

Muhammad Sahimi

List of Publications by Year in descending order

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292
papers

13,928
citations

18436

62
h-index

33814

99
g-index

316
all docs

316
docs citations

316
times ranked

8519
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow phenomena in rocks: from continuum models to fractals, percolation, cellular automata, and simulated annealing. <i>Reviews of Modern Physics</i> , 1993, 65, 1393-1534.	16.4	977
2	Tortuosity in Porous Media: A Critical Review. <i>Soil Science Society of America Journal</i> , 2013, 77, 1461-1477.	1.2	569
3	Statistical and continuum models of fluid-solid reactions in porous media. <i>Chemical Engineering Science</i> , 1990, 45, 1443-1502.	1.9	382
4	A study by in situ techniques of the thermal evolution of the structure of a Mg-Al-CO ₃ layered double hydroxide. <i>Chemical Engineering Science</i> , 2002, 57, 2945-2953.	1.9	342
5	Approaching complexity by stochastic methods: From biological systems to turbulence. <i>Physics Reports</i> , 2011, 506, 87-162.	10.3	258
6	Multiple-point geostatistical modeling based on the cross-correlation functions. <i>Computational Geosciences</i> , 2012, 16, 779-797.	1.2	238
7	Asphalt flocculation and deposition: I. The onset of precipitation. <i>AIChE Journal</i> , 1996, 42, 10-22.	1.8	234
8	Stochastic transport in disordered systems. <i>Journal of Chemical Physics</i> , 1983, 78, 6849-6864.	1.2	179
9	Dispersion in flow through porous media—II. One-phase flow. <i>Chemical Engineering Science</i> , 1986, 41, 2103-2122.	1.9	178
10	Elastic percolation models for cohesive mechanical failure in heterogeneous systems. <i>Physical Review B</i> , 1986, 33, 7848-7851.	1.1	157
11	Cross-Correlation Function for Accurate Reconstruction of Heterogeneous Media. <i>Physical Review Letters</i> , 2013, 110, 078002.	2.9	148
12	Mechanics of disordered solids. I. Percolation on elastic networks with central forces. <i>Physical Review B</i> , 1993, 47, 695-702.	1.1	143
13	Machine learning in geo- and environmental sciences: From small to large scale. <i>Advances in Water Resources</i> , 2020, 142, 103619.	1.7	138
14	Reconstruction of three-dimensional porous media using a single thin section. <i>Physical Review E</i> , 2012, 85, 066709.	0.8	131
15	Pore network modelling of two-phase flow in porous rock: the effect of correlated heterogeneity. <i>Advances in Water Resources</i> , 2001, 24, 257-277.	1.7	130
16	Flow, Transport, and Reaction in Porous Media: Percolation Scaling, Critical-Path Analysis, and Effective Medium Approximation. <i>Reviews of Geophysics</i> , 2017, 55, 993-1078.	9.0	130
17	Mechanics of disordered solids. II. Percolation on elastic networks with bond-bending forces. <i>Physical Review B</i> , 1993, 47, 703-712.	1.1	129
18	Silicon carbide membranes for gas separation applications. <i>Journal of Membrane Science</i> , 2007, 288, 290-297.	4.1	128

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19	Invasion percolation: new algorithms and universality classes. <i>Journal of Physics A</i> , 1999, 32, L521-L529.	1.6	121
20	Percolation Theory of Two-Phase Relative Permeability. <i>SPE Reservoir Engineering</i> , 1992, 7, 123-132.	0.5	119
21	Computer simulation of particle transport processes in flow through porous media. <i>Chemical Engineering Science</i> , 1991, 46, 1977-1993.	1.9	109
22	Experiments and Simulation of Transport and Separation of Gas Mixtures in Carbon Molecular Sieve Membranes. <i>Journal of Physical Chemistry A</i> , 1998, 102, 8580-8589.	1.1	102
23	Three-Dimensional Stochastic Characterization of Shale SEM Images. <i>Transport in Porous Media</i> , 2015, 110, 521-531.	1.2	100
24	Real-space renormalization and effective-medium approximation to the percolation conduction problem. <i>Physical Review B</i> , 1983, 28, 307-311.	1.1	99
25	Scaling properties of a percolation model with long-range correlations. <i>Physical Review E</i> , 1996, 54, 3870-3880.	0.8	99
26	Porous Silicon Carbide Sintered Substrates for High-Temperature Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3264-3271.	1.8	99
27	Asphalt flocculation and deposition: II. Formation and growth of fractal aggregates. <i>AIChE Journal</i> , 1996, 42, 3318-3332.	1.8	96
28	Scaling Laws for Fracture of Heterogeneous Materials and Rock. <i>Physical Review Letters</i> , 1996, 77, 3689-3692.	2.9	95
29	Transport and Morphological Characteristics of Polyetherimide-Based Carbon Molecular Sieve Membranes. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 3367-3380.	1.8	95
30	Linking Morphology of Porous Media to Their Macroscopic Permeability by Deep Learning. <i>Transport in Porous Media</i> , 2020, 131, 427-448.	1.2	95
31	Nonequilibrium Molecular Dynamics Simulation of Transport of Gas Mixtures in Nanopores. <i>Physical Review Letters</i> , 1998, 80, 3511-3514.	2.9	89
32	Fractal distribution of earthquake hypocenters and its relation to fault patterns and percolation. <i>Physical Review Letters</i> , 1993, 70, 2186-2189.	2.9	88
33	Chemisorption, physisorption and hysteresis during hydrogen storage in carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1390-1397.	3.8	88
34	Fractal and superdiffusive transport and hydrodynamic dispersion in heterogeneous porous media. <i>Transport in Porous Media</i> , 1993, 13, 3-40.	1.2	87
35	Percolation Theory Generates a Physically Based Description of Tortuosity in Saturated and Unsaturated Porous Media. <i>Soil Science Society of America Journal</i> , 2013, 77, 1920-1929.	1.2	87
36	MS-CCSIM: Accelerating pattern-based geostatistical simulation of categorical variables using a multi-scale search in Fourier space. <i>Computers and Geosciences</i> , 2014, 67, 75-88.	2.0	87

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37	Molecular dynamics simulations of adsorption and diffusion of gases in silicon-carbide nanotubes. <i>Journal of Chemical Physics</i> , 2010, 132, 014310.	1.2	85
38	Elastic properties of three-dimensional percolation networks with stretching and bond-bending forces. <i>Physical Review B</i> , 1988, 38, 7173-7176.	1.1	84
39	DISPERSION IN DISORDERED POROUS MEDIA. <i>Chemical Engineering Communications</i> , 1983, 23, 329-341.	1.5	82
40	Mechanics of disordered solids. III. Fracture properties. <i>Physical Review B</i> , 1993, 47, 713-722.	1.1	82
41	Characterization of long-range correlations in complex distributions and profiles. <i>Physical Review E</i> , 1997, 56, 712-722.	0.8	81
42	Multiscale study for stochastic characterization of shale samples. <i>Advances in Water Resources</i> , 2016, 89, 91-103.	1.7	81
43	Preparation and reactive applications of nanoporous silicon carbide membranes. <i>Chemical Engineering Science</i> , 2004, 59, 4957-4965.	1.9	80
44	Invasion percolation with long-range correlations: First-order phase transition and nonuniversal scaling properties. <i>Physical Review E</i> , 2000, 61, 4920-4934.	0.8	78
45	Transport of large particles in flow through porous media. <i>Physical Review A</i> , 1987, 36, 5304-5309.	1.0	76
46	Surface tension of binary liquid-vapor mixtures: A comparison of mean-field and scaling theories. <i>Journal of Chemical Physics</i> , 1991, 95, 6749-6761.	1.2	75
47	Nonequilibrium molecular dynamics simulation of transport and separation of gases in carbon nanopores. I. Basic results. <i>Journal of Chemical Physics</i> , 1999, 111, 3252-3264.	1.2	75
48	Multiscale and multiresolution modeling of shales and their flow and morphological properties. <i>Scientific Reports</i> , 2015, 5, 16373.	1.6	74
49	Enhancing multiple-point geostatistical modeling: 1. Graph theory and pattern adjustment. <i>Water Resources Research</i> , 2016, 52, 2074-2098.	1.7	74
50	Diffusion of Large Molecules in Porous Media. <i>Physical Review Letters</i> , 1989, 62, 629-632.	2.9	73
51	Structural characterization of polyetherimide-based carbon molecular sieve membranes. <i>AIChE Journal</i> , 2000, 46, 2245-2255.	1.8	73
52	Hydrodynamics of particulate motion in porous media. <i>Physical Review Letters</i> , 1991, 66, 1169-1172.	2.9	71
53	Nonlinear transport processes in disordered media. <i>AIChE Journal</i> , 1993, 39, 369-386.	1.8	71
54	Dispersion in flow through porous media-II. Two-phase flow. <i>Chemical Engineering Science</i> , 1986, 41, 2123-2136.	1.9	69

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55	A novel sacrificial interlayer-based method for the preparation of silicon carbide membranes. <i>Journal of Membrane Science</i> , 2008, 316, 73-79.	4.1	69
56	Enhancing images of shale formations by a hybrid stochastic and deep learning algorithm. <i>Neural Networks</i> , 2019, 118, 310-320.	3.3	69
57	Enhancing multiple-point geostatistical modeling: 2. Iterative simulation and multiple distance function. <i>Water Resources Research</i> , 2016, 52, 2099-2122.	1.7	68
58	Mapping stochastic processes onto complex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P07046.	0.9	67
59	Critical properties of viscoelasticity of gels and elastic percolation networks. <i>Physical Review Letters</i> , 1990, 65, 725-728.	2.9	65
60	Data mining and machine learning for identifying sweet spots in shale reservoirs. <i>Expert Systems With Applications</i> , 2017, 88, 435-447.	4.4	65
61	Position-space renormalization for elastic percolation networks with bond-bending forces. <i>Physical Review B</i> , 1985, 31, 1671-1673.	1.1	63
62	Nonequilibrium molecular dynamics simulation of transport and separation of gases in carbon nanopores. II. Binary and ternary mixtures and comparison with the experimental data. <i>Journal of Chemical Physics</i> , 2000, 112, 910-922.	1.2	63
63	Image-based modeling of granular porous media. <i>Geophysical Research Letters</i> , 2017, 44, 4738-4746.	1.5	59
64	Accelerating geostatistical simulations using graphics processing units (GPU). <i>Computers and Geosciences</i> , 2012, 46, 51-59.	2.0	58
65	Highly permeable porous silicon carbide support tubes for the preparation of nanoporous inorganic membranes. <i>Journal of Membrane Science</i> , 2014, 451, 192-204.	4.1	57
66	Stochastic shale permeability matching: Three-dimensional characterization and modeling. <i>International Journal of Coal Geology</i> , 2016, 165, 231-242.	1.9	57
67	Statistical Mechanics and Molecular Simulation of Adsorption in Microporous Materials: Pillared Clays and Carbon Molecular Sieve Membranes. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3892-3905.	1.2	55
68	Nonequilibrium molecular dynamics simulations of transport and separation of gas mixtures in nanoporous materials. <i>Physical Review E</i> , 2000, 62, 6942-6948.	0.8	54
69	Pore-scale simulation of flow of CO ₂ and brine in reconstructed and actual 3D rock cores. <i>Journal of Petroleum Science and Engineering</i> , 2017, 155, 21-33.	2.1	54
70	Percolation and fracture in disordered solids and granular media: Approach to a fixed point. <i>Physical Review Letters</i> , 1992, 68, 608-611.	2.9	53
71	Field evaluation of carbon molecular sieve membranes for the separation and purification of hydrogen from coal- and biomass-derived syngas. <i>Journal of Membrane Science</i> , 2014, 450, 81-92.	4.1	53
72	Molecular dynamics simulation of pressure-driven water flow in silicon-carbide nanotubes. <i>Journal of Chemical Physics</i> , 2011, 135, 204509.	1.2	52

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73	Reconstruction of nonstationary disordered materials and media: Watershed transform and cross-correlation function. <i>Physical Review E</i> , 2015, 91, 032401.	0.8	52
74	Molecular Dynamics Simulation of Hydration and Swelling of Mixed-Layer Clays. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14631-14639.	1.5	52
75	Turbulencelike Behavior of Seismic Time Series. <i>Physical Review Letters</i> , 2009, 102, 014101.	2.9	49
76	Long-range correlated percolation and flow and transport in heterogeneous porous media. <i>Journal De Physique, I</i> , 1994, 4, 1263-1268.	1.2	49
77	Transport of macromolecules in porous media. <i>Journal of Chemical Physics</i> , 1992, 96, 4718-4728.	1.2	48
78	Effect of long-range correlations on transport phenomena in disordered media. <i>AIChE Journal</i> , 1995, 41, 229-240.	1.8	48
79	Fabrication of Graphene-Polyimide Nanocomposites with Superior Electrical Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43230-43238.	4.0	47
80	Coarsening of Heterogeneous Media: Application of Wavelets. <i>Physical Review Letters</i> , 1997, 79, 4385-4388.	2.9	46
81	Adsorption Isotherms of Arsenic on Conditioned Layered Double Hydroxides in the Presence of Various Competing Ions. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 2220-2226.	1.8	46
82	Dispersion in porous media, continuous-time random walks, and percolation. <i>Physical Review E</i> , 2012, 85, 016316.	0.8	46
83	Overview of Laboratory and Modeling Studies of Carbon Dioxide Sequestration in Coal Beds. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 2887-2901.	1.8	45
84	Localization of Elastic Waves in Heterogeneous Media with Off-Diagonal Disorder and Long-Range Correlations. <i>Physical Review Letters</i> , 2005, 94, 165505.	2.9	44
85	Analysis of Non-stationary Data for Heart-rate Fluctuations in Terms of Drift and Diffusion Coefficients. <i>Journal of Biological Physics</i> , 2006, 32, 117-128.	0.7	44
86	Self-affine fractal distributions of the bulk density, elastic moduli, and seismic wave velocities of rock. <i>Physical Review E</i> , 2005, 71, 046301.	0.8	43
87	Pore network simulation of imbibition into paper during coating: I. Model development. <i>AIChE Journal</i> , 2001, 47, 519-535.	1.8	42
88	Study of CO ₂ Diffusion and Adsorption on Calcined Layered Double Hydroxides: The Effect of Particle Size. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 6150-6157.	1.8	42
89	Multiresolution Wavelet Scale Up of Unstable Miscible Displacements in Flow Through Heterogeneous Porous Media. <i>Transport in Porous Media</i> , 2004, 57, 75-102.	1.2	40
90	Molecular Dynamics Simulation of Hydration and Swelling of Mixed-Layer Clays in the Presence of Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4243-4255.	1.5	40

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91	Toward a Process-Based Molecular Model of SiC Membranes. 1. Development of a Reactive Force Field. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3308-3319.	1.5	39
92	Reconstruction, optimization, and design of heterogeneous materials and media: Basic principles, computational algorithms, and applications. <i>Physics Reports</i> , 2021, 939, 1-82.	10.3	39
93	Upscaling of the permeability by multiscale wavelet transformations and simulation of multiphase flows in heterogeneous porous media. <i>Computational Geosciences</i> , 2009, 13, 187-214.	1.2	38
94	Geostatistical Simulation and Reconstruction of Porous Media by a Cross-Correlation Function and Integration of Hard and Soft Data. <i>Transport in Porous Media</i> , 2015, 107, 871-905.	1.2	38
95	Nucleation of Salt Crystals in Clay Minerals: Molecular Dynamics Simulation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3166-3172.	2.1	38
96	Renormalization group analysis and numerical simulation of propagation and localization of acoustic waves in heterogeneous media. <i>Physical Review B</i> , 2007, 75, .	1.1	37
97	Hydrogen sorption hysteresis and superior storage capacity of silicon-carbide nanotubes over their carbon counterparts. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21107-21115.	3.8	37
98	Thermal Evolution of the Structure of a Mg ²⁺ Al ³⁺ CO ₃ Layered Double Hydroxide: Sorption Reversibility Aspects. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 4559-4570.	1.8	36
99	Molecular dynamics simulation of diffusion in pillared clays. <i>AIChE Journal</i> , 1995, 41, 456-468.	1.8	35
100	Wavelet identification of the spatial distribution of fractures. <i>Geophysical Research Letters</i> , 2001, 28, 611-614.	1.5	35
101	Pore network model of transport and separation of binary gas mixtures in nanoporous membranes. <i>Journal of Membrane Science</i> , 2008, 315, 48-57.	4.1	35
102	Pore-network model of evaporation-induced salt precipitation in porous media: The effect of correlations and heterogeneity. <i>Advances in Water Resources</i> , 2018, 112, 59-71.	1.7	35
103	Saturation Dependence of Non-Fickian Transport in Porous Media. <i>Water Resources Research</i> , 2019, 55, 1153-1166.	1.7	35
104	Transient Diffusion and Conduction in Heterogeneous Media: Beyond the Classical Effective-Medium Approximation. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 3043-3052.	1.8	34
105	Gas and solute diffusion in partially saturated porous media: Percolation theory and Effective Medium Approximation compared with lattice Boltzmann simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 182-190.	1.4	34
106	Modeling relative permeability of water in soil: Application of effective-medium approximation and percolation theory. <i>Water Resources Research</i> , 2016, 52, 5025-5040.	1.7	34
107	ON THE DETERMINATION OF TRANSPORT PROPERTIES OF DISORDERED SYSTEMS. <i>Chemical Engineering Communications</i> , 1988, 64, 177-195.	1.5	33
108	Upscaling and Simulation of Waterflooding in Heterogeneous Reservoirs Using Wavelet Transformations: Application to the SPE-10 Model. <i>Transport in Porous Media</i> , 2008, 72, 311-338.	1.2	33

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109	Scaling, multifractality, and long-range correlations in well log data of large-scale porous media. <i>Physica A: Statistical Mechanics and its Applications</i> , 2011, 390, 2096-2111.	1.2	33
110	Use of microseismicity for determining the structure of the fracture network of large-scale porous media. <i>Physical Review E</i> , 2013, 87, .	0.8	33
111	Computer simulation of the effect of deformation on the morphology and flow properties of porous media. <i>Physical Review E</i> , 2016, 94, 042903.	0.8	33
112	Experimental investigation of hydrogen adsorption in doped silicon-carbide nanotubes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 369-374.	3.8	33
113	Adsorption-induced swelling of porous media. <i>International Journal of Greenhouse Gas Control</i> , 2017, 57, 1-13.	2.3	33
114	Efficient Transport Between Disjoint Nanochannels by a Water Bridge. <i>Physical Review Letters</i> , 2019, 122, 214506.	2.9	33
115	Dynamics of two-phase flow in porous media: Simultaneous invasion of two fluids. <i>AIChE Journal</i> , 1999, 45, 1365-1382.	1.8	32
116	Pore network model of deactivation of immobilized glucose isomerase in packed-bed reactors. Part III: Multiscale modelling. <i>Chemical Engineering Science</i> , 2003, 58, 4935-4951.	1.9	32
117	Preparation of Hydrotalcite Thin Films Using an Electrophoretic Technique. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 9127-9132.	1.8	32
118	Calculation of the effective permeabilities of field-scale porous media. <i>Chemical Engineering Science</i> , 2000, 55, 4495-4513.	1.9	31
119	Fabrication of silicon carbide membranes on highly permeable supports. <i>Journal of Membrane Science</i> , 2017, 537, 239-247.	4.1	31
120	Nonuniversality of invasion percolation in two-dimensional systems. <i>Physical Review E</i> , 2002, 65, 035101.	0.8	30
121	Pore network simulation of fluid imbibition into paper during coating: II. Characterization of paper's morphology and computation of its effective permeability tensor. <i>Chemical Engineering Science</i> , 2004, 59, 2265-2280.	1.9	30
122	Network model for the evolution of the pore structure of silicon-carbide membranes during their fabrication. <i>Journal of Membrane Science</i> , 2010, 356, 138-146.	4.1	30
123	Process Intensification in Hydrogen Production from Biomass-Derived Syngas. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10986-10993.	1.8	30
124	Two-phase flow of CO ₂ -brine in a heterogeneous sandstone: Characterization of the rock and comparison of the lattice-Boltzmann, pore-network, and direct numerical simulation methods. <i>Advances in Water Resources</i> , 2020, 135, 103469.	1.7	30
125	Pore network simulation of fluid imbibition into paper during coating—III: modelling of the two-phase flow. <i>Chemical Engineering Science</i> , 2004, 59, 2281-2296.	1.9	29
126	Dynamic renormalization group analysis of propagation of elastic waves in two-dimensional heterogeneous media. <i>Physical Review B</i> , 2008, 77, .	1.1	29

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127	Computer simulation of gas generation and transport in landfills. V: Use of artificial neural network and the genetic algorithm for short- and long-term forecasting and planning. <i>Chemical Engineering Science</i> , 2011, 66, 2646-2659.	1.9	29
128	Morphology, propagation dynamics and scaling characteristics of drying fronts in porous media. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	29
129	Multiresolution wavelet coarsening and analysis of transport in heterogeneous media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 316, 160-188.	1.2	28
130	Atomistic simulation of nanoporous layered double hydroxide materials and their properties. I. Structural modeling. <i>Journal of Chemical Physics</i> , 2005, 122, 214713.	1.2	28
131	Generation of long-range correlations in large systems as an optimization problem. <i>Physical Review E</i> , 2006, 73, 056121.	0.8	28
132	Development of optimal models of porous media by combining static and dynamic data: The permeability and porosity distributions. <i>Physical Review E</i> , 2007, 75, 056311.	0.8	28
133	Determination of the true pore size distribution by flow permporometry experiments: An invasion percolation model. <i>Journal of Membrane Science</i> , 2011, 367, 55-62.	4.1	28
134	A Study of the Role of Microfractures in Counter-Current Spontaneous Imbibition by Lattice Boltzmann Simulation. <i>Transport in Porous Media</i> , 2020, 133, 313-332.	1.2	28
135	Diffusion, adsorption, and reaction in pillared clays. I. Rod-like molecules in a regular pore space. <i>Journal of Chemical Physics</i> , 1990, 92, 5107-5118.	1.2	27
136	Molecular dynamics simulation of gas mixtures in porous media. I. Adsorption. <i>Journal of Chemical Physics</i> , 1998, 108, 2178-2188.	1.2	27
137	Nonequilibrium molecular dynamics simulations of transport and separation of supercritical fluid mixtures in nanoporous membranes. I. Results for a single carbon nanopore. <i>Journal of Chemical Physics</i> , 2003, 119, 6810-6822.	1.2	27
138	The Preparation and Characterization of Hydrotalcite Thin Films. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 5794-5801.	1.8	27
139	Electrical Conductivity of Partially Saturated Packings of Particles. <i>Transport in Porous Media</i> , 2017, 118, 1-16.	1.2	27
140	Physics- and image-based prediction of fluid flow and transport in complex porous membranes and materials by deep learning. <i>Journal of Membrane Science</i> , 2021, 622, 119050.	4.1	27
141	Effect of polystyrene on the morphology and physical properties of silicon carbide nanofibers. <i>Materials Chemistry and Physics</i> , 2009, 118, 259-263.	2.0	26
142	Nonuniversality of the Archie exponent due to multifractality of resistivity well logs. <i>Geophysical Research Letters</i> , 2015, 42, 10,655.	1.5	26
143	Nanojunction Effects on Water Flow in Carbon Nanotubes. <i>Scientific Reports</i> , 2018, 8, 7752.	1.6	26
144	Image-based modeling of gas adsorption and deformation in porous media. <i>Scientific Reports</i> , 2018, 8, 8249.	1.6	26

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145	Statistical mechanics and molecular simulation of adsorption of ternary gas mixtures in nanoporous materials. <i>Journal of Chemical Physics</i> , 2001, 114, 7196-7210.	1.2	25
146	Development of optimal models of porous media by combining static and dynamic data: The porosity distribution. <i>Physical Review E</i> , 2006, 74, 026308.	0.8	25
147	Localization properties of acoustic waves in the random-dimer media. <i>Physical Review B</i> , 2008, 78, .	1.1	25
148	Fabrication of high-surface area nanoporous SiOC ceramics using pre-ceramic polymer precursors and a sacrificial template: Precursor effects. <i>Microporous and Mesoporous Materials</i> , 2017, 241, 338-345.	2.2	25
149	Site-bond invasion percolation with fluid trapping. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 260, 231-243.	1.2	24
150	Molecular dynamics simulations of transport and separation of carbon dioxide-alkane mixtures in carbon nanopores. <i>Journal of Chemical Physics</i> , 2004, 120, 8172-8185.	1.2	24
151	Discrete simulation of the dynamics of spread of extreme opinions in a society. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 364, 537-543.	1.2	24
152	Preparation of Polyetherimide Nanoparticles by an Electro spray Technique. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 3348-3357.	1.8	24
153	On the Use of Porous and Nonporous Fillers in the Fabrication of Silicon Carbide Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 10269-10275.	1.8	24
154	Toward a Process-Based Molecular Model of SiC Membranes. 2. Reactive Dynamics Simulation of the Pyrolysis of Polymer Precursor To Form Amorphous SiC. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3320-3329.	1.5	24
155	Hertz-Mindlin Theory of Contacting Grains and the Effective-Medium Approximation for the Permeability of Deforming Porous Media. <i>Geophysical Research Letters</i> , 2019, 46, 8039-8045.	1.5	24
156	Molecular Dynamics Study of the Effect of Layer Charge and Interlayer Cations on Swelling of Mixed-Layer Chlorite-Montmorillonite Clays. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2553-2561.	1.5	24
157	Simulating fluid flow in complex porous materials by integrating the governing equations with deep-layered machines. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	24
158	Atomistic simulation of nanoporous layered double hydroxide materials and their properties. II. Adsorption and diffusion. <i>Journal of Chemical Physics</i> , 2007, 127, 224701.	1.2	23
159	Experimental studies and computer simulation of the preparation of nanoporous silicon-carbide membranes by chemical-vapor infiltration/chemical-vapor deposition techniques. <i>Chemical Engineering Science</i> , 2008, 63, 1460-1470.	1.9	23
160	Microstructural characterization of random packings of cubic particles. <i>Scientific Reports</i> , 2016, 6, 35024.	1.6	23
161	On correction to scaling for two- and three-dimensional scalar and vector percolation. <i>Journal of Statistical Physics</i> , 1991, 62, 453-461.	0.5	22
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