Suresh Bhatia

List of Publications by Year
in descending order

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308	12,476	36303	36028
papers	citations	51 h-index	97 g-index

315	315	315	8775
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A random pore model for fluid-solid reactions: I. Isothermal, kinetic control. AICHE Journal, 1980, 26, 379-386.	3.6	1,046
2	Optimum Conditions for Adsorptive Storage. Langmuir, 2006, 22, 1688-1700.	3.5	936
3	Effect of the product layer on the kinetics of the CO2-lime reaction. AICHE Journal, 1983, 29, 79-86.	3.6	559
4	Recent Advances in Processing and Characterization of Periodic Mesoporous MCM-41 Silicate Molecular Sieves. Industrial & Engineering Chemistry Research, 2001, 40, 3237-3261.	3.7	462
5	A random pore model for fluid-solid reactions: II. Diffusion and transport effects. AICHE Journal, 1981, 27, 247-254.	3.6	416
6	High-Pressure Adsorption of Methane and Carbon Dioxide on Coal. Energy & Fuels, 2006, 20, 2599-2607.	5.1	255
7	The effect of pore structure on fluid-solid reactions: Application to the SO2-lime reaction. AICHE Journal, 1981, 27, 226-234.	3.6	194
8	Variation of the pore structure of coal chars during gasification. Carbon, 2003, 41, 507-523.	10.3	187
9	Structural ordering of coal char during heat treatment and its impact on reactivity. Carbon, 2002, 40, 481-496.	10.3	178
10	Simulation of binary mixture adsorption of methane and CO2 at supercritical conditions in carbons. AICHE Journal, 2006, 52, 957-967.	3.6	157
11	Quantum Effects on Adsorption and Diffusion of Hydrogen and Deuterium in Microporous Materials. Journal of Physical Chemistry B, 2006, 110, 16666-16671.	2.6	138
12	Molecular transport in nanopores: a theoretical perspective. Physical Chemistry Chemical Physics, 2011, 13, 15350.	2.8	137
13	Axial segregation of particles in a horizontal rotating cylinder. Chemical Engineering Science, 1991, 46, 1513-1517.	3.8	127
14	New Method for Atomistic Modeling of the Microstructure of Activated Carbons Using Hybrid Reverse Monte Carlo Simulation. Langmuir, 2008, 24, 7912-7922.	3.5	114
15	Quantum Effect Induced Reverse Kinetic Molecular Sieving in Microporous Materials. Physical Review Letters, 2005, 95, 245901.	7.8	108
16	Wall Mediated Transport in Confined Spaces: Exact Theory for Low Density. Physical Review Letters, 2003, 91, 126102.	7.8	105
17	Experimental and Theoretical Investigations of Adsorption Hysteresis and Criticality in MCM-41:Â Studies with O2, Ar, and CO2â€. Industrial & Engineering Chemistry Research, 1998, 37, 2271-2283.	3.7	103
18	Study of Hexane Adsorption in Nanoporous MCM-41 Silica. Langmuir, 2004, 20, 389-395.	3.5	94

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19	Characterization of Pore Size Distributions of Mesoporous Materials from Adsorption Isotherms. Journal of Physical Chemistry B, 2000, 104, 9099-9110.	2.6	91
20	Tractable molecular theory of transport of Lennard-Jones fluids in nanopores. Journal of Chemical Physics, 2004, 120, 4472-4485.	3.0	90
21	Microscopic Observation of Kinetic Molecular Sieving of Hydrogen Isotopes in a Nanoporous Material. Physical Review Letters, 2010, 105, 085901.	7.8	89
22	Variation of the Crystalline Structure of Coal Char during Gasification. Energy & Fuels, 2003, 17, 744-754.	5.1	88
23	Some pitfalls in the use of the Knudsen equation in modelling diffusion in nanoporous materials. Chemical Engineering Science, 2011, 66, 284-293.	3.8	80
24	Comparisons of diffusive and viscous contributions to transport coefficients of light gases in single-walled carbon nanotubes. Molecular Simulation, 2005, 31, 643-649.	2.0	79
25	A Modified Pore-Filling Isotherm for Liquid-Phase Adsorption in Activated Carbon. Langmuir, 2001, 17, 1488-1498.	3.5	75
26	Hydrodynamic Origin of Diffusion in Nanopores. Physical Review Letters, 2003, 90, 016105.	7.8	74
27	Adsorption of CH4 and CH4/CO2 mixtures in carbon nanotubes and disordered carbons: A molecular simulation study. Chemical Engineering Science, 2015, 121, 268-278.	3.8	74
28	Effect of ionic liquids (ILs) on MOFs/polymer interfacial enhancement in mixed matrix membranes. Journal of Membrane Science, 2019, 587, 117157.	8.2	74
29	Steady-State Transitions and Polymorph Transformations in Continuous Precipitation of Calcium Carbonate. Industrial & Engineering Chemistry Research, 1994, 33, 2187-2197.	3.7	71
30	Molecular Simulation of CO₂ Adsorption in the Presence of Water in Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 13479-13491.	3.1	70
31	Prediction of multilayer adsorption and capillary condensation phenomena in cylindrical mesopores. Microporous and Mesoporous Materials, 2003, 65, 287-298.	4.4	69
32	Adsorption in mesopores. Chemical Engineering Science, 1998, 53, 3143-3156.	3.8	66
33	Molecular transport in nanopores. Journal of Chemical Physics, 2003, 119, 1719-1730.	3.0	66
34	Stochastic theory of transport in inhomogeneous media. Chemical Engineering Science, 1986, 41, 1311-1324.	3.8	63
35	Determination of Pore Accessibility in Disordered Nanoporous Materials. Journal of Physical Chemistry C, 2007, 111, 2212-2222.	3.1	63
36	Density Functional Theory Analysis of the Influence of Pore Wall Heterogeneity on Adsorption in Carbons. Langmuir, 2002, 18, 6845-6856.	3.5	62

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37	Structural Modelling of Silicon Carbide-Derived Nanoporous Carbon by Hybrid Reverse Monte Carlo Simulation. Journal of Physical Chemistry C, 2013, 117, 14081-14094.	3.1	60
38	Single-Walled Carbon Nanotubes:â€‰ Efficient Nanomaterials for Separation and On-Board Vehicle Storage of Hydrogen and Methane Mixture at Room Temperature?. Journal of Physical Chemistry C, 2007, 111, 5250-5257.	3.1	59
39	Modeling the pore structure of coal. AICHE Journal, 1987, 33, 1707-1718.	3.6	58
40	Pore Accessibility of Methane and Carbon Dioxide in Coals. Energy & Fuels, 2009, 23, 3319-3327.	5.1	58
41	Adsorption of Benzene and Ethanol on MCM-41 Material. Langmuir, 1998, 14, 4950-4952.	3.5	57
42	Modeling molecular transport in slit pores. Journal of Chemical Physics, 2004, 120, 5396-5406.	3.0	57
43	Thermodynamics of Hydrogen Adsorption in Slit-like Carbon Nanopores at 77 K. Classical versus Path-Integral Monte Carlo Simulations. Langmuir, 2007, 23, 3666-3672.	3.5	56
44	Kinetic Restriction of Simple Gases in Porous Carbons:â€‰ Transition-State Theory Study. Langmuir, 2008, 24, 146-154.	3.5	56
45	Axial transport of granular solids in horizontal rotating cylinders. Part 1: Theory. Powder Technology, 1991, 67, 145-151.	4.2	55
46	Reaction of microporous solids: The discrete random pore model. Carbon, 1996, 34, 1383-1391.	10.3	54
47	Characterization of activated carbons using liquid phase adsorption. Carbon, 2001, 39, 1237-1250.	10.3	54
48	Prediction of High-Pressure Adsorption Equilibrium of Supercritical Gases Using Density Functional Theory. Langmuir, 2005, 21, 3187-3197.	3.5	54
49	Transport of simple fluids in nanopores: Theory and simulation. AICHE Journal, 2006, 52, 29-38.	3.6	54
50	How Water Adsorbs in Hydrophobic Nanospaces. Journal of Physical Chemistry C, 2011, 115, 16606-16612.	3.1	54
51	High-Pressure Adsorption Capacity and Structure of CO2in Carbon Slit Pores:Â Theory and Simulation. Langmuir, 2004, 20, 9612-9620.	3.5	53
52	Probing the Pore Wall Structure of Nanoporous Carbons Using Adsorption. Langmuir, 2004, 20, 3532-3535.	3.5	52
53	Characterization of Surface Roughness of MCM-41 Using Methods of Fractal Analysis. Langmuir, 1999, 15, 4603-4612.	3.5	51
54	A generalised dynamic model for char particle gasification with structure evolution and peripheral fragmentation. Chemical Engineering Science, 2001, 56, 3683-3697.	3.8	51

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55	Analytical Solution of Forced Convection in a Duct of Rectangular Cross Section Saturated by a Porous Medium. Journal of Heat Transfer, 2006, 128, 596-600.	2.1	51
56	Formation and Aggregation of Polymorphs in Continuous Precipitation. 2. Kinetics of CaCO3Precipitation. Industrial & Engineering Chemistry Research, 1996, 35, 1995-2006.	3.7	50
57	Characterization of Pore Wall Heterogeneity in Nanoporous Carbons Using Adsorption:â€‰ the Slit Pore Model Revisited. Journal of Physical Chemistry B, 2004, 108, 14032-14042.	2.6	50
58	Structure and Gas Transport at the Polymerâ€“Zeolite Interface: Insights from Molecular Dynamics Simulations. ACS Applied Materials & Interfaces, 2018, 10, 5992-6005.	8.0	50
59	Modeling Permeation through Mixed-Matrix Membranes: A Review. Processes, 2018, 6, 172.	2.8	50
60	Sodium ion storage in reduced graphene oxide. Electrochimica Acta, 2016, 214, 319-325.	5.2	49
61	Axial transport of granular solids in rotating cylinders. Part 2: Experiments in a non-flow system. Powder Technology, 1991, 67, 153-162.	4.2	48
62	Electrostatically Mediated Specific Adsorption of Small Molecules in Metallo-Organic Frameworks. Journal of Physical Chemistry B, 2006, 110, 24834-24836.	2.6	48
63	Structure of saccharose-based carbon and transport of confined fluids: hybrid reverse Monte Carlo reconstruction and simulation studies. Molecular Simulation, 2006, 32, 567-577.	2.0	47
64	Impact of H₂O on CO₂ Separation from Natural Gas: Comparison of Carbon Nanotubes and Disordered Carbon. Journal of Physical Chemistry C, 2015, 119, 407-419.	3.1	47
65	On the validity of thermogravimetric determination of carbon gasification kinetics. Chemical Engineering Science, 2002, 57, 2907-2920.	3.8	45
66	Unified treatment of structural effects in fluid-solid reactions. AICHE Journal, 1983, 29, 281-289.	3.6	43
67	Capillary Coexistence and Criticality in Mesopores:Â Modification of the Kelvin Theory. Langmuir, 1998, 14, 1521-1524.	3.5	43
68	Analysis of Criticality and Isotherm Reversibility in Regular Mesoporous Materials. Langmuir, 1999, 15, 5347-5354.	3.5	43
69	Structural Characterization of MCM-41 over a Wide Range of Length Scales. Langmuir, 1999, 15, 2809-2816.	3.5	43
70	Thermal degradation of high density polyethylene in a reactive extruder. Polymer Degradation and Stability, 2007, 92, 1721-1729.	5.8	43
71	Ab initio modelling of basal plane oxidation of graphenes and implications for modelling char combustion. Carbon, 2002, 40, 2341-2349.	10.3	42
72	Solubility of selected esters in supercritical carbon dioxide. Journal of Supercritical Fluids, 2003, 27, 1-11.	3.2	42

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73	Quantum effect induced kinetic molecular sieving of hydrogen and deuterium in microporous materials. Adsorption, 2007, 13, 501-508.	3.0	42
74	Feasibility of tailoring for high isosteric heat to improve effectiveness of hydrogen storage in carbons. Carbon, 2007, 45, 1043-1050.	10.3	41
75	Modeling Pure Gas Permeation in Nanoporous Materials and Membranes. Langmuir, 2010, 26, 8373-8385.	3.5	41
76	Molecular dynamics, grand canonical Monte Carlo and expert simulations and modeling of waterâ€“acetic acid pervaporation using polyvinyl alcohol/tetraethyl orthosilicates membrane. Journal of Molecular Liquids, 2018, 265, 53-68.	4.9	41
77	Effect of the CaO sintering on the calcination rate of CaCO₃ under atmospheres containing CO₂. AICHE Journal, 2018, 64, 3638-3648.	3.6	41
78	Solution of cyclic profiles in catalytic reactor operation with periodic flow reversal. Computers and Chemical Engineering, 1991, 15, 229-237.	3.8	40
79	Porphyrinâ€“graphene oxide frameworks for long life sodium ion batteries. Journal of Materials Chemistry A, 2017, 5, 13204-13211.	10.3	40
80	Kinetics of adsorption on activated carbon: application of heterogeneous vacancy solution theory. Chemical Engineering Science, 2002, 57, 3909-3928.	3.8	39
81	Theoretical Prediction With Numerical and Experimental Verification to Predict Crosswind Effects on the Performance of Cooling Towers. Heat Transfer Engineering, 2015, 36, 480-487.	1.9	39
82	Kinetic analysis for cyclic CO₂ capture using lithium orthosilicate sorbents derived from different silicon precursors. Dalton Transactions, 2018, 47, 9038-9050.	3.3	39
83	Interfacial Engineering of MOF-Based Mixed Matrix Membrane through Atomistic Simulations. Journal of Physical Chemistry C, 2020, 124, 594-604.	3.1	39
84	Stereospecific synthesis of ether and thioether phospholipids. The use of L-glyceric acid as a chiral phospholipid precursor. Journal of Organic Chemistry, 1988, 53, 5034-5039.	3.2	37
85	Analysis of catalytic reactor operation with periodic flow reversal. Chemical Engineering Science, 1991, 46, 361-367.	3.8	37
86	Effect of fluorine doping on structure and CO2 adsorption in silicon carbide-derived carbon. Carbon, 2016, 96, 565-577.	10.3	37
87	A modified discrete random pore model allowing for different initial surface reactivity. Carbon, 2000, 38, 47-58.	10.3	36
88	Characterization of activated carbon fibers using argon adsorption. Carbon, 2005, 43, 775-785.	10.3	36
89	Understanding the diffusional tortuosity of porous materials: An effective medium theory perspective. Chemical Engineering Science, 2014, 110, 55-71.	3.8	36
90	Hybrid Reverse Monte Carlo simulation of amorphous carbon: Distinguishing between competing structures obtained using different modeling protocols. Carbon, 2015, 83, 53-70.	10.3	36

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91	Adsorption of Binary Hydrocarbon Mixtures in Carbon Slit Pores:Â A Density Functional Theory Study. Langmuir, 1998, 14, 6231-6240.	3.5	35
92	Characterization of accessible and inaccessible pores in microporous carbons by a combination of adsorption and small angle neutron scattering. Carbon, 2012, 50, 3045-3054.	10.3	35
93	Transport Diffusion of Light Gases in Polyethylene Using Atomistic Simulations. Langmuir, 2017, 33, 936-946.	3.5	35
94	Is Kinetic Molecular Sieving of Hydrogen Isotopes Feasible?. Journal of Physical Chemistry C, 2008, 112, 11421-11426.	3.1	34
95	Comparative Analysis of Structural and Morphological Properties of Large-Pore Periodic Mesoporous Organosilicas and Pure Silicas. Journal of Physical Chemistry B, 2004, 108, 16441-16450.	2.6	33
96	Interfacial Resistance and Length-Dependent Transport Diffusivities in Carbon Nanotubes. Journal of Physical Chemistry C, 2016, 120, 26363-26373.	3.1	33
97	Directional autocorrelation and the diffusional tortuosity of capillary porous media. Journal of Catalysis, 1985, 93, 192-196.	6.2	32
98	Investigation of Network Connectivity in Activated Carbons by Liquid Phase Adsorption. Langmuir, 2000, 16, 9303-9313.	3.5	32
99	Modeling Mixture Transport at the Nanoscale: Departure from Existing Paradigms. Physical Review Letters, 2008, 100, 236103.	7.8	32
100	Some Anomalies in the Self-Diffusion of Water in Disordered Carbons. Journal of Physical Chemistry C, 2012, 116, 3667-3676.	3.1	32
101	Interfacial barriers to gas transport in zeolites: distinguishing internal and external resistances. Physical Chemistry Chemical Physics, 2018, 20, 26386-26395.	2.8	32
102	Transport in capillary network models of porous media: theory and simulation. Chemical Engineering Science, 1994, 49, 245-257.	3.8	31
103	Simulation of binary gas separation through multi-tube molecular sieving membranes at high temperatures. Chemical Engineering Journal, 2013, 218, 394-404.	12.7	31
104	Turbulent heat transfer and nanofluid flow in an annular cylinder with sudden reduction. Journal of Thermal Analysis and Calorimetry, 2020, 141, 373-385.	3.6	31
105	Effect of Pore Blockage on Adsorption Isotherms and Dynamics: Anomalous Adsorption of Iodine on Activated Carbon. Langmuir, 2000, 16, 4001-4008.	3.5	30
106	Characterization and Adsorption Modeling of Silicon Carbide-Derived Carbons. Langmuir, 2009, 25, 2121-2132.	3.5	30
107	Influence of Sulfur and Metal Microconstituents on the Reactivity of Carbon Anodes. Energy & Fuels, 2009, 23, 1909-1924.	5.1	30
108	Lattice Boltzmann Simulation of Conjugate Heat Transfer from Multiple Heated Obstacles Mounted in a Walled Parallel Plate Channel. Numerical Heat Transfer; Part A: Applications, 2012, 62, 798-821.	2.1	30

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109	Diffusion Study by IR Micro-Imaging of Molecular Uptake and Release on Mesoporous Zeolites of Structure Type CHA and LTA. Materials, 2013, 6, 2662-2688.	2.9	30
110	Influence of Structural Heterogeneity on Diffusion of CH₄ and CO₂ in Silicon Carbide-Derived Nanoporous Carbon. Journal of Physical Chemistry C, 2014, 118, 11784-11798.	3.1	30
111	Adsorption of flavour esters on granular activated carbon. Canadian Journal of Chemical Engineering, 2000, 78, 892-901.	1.7	29
112	Percolative Fragmentation of Char Particles during Gasification. Energy & Fuels, 2000, 14, 297-307.	5.1	29
113	Modelling of hydrolysis controlled anaerobic digestion. Journal of Chemical Technology and Biotechnology, 2007, 53, 337-344.	3.2	29
114	On the Strength of the Hydrogenâ^'Carbon Interaction as Deduced from Physisorption. Langmuir, 2009, 25, 4314-4319.	3.5	29
115	Kinetic modelling of molecular hydrogen transport in microporous carbon materials. Physical Chemistry Chemical Physics, 2011, 13, 7834.	2.8	29
116	Understanding Adsorption and Transport of Light Gases in Hierarchical Materials Using Molecular Simulation and Effective Medium Theory. Journal of Physical Chemistry C, 2014, 118, 14355-14370.	3.1	29
117	Cavitation in Diesel Fuel Injector Nozzles and its Influence on Atomization and Spray. Chemical Engineering and Technology, 2019, 42, 6-29.	1.5	29
118	Partial internal wetting of catalyst particles: Hysteresis effects. AICHE Journal, 1991, 37, 650-660.	3.6	28
119	Kinetic study of the thermal degradation of high density polyethylene. Polymer Degradation and Stability, 2006, 91, 1476-1483.	5.8	28
120	Prediction of carbon dioxide permeability in carbon slit pores. Journal of Membrane Science, 2010, 355, 186-199.	8.2	28
121	Characterizing Structural Complexity in Disordered Carbons: From the Slit Pore to Atomistic Models. Langmuir, 2017, 33, 831-847.	3.5	28
122	Quantum Effect-Mediated Hydrogen Isotope Mixture Separation in Slit Pore Nanoporous Materials. Journal of Physical Chemistry C, 2009, 113, 14953-14962.	3.1	27
123	Potential of Silicon Carbide-Derived Carbon for Carbon Capture. Industrial & Engineering Chemistry Research, 2011, 50, 10380-10383.	3.7	27
124	High Interfacial Barriers at Narrow Carbon Nanotubeâ€“Water Interfaces. Langmuir, 2018, 34, 8099-8111.	3.5	27
125	Analysis of distributed pore closure in gas-solid reactions. AICHE Journal, 1985, 31, 642-648.	3.6	26
126	A Modified Pore Filling Isotherm with Application in Determination of Pore Size Distributions. Langmuir, 1994, 10, 3230-3243.	3.5	26

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127	Combined surface and viscous flow of condensable vapor in porous media. Chemical Engineering Science, 1995, 50, 167-182.	3.8	26
128	Kinetics of the Dehydroxylation of Serpentine. Energy & Fuels, 2012, 26, 783-790.	5.1	26
129	Mechanisms Influencing Levitation and the Scaling Laws in Nanopores:â€‰ Oscillator Model Theory. Journal of Physical Chemistry B, 2006, 110, 3109-3113.	2.6	25
130	Crystalline Structure Transformation of Carbon Anodes during Gasification. Energy & Fuels, 2008, 22, 1902-1910.	5.1	25
131	Influence of in-plane Stoneâ€“Throwerâ€“Wales defects and edge functionalisation on the adsorption of CO2and H2O on graphene. RSC Advances, 2014, 4, 39576.	3.6	25
132	Slow diffusion of methane in ultra-micropores of silicon carbide-derived carbon. Carbon, 2014, 77, 560-576.	10.3	25
133	Computationally efficient solution techniques for adsorption problems involving steep gradients in bidisperse particles. Computers and Chemical Engineering, 1999, 23, 933-943.	3.8	24
134	Improvement of para-Xylene SMB Process Performance on an Industrial Scale. Industrial & Engineering Chemistry Research, 2010, 49, 3316-3327.	3.7	24
135	Computational fluid dynamics applied to high temperature hydrogen separation membranes. Frontiers of Chemical Science and Engineering, 2012, 6, 3-12.	4.4	24
136	Extending effective medium theory to finite size systems: Theory and simulation for permeation in mixed-matrix membranes. Journal of Membrane Science, 2017, 531, 148-159.	8.2	24
137	A new approach to the synthesis of thioether phospholipids. Preparation of 1-thiohexadecyl-2-N-acylaminodeoxyglycerophosphocholines. Tetrahedron Letters, 1988, 29, 31-34.	1.4	23
138	Stereospecific Synthesis of 2-Substituted Ether Phospholipids. Synthesis, 1989, 1989, 16-20.	2.3	23
139	Friction based modeling of multicomponent transport at the nanoscale. Journal of Chemical Physics, 2008, 129, 164709.	3.0	23
140	The low-density diffusion coefficient of soft-sphere fluids in nanopores: Accurate correlations from exact theory and criteria for applicability of the Knudsen model. Journal of Membrane Science, 2011, 382, 339-339.	8.2	23
141	The transport of gases in a supported mesoporous silica membrane. Journal of Membrane Science, 2013, 438, 90-104.	8.2	23
142	Thermodynamic Resistance to Matter Flow at The Interface of a Porous Membrane. Langmuir, 2016, 32, 3400-3411.	3.5	23
143	Effect of structural anisotropy and pore-network accessibility on fluid transport in nanoporous Ti3SiC2 carbide-derived carbon. Carbon, 2016, 103, 16-27.	10.3	23
144	A new approach to the synthesis of ether phospholipids. Preparation of 1,2-dialkylglycerophosphorylcholines from L-glyceric acid. Tetrahedron Letters, 1987, 28, 271-274.	1.4	22

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145	Transport in bidisperse adsorbents: significance of the macroscopic adsorbate flux. Chemical Engineering Science, 1997, 52, 1377-1386.	3.8	22
146	Vacancy solution theory of adsorption revisited. AICHE Journal, 2001, 47, 2136-2138.	3.6	22
147	Close packed transitions in slit-shaped pores: Density functional theory study of methane adsorption capacity in carbon. Journal of Chemical Physics, 2002, 117, 10827-10836.	3.0	22
148	Adsorption and Diffusion of Methane in Silica Nanopores: A Comparison of Single-Site and Five-Site Models. Journal of Physical Chemistry C, 2012, 116, 2344-2355.	3.1	22
149	Pore accessibility of Ti3SiC2-derived carbons. Carbon, 2014, 68, 531-541.	10.3	22
150	The fluid dynamic effect on the driving force for a cobalt oxide silica membrane module at high temperatures. Chemical Engineering Science, 2014, 111, 142-152.	3.8	22
151	Application of Petrovâ€“Galerkin methods to transient boundary value problems in chemical engineering: adsorption with steep gradients in bidisperse solids. Chemical Engineering Science, 2001, 56, 3727-3735.	3.8	21
152	Diffusion of n-decane in mesoporous MCM-41 silicas. Microporous and Mesoporous Materials, 2005, 86, 112-123.	4.4	21
153	Optimization of Slitlike Carbon Nanopores for Storage of hythane Fuel at Ambient Temperatures. Journal of Physical Chemistry B, 2006, 110, 23770-23776.	2.6	21
154	Anomalous transport in molecularly confined spaces. Journal of Chemical Physics, 2007, 127, 124701.	3.0	21
155	Air Reactivity of Petroleum Cokes:Â Role of Inaccessible Porosity. Industrial & Engineering Chemistry Research, 2007, 46, 3265-3274.	3.7	21
156	Influence of Synthesis Conditions and Heat Treatment on the Structure of Ti3SiC2-Derived Carbons. Journal of Physical Chemistry C, 2010, 114, 1046-1056.	3.1	21
157	Adsorption and transport of gases in a supported microporous silica membrane. Journal of Membrane Science, 2014, 460, 46-61.	8.2	21
158	Capacitance Optimization in Nanoscale Electrochemical Supercapacitors. Journal of Physical Chemistry C, 2015, 119, 17573-17584.	3.1	21
159	Barriers to diffusion of CO2 in microporous carbon derived from silicon carbide. Carbon, 2015, 88, 1-15.	10.3	21
160	Lattice Boltzmann Pore Scale Simulation of Natural Convection in a Differentially Heated Enclosure Filled with a Detached or Attached Bidisperse Porous Medium. Transport in Porous Media, 2017, 116, 91-113.	2.6	21
161	Multiscale simulation of gas transport in mixed-matrix membranes with interfacial polymer rigidification. Microporous and Mesoporous Materials, 2020, 296, 109982.	4.4	21
162	Determination of pore size distributions by regularization and finite element collocation. Chemical Engineering Science, 1998, 53, 3239-3249.	3.8	20

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163	Activation Energy Distribution of Thermal Annealing of a Bituminous Coal. Energy & Fuels, 2003, 17, 399-404.	5.1	20
164	Atomistic Investigation of Mixed-Gas Separation in a Fluorinated Polyimide Membrane. ACS Applied Polymer Materials, 2019, 1, 1359-1371.	4.4	20
165	Modified MWR approach: Application to agglomerative precipitation. AICHE Journal, 1992, 38, 868-878.	3.6	19
166	Solution of transient problems with steep gradients: Novel front-tracking strategy. Chemical Engineering Science, 1995, 50, 2793-2799.	3.8	19
167	Simulation of quantum separation of binary hydrogen isotope mixtures in carbon slit pores. Molecular Simulation, 2009, 35, 162-171.	2.0	19
168	Determination of concentration-dependent adsorbate diffusivities by numerical inversion. Chemical Engineering Science, 1995, 50, 1361-1372.	3.8	18
169	Modelling of catalytic oxidation of NH3 and reduction of NO on limestone during sulphur capture. Chemical Engineering Science, 1996, 51, 587-601.	3.8	18
170	Reactivity of chars and carbons: New insights through molecular modeling. AICHE Journal, 1998, 44, 2478-2493.	3.6	18
171	Determination of activation energy distributions for chemisorption of oxygen on carbon: an improved approach. Chemical Engineering Science, 2000, 55, 6187-6196.	3.8	18
172	Comments on â€œDiffusion in a mesoporous silica membrane: Validity of the Knudsen diffusion modelâ€, by Ruthven, D.M., et al., Chem. Eng. Sci. 64 (2009) 3201â€“3203. Chemical Engineering Science, 2010, 65, 4519-4520.	3.8	18
173	Heat Treatment-Induced Structural Changes in SiC-Derived Carbons and their Impact on Gas Storage Potential. Journal of Physical Chemistry C, 2010, 114, 16562-16575.	3.1	18
174	A Comparison Between the Separated Flow Structures Near the Wake of a Bare and a Foam-Covered Circular Cylinder. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	18
175	Complementary Effects of Pore Accessibility and Decoordination on the Capacitance of Nanoporous Carbon Electrochemical Supercapacitors. Journal of Physical Chemistry C, 2015, 119, 28809-28818.	3.1	18
176	Fluorinated Carbide-Derived Carbon: More Hydrophilic, Yet Apparently More Hydrophobic. Journal of the American Chemical Society, 2015, 137, 5969-5979.	13.7	18
177	On the modeling of the co₂â€catalyzed sintering of calcium oxide. AICHE Journal, 2017, 63, 3286-3296.	3.6	18
178	Inhibitory Effect of Adsorbed Water on the Transport of Methane in Carbon Nanotubes. Langmuir, 2017, 33, 6280-6291.	3.5	18
179	Steady state multiplicity and partial internal wetting of catalyst particles. AICHE Journal, 1988, 34, 969-979.	3.6	17
180	EFFECTIVE DIFFUSIVITY OF PHENOL IN ACTIVATED CARBON. Chemical Engineering Communications, 1990, 98, 139-154.	2.6	17

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181	Interpretation of Adsorption Isotherms at Above-Critical Temperatures Using a Modified Micropore Filling Model. Langmuir, 1994, 10, 870-876.	3.5	17
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