Alexander V Neimark

List of Publications by Citations

208 papers	22,596 citations	63 h-index	149 g-index
225 ext. papers	26,001 ext. citations	5.6 avg, IF	7.18 L-index

#	Paper	IF	Citations
208	Physisorption of gases, with special reference to the evaluation of surface area and pore size distribution (IUPAC Technical Report). *Pure and Applied Chemistry*, **2015**, 87, 1051-1069	2.1	7465
207	Density functional theory methods for characterization of porous materials. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 437, 3-32	5.1	723
206	Quenched solid density functional theory and pore size analysis of micro-mesoporous carbons. *Carbon*, **2009**, 47, 1617-1628	10.4	611
205	Unified Approach to Pore Size Characterization of Microporous Carbonaceous Materials from N2, Ar, and CO2 Adsorption Isotherms *Langmuir*, **2000**, 16, 2311-2320	4	569
204	Density Functional Theory of Adsorption in Spherical Cavities and Pore Size Characterization of Templated Nanoporous Silicas with Cubic and Three-Dimensional Hexagonal Structures. *Langmuir*, **2002**, 18, 1550-1560	4	464
203	Adsorption hysteresis of nitrogen and argon in pore networks and characterization of novel micro- and mesoporous silicas. *Langmuir*, **2006**, 22, 756-64	4	445
202	Characterization of Micro- and Mesoporosity in SBA-15 Materials from Adsorption Data by the NLDFT Method. *Journal of Physical Chemistry B*, **2001**, 105, 6817-6823	3.4	445
201	Capillary Hysteresis in Nanopores: Theoretical and Experimental Studies of Nitrogen Adsorption on MCM-41. *Langmuir*, **1995**, 11, 4765-4772	4	413
200	Experimental Confirmation of Different Mechanisms of Evaporation from Ink-Bottle Type Pores: Equilibrium, Pore Blocking, and Cavitation. *Langmuir*, **2002**, 18, 9830-9837	4	408
199	Evaluation of Pore Structure Parameters of MCM-41 Catalyst Supports and Catalysts by Means of Nitrogen and Argon Adsorption. *Journal of Physical Chemistry B*, **1997**, 101, 3671-3679	3.4	357
198	Capillary condensation in MMS and pore structure characterization. *Microporous and Mesoporous Materials*, **2001**, 44-45, 697-707	5.3	326
197	Characterization of nanoporous materials from adsorption and desorption isotherms. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2001**, 187-188, 11-21	5.1	326
196	Quenched solid density functional theory method for characterization of mesoporous carbons by nitrogen adsorption. *Carbon*, **2012**, 50, 1583-1590	10.4	311
195	Nanopore Structure and Sorption Properties of Cu BTC Metal Organic Framework. *Nano Letters*, **2003**, 3, 713-718	11.5	309
194	Density functional theory model for calculating pore size distributions: pore structure of nanoporous catalysts. *Advances in Colloid and Interface Science*, **1998**, 76-77, 203-226	14.3	293
193	Pore Size Analysis of MCM-41 Type Adsorbents by Means of Nitrogen and Argon Adsorption. *Journal of Colloid and Interface Science*, **1998**, 207, 159-169	9.3	285
192	Sorption hysteresis of benzene in charcoal particles. *Environmental Science & Technology*, **2003**, 37, 409-17	10.3	282

191	A New Templated Ordered Structure with Combined Micro- and Mesopores and Internal Silica Nanocapsules. *Journal of Physical Chemistry B*, **2002**, 106, 5873-5877	3.4	267
190	Density functional theory model of adsorption on amorphous and microporous silica materials. *Langmuir*, **2006**, 22, 11171-9	4	264
189	Density functional theories and molecular simulations of adsorption and phase transitions in nanopores. *Physical Review E*, **2001**, 64, 011602	2.4	249
188	Molecular Level Models for CO2 Sorption in Nanopores. *Langmuir*, **1999**, 15, 8736-8742	4	247
187	Characterization of MCM-48 Materials. *Langmuir*, **2000**, 16, 4648-4654	4	237
186	Adsorption hysteresis in nanopores. *Physical Review E*, **2000**, 62, R1493-6	2.4	205
185	Stress-Based Model for the Breathing of Metal-Organic Frameworks. *Journal of Physical Chemistry Letters*, **2010**, 1, 445-9	6.4	187
184	Molecular Dynamics Simulation of Microstructure and Molecular Mobilities in Swollen Nafion Membranes. *Journal of Physical Chemistry B*, **2001**, 105, 9586-9594	3.4	178
183	Extra adsorption and adsorbate superlattice formation in metal-organic frameworks. *Nature*, **2015**, 527, 503-7	50.4	176
182	The Behavior of Flexible MIL-53(Al) upon CH4 and CO2 Adsorption. *Journal of Physical Chemistry C*, **2010**, 114, 22237-22244	3.8	171
181	Molecular Simulation Study of Nafion Membrane Solvation in Water and Methanol. *Journal of Physical Chemistry B*, **2000**, 104, 4471-4478	3.4	169
180	Bridging scales from molecular simulations to classical thermodynamics: density functional theory of capillary condensation in nanopores. *Journal of Physics Condensed Matter*, **2003**, 15, 347-365	1.8	154
179	Cavitation in metastable liquid nitrogen confined to nanoscale pores. *Langmuir*, **2010**, 26, 10147-57	4	153
178	Calibration of Pore Volume in Adsorption Experiments and Theoretical Models. *Langmuir*, **1997**, 13, 5148-5160	4	143
177	Gauge cell method for simulation studies of phase transitions in confined systems. *Physical Review E*, **2000**, 62, 4611-22	2.4	132
176	Structural transitions in MIL-53 (Cr): view from outside and inside. *Langmuir*, **2011**, 27, 4734-41	4	125
175	Monte Carlo Simulation Test of Pore Blocking Effects. *Langmuir*, **2003**, 19, 3240-3247	4	125
174	Molecular Dynamics Simulation of Nafion Oligomer Solvation in Equimolar Methanol–Water Mixture. *Journal of Physical Chemistry B*, **2001**, 105, 7830-7834	3.4	124

173	Adsorption Deformation and Structural Transitions in Metal–Organic Frameworks: From the Unit Cell to the Crystal. *Journal of Physical Chemistry Letters*, **2013**, 4, 3198-3205	6.4	121
172	Density functional theory model of adsorption deformation. *Langmuir*, **2006**, 22, 10864-8	4	121
171	Adsorption-induced deformation of mesoporous solids. *Langmuir*, **2010**, 26, 13021-7	4	118
170	A new approach to the determination of the surface fractal dimension of porous solids. *Physica A: Statistical Mechanics and Its Applications*, **1992**, 191, 258-262	3.3	116
169	Studies of Liquid–Vapor Equilibria, Criticality, and Spinodal Transitions in Nanopores by the Gauge Cell Monte Carlo Simulation Method. *Journal of Physical Chemistry B*, **2001**, 105, 7009-7020	3.4	115
168	Adsorption-induced deformation of microporous carbons: pore size distribution effect. *Langmuir*, **2008**, 24, 6603-8	4	112
167	Prediction of the Critical Micelle Concentration of Nonionic Surfactants by Dissipative Particle Dynamics Simulations. *Journal of Physical Chemistry Letters*, **2013**, 4, 797-802	6.4	109
166	Liquid intrusion and alternative methods for the characterization of macroporous materials (IUPAC Technical Report). *Pure and Applied Chemistry*, **2011**, 84, 107-136	2.1	108
165	Relations between Structural Parameters and Adsorption Characterization of Templated Nanoporous Materials with Cubic Symmetry. *Langmuir*, **2000**, 16, 2419-2423	4	105
164	Adsorption of nitrogen, neopentane, n-hexane, benzene and methanol for the evaluation of pore sizes in silica grades of MCM-41. *Microporous and Mesoporous Materials*, **2001**, 47, 323-337	5.3	99
163	Calculating Surface Fractal Dimensions of Adsorbents. *Adsorption Science and Technology*, **1990**, 7, 210-219	3.9	85
162	Nucleation of liquid bridges and bubbles in nanoscale capillaries. *Journal of Chemical Physics*, **2003**, 119, 9755-9764	3.9	81
161	Characterization of the pore structure of three-dimensionally ordered mesoporous carbons using high resolution gas sorption. *Langmuir*, **2012**, 28, 12647-54	4	79
160	Calculations of critical micelle concentration by dissipative particle dynamics simulations: the role of chain rigidity. *Journal of Physical Chemistry B*, **2013**, 117, 10304-10	3.4	77
159	Biohybrid Carbon Nanotube/Agarose Fibers for Neural Tissue Engineering. *Advanced Functional Materials*, **2011**, 21, 2624-2632	15.6	74
158	Adsorption-induced deformation of mesoporous solids: macroscopic approach and density functional theory. *Langmuir*, **2011**, 27, 6926-31	4	72
157	Thermodynamic equilibrium and stability of liquid films and droplets on fibers. *Journal of Adhesion Science and Technology*, **1999**, 13, 1137-1154	2	72
156	Deformation of Coal Induced by Methane Adsorption at Geological Conditions. *Energy & Fuels*, **2010**, 24, 5955-5964	4.1	69

155	Characterization of micro-mesoporous materials from nitrogen and toluene adsorption: experiment and modeling. *Langmuir*, **2006**, 22, 513-6	4	68
154	Adsorption induced transitions in soft porous crystals: an osmotic potential approach to multistability and intermediate structures. *Journal of Chemical Physics*, **2013**, 138, 174706	3.9	67
153	Difference between magainin-2 and melittin assemblies in phosphatidylcholine bilayers: results from coarse-grained simulations. *Journal of Physical Chemistry B*, **2012**, 116, 3021-30	3.4	67
152	Method of Discrimination of Surface Fractality. *Journal of Colloid and Interface Science*, **1993**, 158, 412-419	3.3	67
151	Hierarchical Pore Structure and Wetting Properties of Single-Wall Carbon Nanotube Fibers. *Nano Letters*, **2003**, 3, 419-423	11.5	65
150	Spontaneous Penetration of Liquids into Capillaries and Porous Membranes Revisited. *Journal of Colloid and Interface Science*, **2001**, 235, 101-113	9.3	64
149	Inside the hysteresis loop: multiplicity of internal states in confined fluids. *Physical Review E*, **2002**, 65, 031505	2.4	64
148	Self-assembly in Nafion membranes upon hydration: water mobility and adsorption isotherms. *Journal of Physical Chemistry B*, **2014**, 118, 11353-64	3.4	63
147	Mechanism of Breathing Transitions in Metal□Organic Frameworks. *Journal of Physical Chemistry Letters*, **2011**, 2, 2033-2037	6.4	63
146	Foam in porous media: thermodynamic and hydrodynamic peculiarities. *Advances in Colloid and Interface Science*, **1999**, 82, 127-187	14.3	63
145	Modeling Aggregation of Ionic Surfactants Using a Smeared Charge Approximation in Dissipative Particle Dynamics Simulations. *Journal of Physical Chemistry B*, **2015**, 119, 11673-83	3.4	62
144	Experimental and theoretical studies of scanning adsorption□desorption isotherms. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 437, 76-89	5.1	61
143	Phase transitions and criticality in small systems: vapor-liquid transition in nanoscale spherical cavities. *Journal of Physical Chemistry B*, **2006**, 110, 9403-12	3.4	59
142	Simultaneous Transport of Water and Organic Molecules through Polyelectrolyte Membranes. *Journal of Physical Chemistry B*, **2004**, 108, 8900-8909	3.4	59
141	Adsorption of n-pentane on mesoporous silica and adsorbent deformation. *Langmuir*, **2013**, 29, 8601-8	4	58
140	The characterization of macroporous solids: An overview of the methodology. *Microporous and Mesoporous Materials*, **2012**, 154, 2-6	5.3	56
139	DPD Simulation of Protein Conformations: From □Helices to □Structures. *Journal of Physical Chemistry Letters*, **2012**, 3, 3081-7	6.4	53
138	The birth of a bubble: a molecular simulation study. *Journal of Chemical Physics*, **2005**, 122, 54707	3.9	52

137	The Method of Indeterminate Lagrange Multipliers in Nonlocal Density Functional Theory. *Langmuir*, **1995**, 11, 4183-4184	4	51
136	Argon Adsorption on MCM-41 Mesoporous Crystal Studied by In Situ Synchrotron Powder X-ray Diffraction. *Journal of Physical Chemistry C*, **2008**, 112, 10803-10813	3.8	50
135	Melittin creates transient pores in a lipid bilayer: results from computer simulations. *Journal of Physical Chemistry B*, **2013**, 117, 5031-42	3.4	47
134	Fractal analysis of the distribution of high-viscosity fluids in porous supports. *The Journal of Physical Chemistry*, **1993**, 97, 6011-6015		47
133	Capillary condensation as a morphological transition. *Advances in Colloid and Interface Science*, **2002** , 96, 143-67	14.3	43
132	Calculations of pore size distributions in nanoporous materials from adsorption and desorption isotherms. *Studies in Surface Science and Catalysis*, **2000**, 129, 597-606	1.8	43
131	Specifics of freezing of Lennard-Jones fluid confined to molecularly thin layers. *Journal of Chemical Physics*, **2003**, 118, 7585	3.9	42
130	Nitrogen and carbon dioxide adsorption by soils. *Environmental Science & Technology*, **2005**, 39, 4990-5	6.3	41
129	A simulation method for the calculation of chemical potentials in small, inhomogeneous, and dense systems. *Journal of Chemical Physics*, **2005**, 122, 234108	3.9	41
128	Deformation of Microporous Carbons during N2, Ar, and CO2 Adsorption: Insight from the Density Functional Theory. *Langmuir*, **2016**, 32, 8265-74	4	40
127	Carbon nanotube fibers are compatible with Mammalian cells and neurons. *IEEE Transactions on Nanobioscience*, **2008**, 7, 11-4	3.4	40
126	Adsorption-Induced Deformation of Hierarchically Structured Mesoporous Silica-Effect of Pore-Level Anisotropy. *Langmuir*, **2017**, 33, 5592-5602	4	38
125	Insight into the Effect of Dealumination on Mordenite Using Experimentally Validated Simulations. *Journal of Physical Chemistry C*, **2010**, 114, 2056-2065	3.8	37
124	Density Functional Theory of in Situ Synchrotron Powder X-ray Diffraction on Mesoporous Crystals: Argon Adsorption on MCM-41. *Journal of Physical Chemistry C*, **2009**, 113, 791-794	3.8	37
123	Deformation of Microporous Carbon during Adsorption of Nitrogen, Argon, Carbon Dioxide, and Water Studied by in Situ Dilatometry. *Langmuir*, **2015**, 31, 12512-9	4	35
122	Coarse-grained model of nanoscale segregation, water diffusion, and proton transport in Nafion membranes. *Journal of Chemical Physics*, **2018**, 148, 024108	3.9	34
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120	Absorption and transport properties of ultra-fine cellulose webs. *Journal of Colloid and Interface Science*, **2011**, 353, 290-3	9.3	34

119	Specifics of solvation of sulfonated polyelectrolytes in water, dimethylmethylphosphonate, and their mixture: a molecular simulation study. *Journal of Chemical Physics*, **2008**, 128, 164902	3.9	34
118	Characterization of Worm-Like Micro- and Mesoporous Silicas by Small-Angle Scattering and High-Resolution Adsorption Porosimetry. *Adsorption*, **2005**, 11, 653-655	2.6	34
117	Shock wave interaction with a phospholipid membrane: coarse-grained computer simulations. *Journal of Chemical Physics*, **2014**, 140, 054906	3.9	33
116	Evidence of Large Voids in Pure-Silica-Zeolite Low-k Dielectrics Synthesized by Spin-on of Nanoparticle Suspensions. *Advanced Materials*, **2008**, 20, 3110-3116	24	33
115	Monte Carlo simulation study of droplet nucleation. *Journal of Chemical Physics*, **2005**, 122, 174508	3.9	32
114	Statistical geometry of cavities in a metastable confined fluid. *Physical Review E*, **2000**, 62, 538-44	2.4	32
113	Determination of Isosteric Heat of Adsorption by Quenched Solid Density Functional Theory. *Langmuir*, **2017**, 33, 1769-1779	4	31
112	Carbon nanotube composites as multifunctional substrates for in situ actuation of differentiation of human neural stem cells. *Advanced Healthcare Materials*, **2014**, 3, 1745-52	10.1	31
111	A model for polybutadiene coatings on porous silica. *Chromatographia*, **1993**, 35, 403-409	2.1	31
110	Oxygen incorporation in rubrene single crystals. *Scientific Reports*, **2014**, 4, 4753	4.9	30
109	Coarse-grained model of water diffusion and proton conductivity in hydrated polyelectrolyte membrane. *Journal of Chemical Physics*, **2016**, 144, 014902	3.9	30
108	Percolation Theory of Capillary Hysteresis Phenomena and Its Application for Characterization of Porous Solids. *Studies in Surface Science and Catalysis*, **1991**, 62, 67-74	1.8	29
107	Using in-situ adsorption dilatometry for assessment of micropore size distribution in monolithic carbons. *Carbon*, **2016**, 103, 263-272	10.4	28
106	Advanced Physical Adsorption Characterization of Nanoporous Carbons **2012**, 107-145		28
105	Understanding adsorption-induced structural transitions in metal-organic frameworks: from the unit cell to the crystal. *Journal of Chemical Physics*, **2012**, 137, 184702	3.9	27
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103	Morphological transformations in polymer brushes in binary mixtures: DPD study. *Langmuir*, **2014**, 30, 12932-40	4	25
102	Polymer translocation through a nanopore: DPD study. *Journal of Physical Chemistry B*, **2013**, 117, 3648-58	3.4	25

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100	Modeling of spontaneous penetration of viscoelastic fluids and biofluids into capillaries. *Journal of Colloid and Interface Science*, **2003**, 262, 253-62	9.3	25
99	Molecular Model of Dimethylmethylphosphonate and Its Interactions with Water. *Journal of Physical Chemistry A*, **2004**, 108, 1435-1439	2.8	25
98	Vapor-to-droplet transition in a Lennard-Jones fluid: simulation study of nucleation barriers using the ghost field method. *Journal of Physical Chemistry B*, **2005**, 109, 5962-76	3.4	24
97	Diffusion-Controlled Hysteresis. *Adsorption*, **2005**, 11, 265-270	2.6	23
96	Extended Characterization of Combustion-Generated Aggregates: Self-Affinity and Lacunarities. *Journal of Colloid and Interface Science*, **1996**, 180, 590-597	9.3	23
95	Parametrization of Chain Molecules in Dissipative Particle Dynamics. *Journal of Physical Chemistry B* , **2016**, 120, 4980-91	3.4	23
94	Deciphering the Relations between Pore Structure and Adsorption Behavior in Metal-Organic Frameworks: Unexpected Lessons from Argon Adsorption on Copper-Benzene-1,3,5-tricarboxylate. *Journal of the American Chemical Society*, **2019**, 141, 8397-8401	16.4	22
93	Capillary condensation hysteresis in overlapping spherical pores: a Monte Carlo simulation study. *Langmuir*, **2012**, 28, 12100-7	4	22
92	Self-assembly in block polyelectrolytes. *Journal of Chemical Physics*, **2011**, 134, 054104	3.9	22
91	Super-sieving effect in phenol adsorption from aqueous solutions on nanoporous carbon beads. *Carbon*, **2018**, 135, 12-20	10.4	21
90	Phase Behavior and Capillary Condensation Hysteresis of Carbon Dioxide in Mesopores. *Langmuir*, **2019**, 35, 11291-11298	4	21
89	Molecular simulation aided nanoporous carbon design for highly efficient low-concentrated formaldehyde capture. *Carbon*, **2017**, 124, 152-160	10.4	21
88	Morphologically disordered pore model for characterization of micro-mesoporous carbons. *Carbon*, **2017**, 111, 358-370	10.4	21
87	Solvation forces between molecularly rough surfaces. *Journal of Colloid and Interface Science*, **2011**, 362, 382-8	9.3	21
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84	Screening of carbonaceous nanoporous materials for capture of nerve agents. *Physical Chemistry Chemical Physics*, **2013**, 15, 291-8	3.6	20

83	Density Functional Theory of Adsorption Hysteresis and Nanopore Characterization. *Studies in Surface Science and Catalysis*, **2000**, 51-60	1.8	20
82	Interactions of phosphororganic agents with water and components of polyelectrolyte membranes. *Journal of Physical Chemistry B*, **2011**, 115, 13617-23	3.4	19
81	Adsorption-driven translocation of polymer chain into nanopores. *Journal of Chemical Physics*, **2012**, 136, 214901	3.9	19
80	Spontaneous adsorption of viscous and viscoelastic fluids by capillaries and porous substrates. *Journal of Colloid and Interface Science*, **2003**, 262, 16-24	9.3	19
79	Polyoxometalate hybrid catalyst for detection and photodecomposition of mustard gas surrogate vapors. *Applied Surface Science*, **2019**, 467-468, 428-438	6.7	19
78	Monte Carlo simulation of cavitation in pores with nonwetting defects. *Langmuir*, **2012**, 28, 4702-11	4	18
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76	Molecular dynamics simulation of nanoscale distribution and mobility of water and dimethylmethylphosphonate in sulfonated polystyrene. *Journal of Physical Chemistry B*, **2008**, 112, 14905-10	3.4	18
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74	Adhesion of nanoparticles to polymer brushes studied with the ghost tweezers method. *Journal of Chemical Physics*, **2015**, 142, 034705	3.9	17
73	The Wicking Kinetics of Liquid Droplets into Yarns. *Textile Reseach Journal*, **2001**, 71, 862-869	1.7	17
72	Translocation dynamics of freely jointed Lennard-Jones chains into adsorbing pores. *Journal of Chemical Physics*, **2012**, 137, 144903	3.9	16
71	Ribbon-to-fiber transformation in the process of spinning of carbon-nanotube dispersion. *Physical Review Letters*, **2006**, 97, 188303	7.4	16
70	Molecular modeling of organophosphorous agents and their aqueous solutions. *Journal of Physical Chemistry A*, **2011**, 115, 5201-9	2.8	15
69	Elucidating the Effects of Metal Complexation on Morphological and Rheological Properties of Polymer Solutions by a Dissipative Particle Dynamics Model. *Macromolecules*, **2018**, 51, 4987-5000	5.5	15
68	Bioactive Agarose Carbon-Nanotube Composites are Capable of Manipulating Brain-Implant Interface. *Journal of Applied Polymer Science*, **2014**, 131,	2.9	14
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61	In Situ Growth and Characterization of Metal Oxide Nanoparticles within Polyelectrolyte Membranes. *Angewandte Chemie - International Edition*, **2016**, 55, 11522-7	16.4	12
60	Calculation of chemical potentials of chain molecules by the incremental gauge cell method. *Journal of Chemical Physics*, **2011**, 135, 214109	3.9	12
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58	Analysis of the drying stage in the technology of supported catalysts. *Reaction Kinetics and Catalysis Letters*, **1976**, 5, 67-72		12
57	Adhesion of Phospholipid Bilayers to Hydroxylated Silica: Existence of Nanometer-Thick Water Interlayers. *Langmuir*, **2017**, 33, 13148-13156	4	11
56	Pore opening and breathing transitions in metal-organic frameworks: Coupling adsorption and deformation. *Journal of Colloid and Interface Science*, **2020**, 578, 77-88	9.3	11
55	Adsorption deformation of microporous composites. *Dalton Transactions*, **2016**, 45, 4136-40	4.3	11
54	Potential Theory of Adsorption and Adsorbate Compressibility. *Journal of Colloid and Interface Science*, **1994**, 165, 91-96	9.3	11
53	Modeling Gas-Liquid Interfaces by Dissipative Particle Dynamics: Adsorption and Surface Tension of Cetyl Trimethyl Ammonium Bromide at the Air-Water Interface. *Langmuir*, **2020**, 36, 14686-14698	4	11
52	Mechanical Characterization of Hierarchical Structured Porous Silica by in Situ Dilatometry Measurements during Gas Adsorption. *Langmuir*, **2019**, 35, 2948-2956	4	10
51	Structural mechanism of reactivation with steam of pitch-based activated carbon fibers. *Journal of Colloid and Interface Science*, **2020**, 578, 422-430	9.3	10
50	Local pressure changes in lipid bilayers due to adsorption of melittin and magainin-h2 antimicrobial peptides: results from computer simulations. *Journal of Physical Chemistry B*, **2014**, 118, 12673-9	3.4	10
49	Positive curvature effects and interparticle capillary condensation during nitrogen adsorption in particulate porous materials. *Journal of Colloid and Interface Science*, **2007**, 314, 415-21	9.3	10
48	Classification of Equilibrium Configurations of Wetting Films on Planar Substrates. *Langmuir*, **2000**, 16, 5526-5529	4	10

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46	Electrophysical properties of metal-solid-electrolyte composites. *Physical Review B*, **1995**, 52, 927-938	3.3	10
45	Characterization of self-affinity in the global regime. *Physical Review B*, **1994**, 50, 15435-15438	3.3	10
44	Pore size characterization of micro-mesoporous carbons using CO2 adsorption. *Carbon*, **2021**, 173, 842-848	10.4	10
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40	Surface Area and Porosity **2008**, 721		9
39	Disordered Mesoporous Zirconium (Hydr)oxides for Decomposition of Dimethyl Chlorophosphate. *ACS Applied Materials & Interfaces*, **2019**, 11, 17931-17939	9.5	8
38	Coupling Structural and Adsorption Properties of Metal-Organic Frameworks: From Pore Size Distribution to Pore Type Distribution. *ACS Applied Materials & Interfaces*, **2020**, 12, 15595-15605	9.5	8
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36	Nanoporosity Change on Elastic Relaxation of Partially Folded Graphene Monoliths. *Langmuir*, **2017**, 33, 14565-14570	4	8
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34	Mechanisms of chain adsorption on porous substrates and critical conditions of polymer chromatography. *Journal of Colloid and Interface Science*, **2016**, 481, 181-93	9.3	7
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32	Interactions of sarin with polyelectrolyte membranes: a molecular dynamics simulation study. *Journal of Physical Chemistry B*, **2013**, 117, 365-72	3.4	7
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