Chemistry and Physics*, **1987**, 16, 583-586	4.4	2
196	Characterization of activated carbons by distribution functions of adsorption potential and micropore dimension. *Materials Chemistry and Physics*, **1987**, 18, 103-117	4.4	18
195	On the mesopore correction of adsorption data used for characterizing microporous structure of activated carbons. *Materials Chemistry and Physics*, **1987**, 18, 409-421	4.4	5
194	A new numerical method for calculating the energy distribution from adsorption isotherm data. *Chemical Physics Letters*, **1986**, 125, 241-245	2.5	11
193	Study of Cd(II) adsorption from aqueous solution on activated carbons. *Carbon*, **1986**, 24, 15-20	10.4	29
192	A linear relationship between partition ratio and composition of a binary mobile phase in reversed-phase liquid chromatography using chemically bonded stationary phases. *Journal of High Resolution Chromatography*, **1986**, 9, 236-239		2
191	New description of heterogeneity effects in adsorption from multicomponent solutions and liquid adsorption chromatography. *Journal of High Resolution Chromatography*, **1986**, 9, 452-455		3
190	Recent progress in determination of energetic heterogeneity of solids from adsorption data. *Surface Science Reports*, **1986**, 6, 65-117	12.9	128
189	Energetic heterogeneity and molecular size effects in physical adsorption on solid surfaces. *Journal of Colloid and Interface Science*, **1986**, 109, 310-324	9.3	35
188	Isotherm equations for adsorption on heterogeneous microporous solids. *Monatshefte Fü Chemie*, **1986**, 117, 7-19	1.4	37
187	A simple method for determining the multilayer effects in adsorption of alcohols on silica gel. *Monatshefte Fü Chemie*, **1986**, 117, 579-588	1.4	2
186	A general model of liquid□solid chroamtography with mixed mobile phases involving concurrent adsorption and partition effects. *Journal of Chromatography A*, **1986**, 351, 1-16	4.5	57
185	Characterization of heterogeneity of activated carbons by utilizing the benzene adsorption data. *Materials Chemistry and Physics*, **1986**, 15, 521-536	4.4	62
184	A new method for characterizing global adsorbent heterogeneity by using adsorption data. *Materials Chemistry and Physics*, **1986**, 14, 141-166	4.4	13
183	An Extension and New Interpretation of O□ik's Equation for Describing Liquid Chromatography with Mixed Mobile Phases. II. Partition and Adsorption Effects. *Journal of Liquid Chromatography and Related Technologies*, **1986**, 9, 2555-2562		7
182	Solute Dissociation Effects in Reversed Phase Liquid Chromatography with Mixed Eluents. *Journal of Liquid Chromatography and Related Technologies*, **1986**, 9, 1951-1969		1
181	Liquid/Solid Interfaces: Studies of Kinetics of Isotope Exchange. *Adsorption Science and Technology*, **1985**, 2, 97-119	3.6	6
180	Adsorption of 1-olefin/n-paraffin liquid mixtures on NaX and NaY zeolites. *Journal of Inclusion Phenomena*, **1985**, 3, 85-93		4

179	A generalized equation describing isotope exchange kinetics at solid-liquid interface. *Monatshefte F□ Chemie*, **1985**, 116, 305-310	1.4	4
178	Gas adsorption on energetically heterogeneous solid surfaces: On the choice of local adsorption isotherm. *Journal of Colloid and Interface Science*, **1985**, 108, 50-59	9.3	9
177	Numerical solutions of the adsorption integral equation utilizing the spline functions. *Thin Solid Films*, **1985**, 123, 245-272	2.2	30
176	Application of chromatographic and adsorption data for characterizing liquid/solid adsorption systems. *Fresenius Zeitschrift F□ Analytische Chemie*, **1985**, 321, 371-373		6
175	Characterization 0f solid-liquid adsorption systems by using Gaussian energy distribution. *Materials Chemistry and Physics*, **1985**, 12, 339-365	4.4	7
174	Studies of association effects in adsorption from multicomponent solutions on solids. *Chemical Engineering Science*, **1985**, 40, 917-922	4.4	5
173	CPS L 946. *Colloid and Polymer Science*, **1985**, 263, 771-777	2.4	12
172	A new equation for bilayer adsorption from binary liquid mixtures on homogeneous solid surfaces. *Chemical Engineering Science*, **1985**, 40, 473-480	4.4	2
171	Theoretical basis of liquid adsorption chromatography with mixed mobile phases and its connection with the theory of adsorption from multicomponent solutions. *Advances in Colloid and Interface Science*, **1985**, 22, 177-227	14.3	50
170	Monomolecular mixed-gas sorption on polymers. *Chemical Physics Letters*, **1985**, 120, 416-419	2.5	
169	Liquid Chromatography with Mixed Mobile Phases: Interpretation of the Model Chromatographic Data by Means of the Simple Linear Relationship. *Journal of Liquid Chromatography and Related Technologies*, **1985**, 8, 1965-1987		6
168	An Extension and new Interpretation of Oscik's Equation Describing Liquid Chromatography with Mixed Mobile Phases. *Journal of Liquid Chromatography and Related Technologies*, **1985**, 8, 1363-1378		13
167	A Simple Linear Dependence of the Logarithm of the Capacity Ratio upon Mobile Phase Composition in the Reversed-Phase Liquid Chromatography. *Journal of Liquid Chromatography and Related Technologies*, **1985**, 8, 441-448		3
166	Effects of Solute-Solvent Interactions in Liquid Adsorption Chro- Matography with Mixed Mobile Phase. *Journal of Liquid Chromatography and Related Technologies*, **1985**, 8, 651-661		4
165	Surface Heterogeneity Effects in Liquid-Solid Chromatography with Mixed Eluents. *Journal of Liquid Chromatography and Related Technologies*, **1985**, 8, 1953-1963		6
164	Theoretical description of association effects in liquid adsorption chromatography with a mixed mobile phase. *Journal of Chromatography A*, **1984**, 295, 377-386	4.5	15
163	Studies of the surface heterogeneity of high disperse silica chemically modified by sodium and potassium oxides using low-temperature nitrogen adsorption data. *Journal of Colloid and Interface Science*, **1984**, 99, 493-506	9.3	7
162	Studies of heterogeneous isotope exchange of Cd (II) between the solution and the surface layer formed on aluminium oxide and activated carbon. *Materials Chemistry and Physics*, **1984**, 11, 195-200	4.4	7

161	Single-solute adsorption from dilute solutions on heterogeneous microporous solids. *Carbon*, **1984**, 22, 157-161	10.4	4
160	Partially mobile adsorption of gases on solid surfaces. *Advances in Colloid and Interface Science*, **1984**, 20, 273-339	14.3	17
159	Multilayer effects in liquid adsorption chromatography with mixed mobile phases. *Journal of High Resolution Chromatography*, **1984**, 7, 203-207		1
158	Relationships defining dependence between adsorption parameters of Dubinin-Astakhov and generalized Langmuir equations. *Journal of Colloid and Interface Science*, **1984**, 101, 280-281	9.3	15
157	Multilayer single-solute adsorption from dilute solutions on energetically heterogeneous solids. *Chemical Engineering Science*, **1984**, 39, 65-70	4.4	7
156	Isotope exchange kinetics at heterogeneous solid surfaces (solid-liquid interfaces). *Monatshefte F Chemie*, **1984**, 115, 147-154	1.4	8
155	Physical adsorption of gases on energetically heterogeneous solids I. GeneralizedLangmuir equation and its energy distribution. *Monatshefte F Chemie*, **1984**, 115, 997-1012	1.4	26
154	Physical adsorption of gases on energetically heterogeneous solids II. Theoretical extension of a generalizedLangmuir equation and its application for analysing adsorption data. *Monatshefte F Chemie*, **1984**, 115, 1013-1038	1.4	10
153	Adsorption from solutions of nonelectrolytes on heterogeneous solid surfaces: A four-parameter equation for the excess adsorption isotherm. *Monatshefte F Chemie*, **1984**, 115, 541-550	1.4	3
152	Determination of Solvation Effects in Liquid Adsorption Chromatography with Mixed Mobile Phases. *Journal of Liquid Chromatography and Related Technologies*, **1984**, 7, 1289-1300		2
151	Theoretical Foundations of Liquid Adsorption Chromatography with Mixed Eluent. *Journal of Liquid Chromatography and Related Technologies*, **1984**, 7, 393-431		22
150	Theoretical Foundations of Solute Adsorption from Dilute Solutions on Solids. *Studies in Environmental Science*, **1984**, 23, 297-311		1
149	A new isotherm equation for single-solute adsorption from dilute solutions on energetically heterogeneous solids. *Monatshefte F Chemie*, **1983**, 114, 711-715	1.4	48
148	TheLangmuir-Freundlich equation in adsorption from dilute solutions on solids. *Monatshefte F Chemie*, **1983**, 114, 393-397	1.4	30
147	Multilayer effects in adsorption of alcohols from benzene andn-heptane on silica gel. *Monatshefte F Chemie*, **1983**, 114, 559-562	1.4	8
146	Adsorption of 1-tetradecene/dodecane mixtures on different types of zeolites. *Monatshefte F Chemie*, **1983**, 114, 857-873	1.4	9
145	Dependence of selectivity and resolution upon composition of the binary mobile phase in LSC. *Journal of High Resolution Chromatography*, **1983**, 6, 27-30		1
144	Current state in adsorption from multicomponent solutions of nonelectrolytes on solids. *Advances in Colloid and Interface Science*, **1983**, 19, 137-177	14.3	50

143	An equation for multi-solute adsorption from dilute aqueous solutions involving energetic heterogeneity of the solid and differences in molecular sizes of the solutes. *Chemical Engineering Science*, **1983**, 38, 307-311	4.4	10
142	Studies of adsorption kinetics by means of the stochastic numerical simulation. *Surface Science Reports*, **1983**, 3, 301-353	12.9	14
141	Physical adsorption on heterogeneous solids. Present and future. *Thin Solid Films*, **1983**, 100, 325-328	2.2	8
140	Theoretical description of adsorbate-adsorbate association in the case of mobile monolayer adsorption of gases on homogeneous solid surfaces. *Thin Solid Films*, **1983**, 100, 43-52	2.2	5
139	Adsorption of mixtures of methane and krypton on CaA zeolite II: Analysis of the experimental data using Freundlich- and Dubinin-Radushkevich-type equations derived by assuming similar heterogeneity parameters for single-gas adsorption. *Thin Solid Films*, **1983**, 106, 219-224	2.2	1
138	Theory of multilayer adsorption from multicomponent liquid mixtures on homogeneous solid surfaces. *Thin Solid Films*, **1983**, 103, 399-415	2.2	3
137	Association effects in adsorption from multicomponent solutions on solids and liquid adsorption chromatography. *Journal of the Chemical Society Faraday Transactions I*, **1983**, 79, 363		24
136	Thermodynamic Approach to TLC with Mixed mobile Phase. Determination of Parameters Characterizing TLC Systems. *Journal of Liquid Chromatography and Related Technologies*, **1983**, 6, 81-93		5
135	Studies of isotope exchange kinetics at the electrolyte solution/solid interface. *Materials Chemistry and Physics*, **1983**, 9, 351-358	4.4	6
134	Physical adsorption on heterogeneous solids. *Advances in Colloid and Interface Science*, **1983**, 18, 149-225	14.3	171
133	Application of the Hill's equation to describe the single-solute adsorption from dilute solutions on solids. *Journal of Colloid and Interface Science*, **1983**, 94, 573-576	9.3	11
132	Determination of Association Effects in TLC Data for Different Solutes Chromatographed in Methanol-Acetone on Silica Gel. *Journal of Liquid Chromatography and Related Technologies*, **1982**, 5, 1033-1042		10
131	Theory of Single-Solute and Bi-Solute Adsorption from Dilute Aqueous Solutions on Activated Carbon. *Studies in Environmental Science*, **1982**, 19, 361-368		3
130	Liquid-solid chromatography. Recent progress in theoretical studies concerning the dependence of the capacity ratio upon the mobile phase composition. *Journal of High Resolution Chromatography*, **1982**, 5, 3-12		53
129	A simple procedure for evaluating the heterogeneity parameter and the ratio of molecular sizes of solute and solvent by using HPLC data. *Journal of High Resolution Chromatography*, **1982**, 5, 368-372		2
128	Statistical thermodynamics of multilayer adsorption from binary mixtures onto homogeneous solid surfaces. *Thin Solid Films*, **1982**, 94, 79-88	2.2	8
127	Competitive adsorption of binary gas mixtures on energetically heterogeneous solids. *Thin Solid Films*, **1982**, 92, 385-392	2.2	1
126	Adsorption of mixtures of methane and krypton on CaA zeolite I: Analysis of the adsorption data using a Freundlich-type equation derived for constant mole fractions of components in the adsorption space. *Thin Solid Films*, **1982**, 88, 373-379	2.2	4

125	Surface heterogeneity effects in nitrogen adsorption on chemically modified aerosils II: Adsorptive energy distribution functions evaluated using numerical methods. *Thin Solid Films*, **1982**, 87, 323-335	2.2	14
124	Stochastic modelling of adsorption kinetics on solid surfaces I: Kinetics of localized monolayer gas adsorption on energetically heterogeneous surfaces without lateral interactions in the surface phase. *Thin Solid Films*, **1982**, 94, 365-371	2.2	5
123	Surface heterogeneity effects in nitrogen adsorption on chemically modified Aerosils III: Comparative discussion of adsorption energy distributions involving physical, mathematical and numerical aspects of their evaluation. *Thin Solid Films*, **1982**, 97, 369-379	2.2	19
122	Adsorption of gas mixtures on solids. *Journal of Colloid and Interface Science*, **1982**, 85, 457-462	9.3	11
121	Some remarks on Freundlich-type multicomponent isotherm. *Journal of Colloid and Interface Science*, **1982**, 86, 588-589	9.3	12
120	Application of a bilayer adsorption model for explaining the adsorption of esters fromn-heptane and benzene on silica gel. *Monatshefte F□ Chemie*, **1982**, 113, 925-932	1.4	13
119	A model of adsorption at liquid-solid interface involving association in the bulk phase. *Monatshefte F□ Chemie*, **1982**, 113, 669-680	1.4	17
118	Multilayer adsorption of alcohols from benzene/n-heptane mixtures on silica gel. *Monatshefte F□ Chemie*, **1982**, 113, 29-35	1.4	10
117	Application of excess adsorption data measured for components of the mobile phase for characterizing chromatographic systems. *Journal of the Chemical Society Faraday Transactions I*, **1981**, 77, 1277		28
116	Correlation between data of adsorption from binary and multicomponent liquid mixtures on solid surfaces. *AICHE Journal*, **1981**, 27, 524-525	3.6	4
115	Thin-layer adsorption chromatography with mixed mobile phases. 4. Extension of O□ik's equation to heterogeneous adsorbents. *Journal of High Resolution Chromatography*, **1981**, 4, 17-23		8
114	Correlation between excess adsorption data measured for solvent mixture/adsorbent systems and RM values obtained for different solutes chromatographed in binary mobile phases. *Journal of High Resolution Chromatography*, **1981**, 4, 74-78		14
113	Determination of solute-solvent association effects in liquid-solid chromatography with mixed mobile phases. *Journal of High Resolution Chromatography*, **1981**, 4, 89-90		12
112	Simple relationships for predicting multi-solute adsorption from dilute aqueous solutions. *Chemical Engineering Science*, **1981**, 36, 1017-1019	4.4	38
111	A simple model for the adsorption of mixtures on solids involving energetic heterogeneity of the surface and differences in molecular sizes of the components. *Thin Solid Films*, **1981**, 81, L97-L99	2.2	11
110	Effects of surface heterogeneity in liquid adsorption of ketones, esters and butanediols on silica gel. *Colloid and Polymer Science*, **1981**, 259, 398-401	2.4	5
109	Statistical thermodynamics of adsorption from multicomponent liquid mixtures on heterogeneous solid surfaces. *Monatshefte F□ Chemie*, **1981**, 112, 59-71	1.4	22
108	Multilayer adsorption from multicomponent liquid mixtures on solid surfaces. *Monatshefte F□ Chemie*, **1981**, 112, 175-185	1.4	16

107	Simple model of liquid-solid chromatography involving solute-solvent and solvent-solvent interactions. *Journal of Chromatography A*, **1981**, 210, 130-132	4.5	26
106	Surface heterogeneity effects in nitrogen adsorption on chemically modified aerosils I: Discussion of the energy distribution functions evaluated by using the condensation approximation method. *Thin Solid Films*, **1981**, 85, 87-96	2.2	21
105	The adsorbate-adsorbate association model in localized adsorption of gases on random heterogeneous surfaces. *Thin Solid Films*, **1981**, 75, 307-317	2.2	11
104	Mass transfer kinetics of mixed gas adsorption in porous media. *Thin Solid Films*, **1981**, 75, 347-353	2.2	3
103	A stochastic approach to the kinetics of adsorption from binary gas mixtures on homogeneous solid surfaces. *Thin Solid Films*, **1981**, 75, L11-L14	2.2	6
102	Partially mobile and partially localized monolayer films of gases on solid surfaces V: Application of the model to adsorption of simple gases on graphite and boron nitride. *Thin Solid Films*, **1981**, 76, 247-258	2.2	5
101	Application of Dubinin–Radushkevich–Type equation for describing bisolute adsorption from dilute aqueous solutions on activated carbon. *Journal of Colloid and Interface Science*, **1981**, 84, 191-195	9.3	34
100	Adsorption TLC with binary mobile phases. *Chromatographia*, **1981**, 14, 95-99	2.1	8
99	Dependence of the Capacity Ratio Upon Type of the Excess Adsorption Isotherm. *Journal of Liquid Chromatography and Related Technologies*, **1981**, 4, 227-236		4
98	A Model of Liquid Adsorption Chromatography Involving Solute-Solvent Interaction in the Mobile Phase, Energetic Heterogeneity of the Adsorbent, and Differences in Molecular Sizes of Solute and Solvents. *Journal of Liquid Chromatography and Related Technologies*, **1981**, 4, 2121-2145		28
97	Theory of adsorption from multicomponent liquid mixtures on solid surfaces and its application to liquid adsorption chromatography. *Journal of the Chemical Society Faraday Transactions I*, **1980**, 76, 2486		35
96	Adsorption of binary gas mixtures on solid surfaces with patchwise and random distribution of adsorption sites. *Colloid and Polymer Science*, **1980**, 258, 977-979	2.4	3
95	Prediction of the composition of a multicomponent surface phase by means of adsorption data of singles gases. *Thin Solid Films*, **1980**, 69, L25-L27	2.2	1
94	Prediction of TLC data for binary mobile phases by means of the RM-values obtained for single solvents. *Journal of High Resolution Chromatography*, **1980**, 3, 29-30		6
93	Thin-layer adsorption chromatography with mixed mobile phases. 3. Correlation between parameters characterizing the chromatographic systems with binary and ternary mobile phases. *Journal of High Resolution Chromatography*, **1980**, 3, 180-182		4
92	Effects of solute-solvent and solvent-solvent association in liquid adsorption chromatography with binary mobile phase. *Journal of High Resolution Chromatography*, **1980**, 3, 257-260		38
91	Adsorption of liquid mixtures by heterogeneous microporous solids. *Carbon*, **1980**, 18, 439-441	10.4	5
90	Liquid adsorption chromatography with mixed mobile phases. *Journal of Chromatography A*, **1980**, 188, 27-32	4.5	13

89	Effects of surface heterogeneity in adsorption from binary liquid mixtures. *Journal of Colloid and Interface Science*, **1980**, 73, 475-482	9.3	57
88	Effects of surface heterogeneity in adsorption from binary liquid mixtures. IV. Adsorption model with nonideal bulk phase and regular surface phase. *Journal of Colloid and Interface Science*, **1980**, 77, 571-573	9.3	18
87	Description of kinetics and equilibrium state of adsorption from multicomponent gas mixtures on solid surfaces. *Thin Solid Films*, **1980**, 71, 273-304	2.2	26
86	Partially mobile and partially localized monolayer films of gases on solid surfaces III: Comparison of two simple models. *Thin Solid Films*, **1980**, 67, 187-192	2.2	4
85	Partially mobile and partially localized monolayer films IV: Prediction of the temperature dependence of adsorption isotherms. *Thin Solid Films*, **1980**, 70, 363-371	2.2	5
84	The adsorbate-adsorbate association model in mixed gas adsorption on homogeneous solid surfaces. *Thin Solid Films*, **1980**, 69, 369-378	2.2	10
83	Liquid adsorption chromatography with mixed mobile phases. *Journal of Chromatography A*, **1979**, 179, 237-245	4.5	46
82	Liquid adsorption chromatography with mixed mobile phases. *Journal of Chromatography A*, **1979**, 178, 27-40	4.5	34
81	Liquid adsorption chromatography with a two-component mobile phase. *Journal of Chromatography A*, **1979**, 170, 299-307	4.5	19
80	Effects of lateral interactions and surface heterogeneity in kinetics of adsorption from multicomponent gas mixtures. *Thin Solid Films*, **1979**, 59, 249-254	2.2	7
79	A unified description of the kinetics of localized and mobile monolayer adsorption from the gaseous phase onto solid surfaces. *Thin Solid Films*, **1979**, 62, 237-246	2.2	8
78	Some remarks on the Berezin□Kiselev model of localized adsorption on homogeneous solid surfaces. *Journal of Colloid and Interface Science*, **1979**, 72, 344-346	9.3	5
77	Effects of surface heterogeneity in adsorption from binary liquid mixtures. *Journal of Colloid and Interface Science*, **1979**, 69, 287-300	9.3	40
76	Adsorption of multicomponent liquid mixtures on heterogeneous surfaces. *Journal of Colloid and Interface Science*, **1979**, 69, 311-317	9.3	31
75	Application of a partially mobile model of monolayer adsorption to multilayer phenomena. *Monatshefte F□ Chemie*, **1979**, 110, 601-606	1.4	3
74	Elovich-type equations for description of the adsorption rates of gas mixtures. *Journal of Catalysis*, **1979**, 57, 187-190	7.3	4
73	Determination of the capacity ratio and concentration-time function for stepwise elution with binary mobile phase with help of liquid chromatography data obtained from isocratic elution. *Chromatographia*, **1979**, 12, 29-32	2.1	6
72	Dependence of the distribution coefficient on the mobile phase composition in liquid adsorption chromatography. II. Analytical equations for the distribution coefficient involving non-ideality of the mobile phase and heterogeneity of the adsorbent surface. *Chromatographia*, **1979**, 12, 672-678	2.1	24

71	Supplementary note to the paper "General model of physical adsorption". *Surface Science*, **1979**, 81, L333-L336	1.8	2
70	Characterization of Chromatographic Systems with Ternary Mobile Phase. *Journal of Liquid Chromatography and Related Technologies*, **1979**, 2, 799-808		4
69	Thin-layer adsorption chromatography with mixed mobile phases. 1. Characterization of chromatographic systems showing energetic heterogeneity of adsorbent surfaces with regard to admolecules of solvents and solutes. *Journal of High Resolution Chromatography*, **1979**, 2, 236-242		10
68	Thin-layer adsorption chromatography with mixed mobile phases. 2. Effects of solute-solvent interactions and energetic heterogeneity of surfaces with regard to admolecules in TLC. *Journal of High Resolution Chromatography*, **1979**, 2, 524-526		4
67	On the exponential absorption isotherm. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1978**, 67, 309-310	2.3	11
66	Current state and perspectives of developments in the theory of mixed-gas adsorption on solid surfaces. *Thin Solid Films*, **1978**, 50, 163-169	2.2	32
65	Dependence of the capacity ratio on the composition of the binary mobile phase in liquid–solid adsorption chromatography. *Journal of Chromatography A*, **1978**, 157, 1-5	4.5	18
64	Studies of chromatographic packings comprising porous polymers. *Journal of Chromatography A*, **1978**, 157, 119-124	4.5	4
63	Gradient optimization in elution liquid chromatography. *Journal of Chromatography A*, **1978**, 153, 309-319	4.5	24
62	Gradient optimization in elution liquid chromatography. *Journal of Chromatography A*, **1978**, 153, 321-328	4.5	19
61	Numerical studies of gas adsorption on heterogeneous solid surfaces by using the model of associated adsorbate. *Journal of Colloid and Interface Science*, **1978**, 63, 362-368	9.3	16
60	Adsorption of gas mixtures on heterogeneous surfaces. *Journal of Colloid and Interface Science*, **1978**, 65, 9-18	9.3	25
59	Dependence of the capacity ratio on mobile phase composition in liquid adsorption chromatography. *Chromatographia*, **1978**, 11, 581-585	2.1	45
58	On Ritchie's equation for adsorption kinetics of gases on solids. *Reaction Kinetics and Catalysis Letters*, **1978**, 9, 309-313		6
57	A new approach to the adsorption kinetics of gas mixtures on heterogeneous surfaces. *Reaction Kinetics and Catalysis Letters*, **1978**, 8, 425-429		13
56	A theoretical isotherm for adsorption on heterogeneous surface. *Colloid and Polymer Science*, **1978**, 256, 471-477	2.4	21
55	Adsorption of gas mixtures on heterogeneous solid surfaces. *Colloid and Polymer Science*, **1978**, 256, 690-695	2.4	6
54	Adsorption of gas mixtures on homogeneous solid surfaces I. Model of double associates for adsorption of binary mixtures. *Colloid and Polymer Science*, **1978**, 256, 1089-1094	2.4	12

53	Two-dimensional mobile films of gases on solids: Adaptation of three-dimensional equations of state to physical adsorption of single gases on homogeneous surfaces. *The Chemical Engineering Journal*, **1978**, 15, 147-157		8
52	Monolayer films of gases on solids composed of patches covered by mobile and localized adsorbed molecules. *Thin Solid Films*, **1978**, 50, L21-L23	2.2	6
51	Partially mobile and partially localized monolayer films II: Adsorption of binary gas mixtures on solids. *Thin Solid Films*, **1978**, 52, 305-311	2.2	8
50	Continuous TLC as a pilot technique for optimization of gradient HPLC. 1. Theoretical considerations for stepwise gradient TLC with binary mobile phase. *Journal of High Resolution Chromatography*, **1978**, 1, 245-249		22
49	Partially mobile and partially localized monolayer films I: Adsorption of single gases on solids. *Thin Solid Films*, **1978**, 52, 295-304	2.2	5
48	General model of physical adsorption: Monomolecular adsorption of single gases on homogeneous solid surfaces. *Surface Science*, **1978**, 77, 365-377	1.8	5
47	Consequences of assuming the Bragg-Williams approximation in mixed-gas adsorption. *Surface Science*, **1978**, 78, L501-L503	1.8	13
46	General formulation of kinetics of mixed-gas adsorption on heterogeneous solid surfaces. *Journal of the Chemical Society, Faraday Transactions 2*, **1978**, 74, 1292		10
45	Statistical thermodynamics of mixed-gas adsorption. Localized monolayer adsorption on heterogeneous surfaces. *Journal of the Chemical Society, Faraday Transactions 2*, **1977**, 73, 933		24
44	Supplementary note to the paper □dsorption of gas mixtures on heterogeneous surfaces□*Surface Science*, **1977**, 66, 652-654	1.8	7
43	Some remarks on the characterization of gas-solid chromatographic systems. *Journal of Chromatography A*, **1977**, 133, 349-351	4.5	1
42	Determination of the isosteric heat of adsorption by gas adsorption chromatography. *Journal of Chromatography A*, **1977**, 131, 1-5	4.5	3
41	Studies of chromatographic packings comprising chemically bonded phases obtained from porous glass beads. *Journal of Chromatography A*, **1977**, 131, 7-18	4.5	14
40	Adsorption of gas mixtures on heterogeneous surfaces. *Journal of Colloid and Interface Science*, **1977**, 59, 230-242	9.3	18
39	Adsorption of gas mixtures on heterogeneous surfaces. *Journal of Colloid and Interface Science*, **1977**, 59, 371-375	9.3	13
38	On the microporous structure of glass beads. *Chromatographia*, **1977**, 10, 191-193	2.1	3
37	On the characterization of microporous adsorbents. *Carbon*, **1977**, 15, 107-111	10.4	12
36	On the Gonzalez-Holland model for adsorption of gas mixtures. *AICHE Journal*, **1977**, 23, 605-607	3.6	8

35	Extension of the model of associated adsorbate to adsorption on patchwise heterogeneous surfaces. *Thin Solid Films*, **1977**, 46, 239-247	2.2	7
34	Adsorption of gas mixtures on heterogeneous solid surfaces II. Adsorption isotherms for gaseous mixtures whose pure-gas isotherms show the Freundlich, Tﾨh and Langmuir behaviours. *Colloid and Polymer Science*, **1977**, 255, 32-34	2.4	18
33	Adsorption on heterogeneous surfaces: Consequence of assuming the Jovanovi equation for local adsorption. *Colloid and Polymer Science*, **1977**, 255, 374-378	2.4	5
32	A simple procedure for obtaining adsorption isotherms of gas mixtures on heterogeneous surfaces. *Colloid and Polymer Science*, **1977**, 255, 176-177	2.4	7
31	Some remarks on the maximum adsorption energy. *Surface Science*, **1976**, 54, 189-193	1.8	6
30	Studies of energetic heterogeneity of adsorbents by liquid chromatography. *Chromatographia*, **1976**, 9, 143-147	2.1	2
29	Analytical expressions for the retention volume in gas adsorption chromatography. *Chromatographia*, **1976**, 9, 161-167	2.1	27
28	Statistical interpretation of the Jovanovi adsorption isotherms. *Colloid and Polymer Science*, **1976**, 254, 601-605	2.4	18
27	Adsorption of gas mixtures on heterogeneous solid surfaces: I. Extension of Tﾨh isotherm on adsorption from gas mixtures. *Colloid and Polymer Science*, **1976**, 254, 643-649	2.4	45
26	Physisorption of gaseous and liquid mixtures on real solid surfaces. *Journal of Low Temperature Physics*, **1976**, 24, 253-259	1.3	10
25	Thermodynamics of localized and non-localized adsorption on patchwise heterogeneous surfaces. *Thin Solid Films*, **1976**, 37, L43-L47	2.2	8
24	Adsorption parameters and the form of the energy distribution function - a discussion. *Thin Solid Films*, **1976**, 31, 321-328	2.2	25
23	Multilayer adsorption of binary gas mixtures on heterogeneous solid surfaces. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1976**, 56, 53-54	2.3	10
22	Study on the possibility of determining the adsorbent heterogeneity by using the exponential adsorption isotherm. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1976**, 59, 259-260	2.3	9
21	Effects of surface heterogeneity in adsorption from binary liquid mixtures. I. Adsorption from ideal solutions. *Journal of Colloid and Interface Science*, **1976**, 56, 403-411	9.3	71
20	Analogy between gas adsorption and liquid adsorption chromatography. *Journal of Chromatography A*, **1976**, 117, 11-21	4.5	16
19	Determination of the pre-exponential factor of Henry's constant by gas adsorption chromatography. *Journal of Chromatography A*, **1976**, 121, 185-198	4.5	29
18	Application of Gas-Adsorption Chromatography Data to Investigation of the Adsorptive Properties of Adsorbents. *Separation Science*, **1976**, 11, 29-37		11

17	Some Remarks on Application of Gas-Adsorption Chromatography Data for Investigations of the Adsorptive Properties of Adsorbents. *Separation Science*, **1976**, 11, 411-415		3
16	Gas adsorption on heterogeneous surfaces: A detailed computation of adsorption energy distribution. *European Physical Journal D*, **1975**, 25, 891-901		23
15	Studies on energetic heterogeneity of adsorbents by means of liquid chromatography. *Chromatographia*, **1975**, 8, 234-239	2.1	13
14	Determination of energy distribution function from observed adsorption isotherms. *Colloid and Polymer Science*, **1975**, 253, 164-166	2.4	53
13	General method for evaluating the energy distribution function from the observed adsorption isotherm. *Colloid and Polymer Science*, **1975**, 253, 683-685	2.4	16
12	Adsorption of binary gas mixtures on heterogeneous surfaces. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1975**, 53, 59-60	2.3	25
11	A modification of the chromatographic Hobson method for studying heterogeneity of adsorbents. *Journal of Chromatography A*, **1975**, 110, 381-384	4.5	11
10	Adsorption of gas mixtures on heterogeneous surfaces. Analytical solution of integral equation for jovanovic adsorption isotherm. *Journal of Colloid and Interface Science*, **1975**, 53, 422-428	9.3	28
9	Adsorption of gas mixtures on heterogeneous surfaces adsorption of carbon dioxide and xenon on aluminum oxide. *Journal of Colloid and Interface Science*, **1975**, 52, 41-45	9.3	23
8	Adsorption of gas mixtures on heterogeneous surfaces: The integral representation for a monolayer total adsorption isotherm. *Surface Science*, **1975**, 52, 641-652	1.8	24
7	Investigation of solutions of the integral adsorption equation in respect to the range of integration of the adsorption energy. *Surface Science*, **1975**, 47, 429-439	1.8	29
6	Adsorption on heterogeneous surfaces: The exponential equation for the overall adsorption isotherm. *Surface Science*, **1975**, 50, 553-564	1.8	149
5	New possibilities of investigating adsorption phenomena by gas chromatography: Estimation of adsorbent heterogeneity from the pressure dependence of retention data. *Chromatographia*, **1974**, 7, 663-668	2.1	21
4	Adsorption on heterogeneous surfaces. *Surface Science*, **1974**, 42, 552-564	1.8	47
3	A new isotherm equation for multilayer adsorption on heterogeneous surfaces yielding the Dubinin-Radushkevich isotherm in the submonolayer region. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1974**, 48, 171-172	2.3	20
2	Graphical estimation of adsorbent heterogeneity. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1972**, 41, 449-450	2.3	15
1	Photocatalytic CO2 Reduction: Identification and Elimination of False-Positive Results. *ACS Energy Letters*,1611-1617	20.1	2