

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	Enhanced thermal fingering in a shear-thinning fluid flow through porous media: Dynamic pore network modeling. <i>Physics of Fluids</i> , 2022, 34, .	1.6	9
2	Percolation and Polymer Morphology and Rheology. , 2021, , 379-404.		0
3	Molecular Dynamics Study of Structure, Folding, and Aggregation of Poly-PR and Poly-GR Proteins. <i>Biophysical Journal</i> , 2021, 120, 64-72.	0.2	8
4	Speeding-up Simulation of Multiphase Flow in Digital Images of Heterogeneous Porous Media by Curvelet Transformation. <i>Transport in Porous Media</i> , 2021, 137, 215-232.	1.2	2
5	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
6	Elastic moduli of body-centered cubic lattice near rigidity percolation threshold: Finite-size effects and evidence for first-order phase transition. <i>Physical Review E</i> , 2021, 103, 042314.	0.8	1
7	Fast simulation of two-phase flow in three-dimensional digital images of heterogeneous porous media using multiresolution curvelet transformation. <i>Advances in Water Resources</i> , 2021, 150, 103882.	1.7	2
8	Flow and Transport Properties of Deforming Porous Media. I. Permeability. <i>Transport in Porous Media</i> , 2021, 138, 577-609.	1.2	2
9	Flow and Transport Properties of Deforming Porous Media. II. Electrical Conductivity. <i>Transport in Porous Media</i> , 2021, 138, 611-636.	1.2	3
10	Graphyne-3: a highly efficient candidate for separation of small gas molecules from gaseous mixtures. <i>Scientific Reports</i> , 2021, 11, 16325.	1.6	7
11	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
12	Estimating Dispersion Coefficient in Flow Through Heterogeneous Porous Media by a Deep Convolutional Neural Network. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094443.	1.5	9
13	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
14	Universal Intrinsic Dynamics and Freezing of Water in Small Nanotubes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 946-956.	1.5	5
15	Speeding-up image-based simulation of two-phase flow in porous media with lattice-Boltzmann method using three-dimensional curvelet transforms. <i>Physics of Fluids</i> , 2021, 33, .	1.6	7
16	sDMD: An open source program for discontinuous molecular dynamics simulation of protein folding and aggregation. <i>Computer Physics Communications</i> , 2020, 247, 106873.	3.0	6
17	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
18	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

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19	Efficient Image-Based Simulation of Flow and Transport in Heterogeneous Porous Media: Application of Curvelet Transforms. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085671.	1.5	6
20	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
21	Phase transitions, percolation, fracture of materials, and deep learning. <i>Physical Review E</i> , 2020, 102, 011001.	0.8	5
22	Formation of a Stable Bridge between Two Disjoint Nanotubes with Single-File Chains of Water. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8340-8346.	1.2	13
23	Identifying the Optimal Path and Computing the Threshold Pressure for Flow of Bingham Fluids Through Heterogeneous Porous Media. <i>Transport in Porous Media</i> , 2020, 135, 779-798.	1.2	5
24	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
25	Machine learning in geo- and environmental sciences: From small to large scale. <i>Advances in Water Resources</i> , 2020, 142, 103619.	1.7	138
26	Nanoscale detection of metastable states in porous and granular media. <i>Journal of Applied Physics</i> , 2020, 127, 024901.	1.1	4
27	Quantifying accuracy of stochastic methods of reconstructing complex materials by deep learning. <i>Physical Review E</i> , 2020, 101, 043301.	0.8	19
28	Molecular origin of sliding friction and flash heating in rock and heterogeneous materials. <i>Scientific Reports</i> , 2020, 10, 22264.	1.6	1
29	Wetting and Drying Transitions of Water Nanodroplets on Suspended Graphene Bilayers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28152-28158.	1.5	4
30	Enhancing images of shale formations by a hybrid stochastic and deep learning algorithm. <i>Neural Networks</i> , 2019, 118, 310-320.	3.3	69
31	Regulation of migration of chemotactic tumor cells by the spatial distribution of collagen fiber orientation. <i>Physical Review E</i> , 2019, 99, 062414.	0.8	17
32	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
33	Morphology and kinetics of random sequential adsorption of superballs: From hexapods to cubes. <i>Physical Review E</i> , 2019, 100, 020602.	0.8	5
34	Saturation Dependence of Non-Fickian Transport in Porous Media. <i>Water Resources Research</i> , 2019, 55, 1153-1166.	1.7	35
35	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
36	Efficient Transport Between Disjoint Nanochannels by a Water Bridge. <i>Physical Review Letters</i> , 2019, 122, 214506.	2.9	33

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37	Exact enumeration approach to first-passage time distribution of non-Markov random walks. <i>Physical Review E</i> , 2019, 99, 062101.	0.8	7
38	Molecular dynamics study of structure, folding, and aggregation of poly-glycine-alanine (Poly-GA). <i>Journal of Chemical Physics</i> , 2019, 150, 144307.	1.2	7
39	Sliding friction between two silicon-carbide surfaces. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	5
40	Upscaling of Geological Models of Oil Reservoirs with Unstructured Grids Using Lifting-Based Graph Wavelet Transforms. <i>Transport in Porous Media</i> , 2019, 127, 661-684.	1.2	18
41	Effect of heterogeneity and spatial correlations on the structure of a tumor invasion front in cellular environments. <i>Physical Review E</i> , 2019, 100, 062409.	0.8	9
42	Thermal Conduction in Deforming Isotropic and Anisotropic Granular Porous Media with Rough Grain Surface. <i>Transport in Porous Media</i> , 2018, 124, 221-236.	1.2	6
43	Role of the Interplay Between the Internal and External Conditions in Invasive Behavior of Tumors. <i>Scientific Reports</i> , 2018, 8, 5968.	1.6	9
44	Dynamics of proteins aggregation. II. Dynamic scaling in confined media. <i>Journal of Chemical Physics</i> , 2018, 148, 104305.	1.2	9
45	Theoretical Model and Numerical Simulation of Adsorption and Deformation in Flexible Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9465-9473.	1.5	13
46	Rapid Learning-Based and Geologically Consistent History Matching. <i>Transport in Porous Media</i> , 2018, 122, 279-304.	1.2	18
47	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
48	Higher-order correlation functions in disordered media: Computational algorithms and application to two-phase heterogeneous materials. <i>Physical Review E</i> , 2018, 98, .	0.8	22
49	Effect of Elastic Deformation and Rough Grain Surface on Heat Conduction in Partially Saturated Granular Porous Media. <i>Water Resources Research</i> , 2018, 54, 9533-9548.	1.7	8
50	Nanojunction Effects on Water Flow in Carbon Nanotubes. <i>Scientific Reports</i> , 2018, 8, 7752.	1.6	26
51	Effect of the geometry of confining media on the stability and folding rate of α -helix proteins. <i>Journal of Chemical Physics</i> , 2018, 148, 194305.	1.2	3
52	Image-based modeling of gas adsorption and deformation in porous media. <i>Scientific Reports</i> , 2018, 8, 8249.	1.6	26
53	A stochastic multiscale algorithm for modeling complex granular materials. <i>Granular Matter</i> , 2018, 20, 1.	1.1	21
54	Complex Behavior of Ordered and Ice-like Water in Carbon Nanotubes near Its Bulk Boiling Point. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4746-4752.	2.1	8

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55	Editorial to the Special Issue on Reconstruction of Porous Media and Materials and Its Applications. <i>Transport in Porous Media</i> , 2018, 125, 1-3.	1.2	5
56	Iodine k-edge dual energy imaging reveals the influence of particle size distribution on solute transport in drying porous media. <i>Scientific Reports</i> , 2018, 8, 10731.	1.6	15
57	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
58	Electrical Conductivity of Partially Saturated Packings of Particles. <i>Transport in Porous Media</i> , 2017, 118, 1-16.	1.2	27
59	Image-based modeling of granular porous media. <i>Geophysical Research Letters</i> , 2017, 44, 4738-4746.	1.5	59
60	Fabrication of silicon carbide membranes on highly permeable supports. <i>Journal of Membrane Science</i> , 2017, 537, 239-247.	4.1	31
61	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
62	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
63	Adsorption-induced swelling of porous media. <i>International Journal of Greenhouse Gas Control</i> , 2017, 57, 1-13.	2.3	33
64	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
65	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
66	Effect of deformation on the thermal conductivity of granular porous media with rough grain surface. <i>Geophysical Research Letters</i> , 2017, 44, 8285-8293.	1.5	18
67	Fabrication of Graphene-Polyimide Nanocomposites with Superior Electrical Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43230-43238.	4.0	47
68	Nucleation of Salt Crystals in Clay Minerals: Molecular Dynamics Simulation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3166-3172.	2.1	38
69	Direct Modeling of Granular Materials. , 2017, , .		2
70	Statistical characterization of microstructure of packings of polydisperse hard cubes. <i>Physical Review E</i> , 2017, 95, 052902.	0.8	14
71	Enhancing multiple-point geostatistical modeling: 2. Iterative simulation and multiple distance function. <i>Water Resources Research</i> , 2016, 52, 2099-2122.	1.7	68
72	Enhancing multiple-point geostatistical modeling: 1. Graph theory and pattern adjustment. <i>Water Resources Research</i> , 2016, 52, 2074-2098.	1.7	74

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73	Packing of nonoverlapping cubic particles: Computational algorithms and microstructural characteristics. <i>Physical Review E</i> , 2016, 94, 062901.	0.8	14
74	Static and dynamic properties of supercooled water in small nanotubes. <i>Journal of Chemical Physics</i> , 2016, 145, 024502.	1.2	9
75	Dynamics of proteins aggregation. I. Universal scaling in unbounded media. <i>Journal of Chemical Physics</i> , 2016, 145, 134306.	1.2	9
76	Pore-Network Simulation of Unstable Miscible Displacements in Porous Media. <i>Transport in Porous Media</i> , 2016, 113, 511-529.	1.2	13
77	Stochastic shale permeability matching: Three-dimensional characterization and modeling. <i>International Journal of Coal Geology</i> , 2016, 165, 231-242.	1.9	57
78	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
79	Upscaling of solute transport in disordered porous media by wavelet transformations. <i>Advances in Water Resources</i> , 2016, 96, 180-189.	1.7	22
80	Acoustic wave propagation in heterogeneous two-dimensional fractured porous media. <i>Physical Review E</i> , 2016, 93, 063305.	0.8	14
81	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
82	Interoccurrence time statistics in fully-developed turbulence. <i>Scientific Reports</i> , 2016, 6, 27452.	1.6	10
83	Microstructural characterization of random packings of cubic particles. <i>Scientific Reports</i> , 2016, 6, 35024.	1.6	23
84	Molecular Simulation Study of Gas Solubility and Diffusion in a Polymer-Boron Nitride Nanotube Composite. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1273-1284.	1.2	18
85	Multiscale study for stochastic characterization of shale samples. <i>Advances in Water Resources</i> , 2016, 89, 91-103.	1.7	81
86	Molecular Dynamics Simulation of Transport and Separation of Carbon Dioxide-Alkane Mixtures in a Nanoporous Membrane Under Sub- and Supercritical Conditions. <i>Transport in Porous Media</i> , 2016, 115, 495-518.	1.2	5
87	Experimental investigation of hydrogen adsorption in doped silicon-carbide nanotubes. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 369-374.	3.8	33
88	Multiscale and multiresolution modeling of shales and their flow and morphological properties. <i>Scientific Reports</i> , 2015, 5, 16373.	1.6	74
89	Dynamics of supercooled water in nanotubes: Cage correlation function and diffusion coefficient. <i>Physical Review E</i> , 2015, 92, 030301.	0.8	12
90	Denoising of Seismic Data Using Curvelet Transformation: The Effect of on the Content of the Data. , 2015, , .		1

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91	Nonuniversality of the Archie exponent due to multifractality of resistivity well logs. <i>Geophysical Research Letters</i> , 2015, 42, 10,655.	1.5	26
92	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
93	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
94	Reconstruction of nonstationary disordered materials and media: Watershed transform and cross-correlation function. <i>Physical Review E</i> , 2015, 91, 032401.	0.8	52
95	Solubility and diffusivity of H ₂ and CO ₂ in the ionic liquid [bmim][PF ₆]. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8713-8720.	3.8	18
96	Fabrication of high-surface area nanoporous SiOC materials using pre-ceramic polymer blends and a sacrificial template. <i>Microporous and Mesoporous Materials</i> , 2015, 210, 77-85.	2.2	14
97	First principles-based multiparadigm, multiscale strategy for simulating complex materials processes with applications to amorphous SiC films. <i>Journal of Chemical Physics</i> , 2015, 142, 174703.	1.2	10
98	Three-Dimensional Stochastic Characterization of Shale SEM Images. <i>Transport in Porous Media</i> , 2015, 110, 521-531.	1.2	100
99	Toward a process-based molecular model of SiC membranes: III. Prediction of transport and separation of binary gaseous mixtures based on the atomistic reactive force field. <i>Journal of Membrane Science</i> , 2015, 473, 85-93.	4.1	12
100	Electro-osmotic flow in disordered porous and fractured media. <i>Physical Review E</i> , 2014, 89, 033007.	0.8	9
101	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
102	Coherence index and curvelet transformation for denoising geophysical data. <i>Physical Review E</i> , 2014, 90, 042810.	0.8	5
103	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
104	Fabrication of nanoporous silicon oxycarbide materials using layered double-hydroxide as a sacrificial template. <i>Microporous and Mesoporous Materials</i> , 2014, 190, 267-274.	2.2	9
105	Wave propagation in disordered fractured porous media. <i>Physical Review E</i> , 2014, 89, 023301.	0.8	7
106	Molecular dynamics simulation of formation and growth of CdS nanoparticles. <i>Molecular Simulation</i> , 2014, 40, 361-369.	0.9	1
107	Chemisorption, physisorption and hysteresis during hydrogen storage in carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1390-1397.	3.8	88
108	Hydrogen Production from Biomass-Derived Syngas Using a Membrane Reactor Based Process. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 819-827.	1.8	18

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109	Ensembles-based and GA-based optimization for landfill gas production. AICHE Journal, 2014, 60, 2063-2071.	1.8	6
110	MS-CCSIM: Accelerating pattern-based geostatistical simulation of categorical variables using a multi-scale search in Fourier space. Computers and Geosciences, 2014, 67, 75-88.	2.0	87
111	Highly permeable porous silicon carbide support tubes for the preparation of nanoporous inorganic membranes. Journal of Membrane Science, 2014, 451, 192-204.	4.1	57
112	Analysis of pressure fluctuations in fluidized beds. III. The significance of the cross correlations. Chemical Engineering Science, 2013, 101, 390-400.	1.9	9
113	Mechanical properties of heat-treated organic foams. Physical Review E, 2013, 87, .	0.8	14
114	Use of microseismicity for determining the structure of the fracture network of large-scale porous media. Physical Review E, 2013, 87, .	0.8	33
115	On the Use of Porous and Nonporous Fillers in the Fabrication of Silicon Carbide Membranes. Industrial & Engineering Chemistry Research, 2013, 52, 10269-10275.	1.8	24
116	Toward a Process-Based Molecular Model of SiC Membranes. 1. Development of a Reactive Force Field. Journal of Physical Chemistry C, 2013, 117, 3308-3319.	1.5	39
117	Toward a Process-Based Molecular Model of SiC Membranes. 2. Reactive Dynamics Simulation of the Pyrolysis of Polymer Precursor To Form Amorphous SiC. Journal of Physical Chemistry C, 2013, 117, 3320-3329.	1.5	24
118	Cross-Correlation Function for Accurate Reconstruction of Heterogeneous Media. Physical Review Letters, 2013, 110, 078002.	2.9	148
119	Tortuosity in Porous Media: A Critical Review. Soil Science Society of America Journal, 2013, 77, 1461-1477.	1.2	569
120	Percolation Theory Generates a Physically Based Description of Tortuosity in Saturated and Unsaturated Porous Media. Soil Science Society of America Journal, 2013, 77, 1920-1929.	1.2	87
121	Dispersion in porous media, continuous-time random walks, and percolation. Physical Review E, 2012, 85, 016316.	0.8	46
122	Reconstruction of three-dimensional porous media using a single thin section. Physical Review E, 2012, 85, 066709.	0.8	131
123	Morphology, propagation dynamics and scaling characteristics of drying fronts in porous media. Geophysical Research Letters, 2012, 39, .	1.5	29
124	Accelerating geostatistical simulations using graphics processing units (GPU). Computers and Geosciences, 2012, 46, 51-59.	2.0	58
125	Multiple-point geostatistical modeling based on the cross-correlation functions. Computational Geosciences, 2012, 16, 779-797.	1.2	238
126	Computer simulation of gas generation and transport in landfills: Dynamic updating of the model using the ensemble Kalman filter. Chemical Engineering Science, 2012, 74, 69-78.	1.9	15

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127	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
128	Molecular dynamics simulation of pressure-driven water flow in silicon-carbide nanotubes. <i>Journal of Chemical Physics</i> , 2011, 135, 204509.	1.2	52
129	Approaching complexity by stochastic methods: From biological systems to turbulence. <i>Physics Reports</i> , 2011, 506, 87-162.	10.3	258
130	Analysis of Cross Correlations Between Well Logs of Hydrocarbon Reservoirs. <i>Transport in Porous Media</i> , 2011, 90, 445-464.	1.2	21
131	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
132	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
133	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
134	Analysis of porosity distribution of large-scale porous media and their reconstruction by Langevin equation. <i>Physical Review E</i> , 2011, 83, 026309.	0.8	7
135	Confinement in nanopores can destabilize α -helix folding proteins and stabilize the β structures. <i>Journal of Chemical Physics</i> , 2011, 135, 125101.	1.2	17
136	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
137	Upscaled Unstructured Computational Grids for Efficient Simulation of Flow in Fractured Porous Media. <i>Transport in Porous Media</i> , 2010, 83, 195-218.	1.2	22
138	Efficient Computational Strategies for Solving Global Optimization Problems. <i>Computing in Science and Engineering</i> , 2010, 12, 74-83.	1.2	19
139	Controlled nucleation and growth of CdS nanoparticles by turbulent dispersion. <i>Physical Review E</i> , 2010, 81, 026304.	0.8	13
140	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
141	Process Intensification in Hydrogen Production from Biomass-Derived Syngas. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 10986-10993.	1.8	30
142	Anomalous fluctuations of vertical velocity of Earth and their possible implications for earthquakes. <i>Physical Review E</i> , 2010, 82, 036105.	0.8	12
143	Numerical simulations of localization of electromagnetic waves in two- and three-dimensional disordered media. <i>Physical Review B</i> , 2009, 80, .	1.1	13
144	ANALYSIS AND SIMULATION OF LONG-RANGE CORRELATIONS IN CURVED SPACE. <i>International Journal of Modern Physics C</i> , 2009, 20, 1211-1232.	0.8	6

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145	Upscaling of the Geological Models of Large-Scale Porous Media Using Multiresolution Wavelet Transformations. <i>Journal of Heat Transfer</i> , 2009, 131, .	1.2	10
146	Molecular simulation of protein dynamics in nanopores. II. Diffusion. <i>Journal of Chemical Physics</i> , 2009, 130, 085105.	1.2	22
147	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
148	Propagation and localization of acoustic and elastic waves in heterogeneous materials: renormalization group analysis and numerical simulations. <i>Acta Mechanica</i> , 2009, 205, 197-222.	1.1	3
149	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
150	Molecular pore-network model for nanoporous materials. I: Application to adsorption in silicon-carbide membranes. <i>Journal of Membrane Science</i> , 2009, 335, 5-12.	4.1	20
151	Molecular pore-network model for nanoporous materials. II: Application to transport and separation of gaseous mixtures in silicon-carbide membranes. <i>Journal of Membrane Science</i> , 2009, 345, 323-330.	4.1	20
152	Mapping stochastic processes onto complex networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P07046.	0.9	67
153	The Preparation and Characterization of Hydrotalcite Thin Films. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 5794-5801.	1.8	27
154	Turbulencelike Behavior of Seismic Time Series. <i>Physical Review Letters</i> , 2009, 102, 014101.	2.9	49
155	A PERCOLATION MODEL OF MOBILE AD-HOC NETWORKS. <i>International Journal of Modern Physics C</i> , 2009, 20, 1871-1902.	0.8	11
156	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
157	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
158	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
159	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
160	Preparation of Hydrotalcite Thin Films Using an Electrophoretic Technique. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 9127-9132.	1.8	32
161	Reply to "Comment on "Renormalization group analysis and numerical simulation of propagation and localization of acoustic waves in heterogeneous media". <i>Physical Review B</i> , 2008, 77, .	1.1	10
162	Exact Lyapunov exponent of the harmonic magnon modes of one-dimensional Heisenberg-Mattis spin glasses. <i>Physical Review B</i> , 2008, 77, .	1.1	2

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163	Numerical simulation of the localization of elastic waves in two- and three-dimensional heterogeneous media. <i>Physical Review B</i> , 2008, 78, .	1.1	21
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