

Jianchao Cai

List of Publications by Year in descending order

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197
papers

8,074
citations

41344

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56724

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200
all docs

200
docs citations

200
times ranked

4649
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of new vortices in single-phase nanofluid due to dipole interaction. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 461-475.	3.6	10
2	Key factors of marine shale conductivity in southern China—Part II: The influence of pore system and the development direction of shale gas saturation models. <i>Journal of Petroleum Science and Engineering</i> , 2022, 209, 109516.	4.2	39
3	Permeability estimation of tight sandstone from pore structure characterization. <i>Marine and Petroleum Geology</i> , 2022, 135, 105382.	3.3	17
4	Pore-scale characterization and fractal analysis for gas migration mechanisms in shale gas reservoirs. , 2022, , 1-27.		0
5	Application of few-shot semisupervised deep learning in organic matter content logging evaluation. , 2022, , 197-218.		0
6	Hydraulic fracturing of unconventional reservoirs aided by simulation technologies. , 2022, , 107-141.		1
7	Impacts of gas properties and transport mechanisms on the permeability of shale at pore and core scale. <i>Energy</i> , 2022, 244, 122707.	8.8	17
8	A Comprehensive Review of Factors Affecting Dynamic Capillary Effect in Two-Phase Flow. <i>Transport in Porous Media</i> , 2022, 144, 33-54.	2.6	6
9	Effects of grain shape and packing pattern on spontaneous imbibition under different boundary conditions: Pore-scale simulation. <i>Journal of Hydrology</i> , 2022, 607, 127484.	5.4	12
10	A Pore Network Approach to Study Throat Size Effect on the Permeability of Reconstructed Porous Media. <i>Water (Switzerland)</i> , 2022, 14, 77.	2.7	7
11	Capillary imbibition and flow of wetting liquid in irregular capillaries: A 100-year review. <i>Advances in Colloid and Interface Science</i> , 2022, 304, 102654.	14.7	44
12	Experiments and phase-field simulation of counter-current imbibition in porous media with different pore structure. <i>Journal of Hydrology</i> , 2022, 608, 127670.	5.4	12
13	Recent Advances in Multiscale Petrophysics Characterization and Multiphase Flow in Unconventional Reservoirs. <i>Energies</i> , 2022, 15, 2874.	3.1	1
14	Subsurface temperature prediction by means of the coefficient correction method of the optimal temperature: A case study in the Xiong'an New Area, China. <i>Geophysics</i> , 2022, 87, B269-B285.	2.6	3
15	Fractal Analysis of Pore Structure Differences Between Shale and Sandstone Based on the Nitrogen Adsorption Method. <i>Natural Resources Research</i> , 2022, 31, 1759-1773.	4.7	14
16	Analytical Time-Dependent Shape Factor for Counter-Current Imbibition in Fractal Fractured Reservoirs. <i>SPE Journal</i> , 2022, 27, 3783-3801.	3.1	1
17	A unified effective medium modeling framework for quantitative characterization of hydrate reservoirs. <i>Geophysics</i> , 2022, 87, MR219-MR234.	2.6	3
18	Influence of Pore Morphology on Permeability through Digital Rock Modeling: New Insights from the Euler Number and Shape Factor. <i>Energy & Fuels</i> , 2022, 36, 7519-7530.	5.1	10

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19	Fractal analyses on saturation exponent in Archie's law for electrical properties of hydrate-bearing porous media. Journal of Petroleum Science and Engineering, 2021, 196, 107642.	4.2	15
20	Semi-analytical model for pumping tests in discretely fractured aquifers. Journal of Hydrology, 2021, 593, 125737.	5.4	5
21	Influence of fractal surface roughness on multiphase flow behavior: Lattice Boltzmann simulation. International Journal of Multiphase Flow, 2021, 134, 103497.	3.4	17
22	Fractal analysis on conductive heat transfer in porous media. , 2021, , 119-139.		1
23	A brief introduction to flow and transport in fractal porous media. , 2021, , 1-10.		2
24	Pore-Scale Modelling of Three-Phase Capillary Pressure Curves Directly in Uniformly Wet Rock Images. Geofluids, 2021, 2021, 1-15.	0.7	2
25	Fractal structural parameters from images: Fractal dimension, lacunarity, and succolarity. , 2021, , 11-24.		2
26	Tortuosity in two-dimensional and three-dimensional fractal porous media: A numerical analysis. , 2021, , 25-36.		1
27	Micro-Nanopore Structure and Fractal Characteristics of Tight Sandstone Gas Reservoirs in the Eastern Ordos Basin, China. Journal of Nanoscience and Nanotechnology, 2021, 21, 234-245.	0.9	12
28	Fractal characteristics of pore structure and its impact on adsorption and flow behaviors in shale. , 2021, , 37-77.		0
29	Experimental and Fractal Characterization of the Microstructure of Shales from Sichuan Basin, China. Energy & Fuels, 2021, 35, 3899-3914.	5.1	25
30	Adsorption Characteristics and Thermodynamic Analysis of CH ₄ and CO ₂ on Continental and Marine Shale. Transport in Porous Media, 2021, 140, 763-788.	2.6	25
31	Advances in multiscale numerical and experimental approaches for multiphysics problems in porous media. Advances in Geo-Energy Research, 2021, 5, 233-238.	6.0	24
32	High-pressure methane adsorption behavior on deep shales: Experiments and modeling. Physics of Fluids, 2021, 33, .	4.0	80
33	Review on space energy. Applied Energy, 2021, 292, 116896.	10.1	35
34	Numerical Study of Lorentz Force Interaction with Micro Structure in Channel Flow. Energies, 2021, 14, 4286.	3.1	24
35	FRACTAL ANALYSES OF THE SHAPE FACTOR IN KOZENYÁ€“CARMAN EQUATION FOR HYDRAULIC PERMEABILITY IN HYDRATE-BEARING SEDIMENTS. Fractals, 2021, 29, .	3.7	10
36	Simulation of coal microstructure characteristics under temperature-pressure coupling based on micro-computer tomography. Journal of Natural Gas Science and Engineering, 2021, 91, 103906.	4.4	5

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37	A fractal-based approach to evaluate the effect of microstructure on the permeability of two-dimensional porous media. <i>Applied Geochemistry</i> , 2021, 131, 105013.	3.0	8
38	Pore-scale heterogeneity of tight gas sandstone: Origins and impacts. <i>Journal of Natural Gas Science and Engineering</i> , 2021, , 104248.	4.4	9
39	Effects of microstructural and petrophysical properties on spontaneous imbibition in tight sandstone reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104225.	4.4	18
40	Effects of Fracture Characteristics on Spontaneous Imbibition in a Tight Reservoir. <i>Energy & Fuels</i> , 2021, 35, 15995-16006.	5.1	12
41	Key factors of marine shale conductivity in southern China—Part I: The influence factors other than porosity. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108698.	4.2	13
42	Lucas—Washburn Equation-Based Modeling of Capillary-Driven Flow in Porous Systems. <i>Langmuir</i> , 2021, 37, 1623-1636.	3.5	165
43	Transport property and application of tree-shaped network. , 2021, , 141-163.		2
44	Numerical Investigation for Three-Dimensional Multiscale Fracture Networks Based on a Coupled Hybrid Model. <i>Energies</i> , 2021, 14, 6354.	3.1	4
45	Chemical Potential-Based Modeling of Shale Gas Transport. <i>Geofluids</i> , 2021, 2021, 1-16.	0.7	4
46	Controlling Factor Analysis of Microstructural Property and Storage Capacity of Deep Longmaxi Formation Shale in Sichuan Basin. <i>Energy & Fuels</i> , 2021, 35, 20092-20102.	5.1	17
47	Capillarity in porous media: Recent advances and challenges. <i>Oil and Gas Science and Technology</i> , 2021, 76, E3.	1.4	1
48	Estimation of gas-in-place content in coal and shale reservoirs: A process analysis method and its preliminary application. <i>Fuel</i> , 2020, 259, 116266.	6.4	61
49	Hydrate growth in quartzitic sands and implication of pore fractal characteristics to hydraulic, mechanical, and electrical properties of hydrate-bearing sediments. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 75, 103109.	4.4	44
50	CO ₂ -water-shale interaction induced shale microstructural alteration. <i>Fuel</i> , 2020, 263, 116642.	6.4	65
51	Fractal analysis of shape factor for matrix-fracture transfer function in fractured reservoirs. <i>Oil and Gas Science and Technology</i> , 2020, 75, 47.	1.4	9
52	Energy stable and mass conservative numerical method for a generalized hydrodynamic phase-field model with different densities. <i>Physics of Fluids</i> , 2020, 32, .	4.0	19
53	A Digital Twin for Unconventional Reservoirs: A Multiscale Modeling and Algorithm to Investigate Complex Mechanisms. <i>Geofluids</i> , 2020, 2020, 1-12.	0.7	9
54	Unsteady flow to a partially penetrating pumping well with wellbore storage in a dual-permeability confined aquifer. <i>Journal of Hydrology</i> , 2020, 591, 125345.	5.4	8

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55	Influence of Capillarity on Relative Permeability in Fractional Flows. <i>Water Resources Research</i> , 2020, 56, e2020WR027624.	4.2	13
56	FRactal MODELS FOR GASâ€“WATER TRANSPORT IN SHALE POROUS MEDIA CONSIDERING WETTING CHARACTERISTICS. <i>Fractals</i> , 2020, 28, 2050138.	3.7	5
57	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.	2.6	28
58	Lattice Boltzmann simulation and fractal analysis of effective thermal conductivity in porous media. <i>Applied Thermal Engineering</i> , 2020, 180, 115562.	6.0	24
59	Oscillations of free surface at the edge of short capillary tubes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 591, 124572.	4.7	6
60	Experimental and Numerical Study on the Anisotropic and Nonlinear Gas Flow Behavior of a Single Coal Fracture under Loading. <i>Energy & Fuels</i> , 2020, 34, 4230-4242.	5.1	13
61	Recent advances in carbon dioxide utilization. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 125, 109799.	16.4	369
62	Experimental Investigation of Spontaneous Imbibition of Water into Hydrate Sediments Using Nuclear Magnetic Resonance Method. <i>Energies</i> , 2020, 13, 445.	3.1	9
63	Creeping microstructure and fractal permeability model of natural gas hydrate reservoir. <i>Marine and Petroleum Geology</i> , 2020, 115, 104282.	3.3	73
64	The influence of salinity and mineral components on spontaneous imbibition in tight sandstone. <i>Fuel</i> , 2020, 269, 117087.	6.4	79
65	Prediction and analysis of net ecosystem carbon exchange based on gradient boosting regression and random forest. <i>Applied Energy</i> , 2020, 262, 114566.	10.1	110
66	Pore Fractal Characteristics of Hydrateâ€“Bearing Sands and Implications to the Saturated Water Permeability. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018721.	3.4	41
67	A brief review of dynamic capillarity effect and its characteristics in low permeability and tight reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2020, 189, 106959.	4.2	28
68	Stabilized Energy Factorization Approach for Allenâ€“Cahn Equation with Logarithmic Floryâ€“Huggins Potential. <i>Journal of Scientific Computing</i> , 2020, 82, 1.	2.3	26
69	The effects of solvent extraction on nanoporosity of marine-continental coal and mudstone. <i>Fuel</i> , 2019, 235, 72-84.	6.4	56
70	A Feature-Based Stochastic Permeability of Shale: Part 1â€“Validation and Two-Phase Permeability in a Utica Shale Sample. <i>Transport in Porous Media</i> , 2019, 126, 527-560.	2.6	23
71	A Feature-Based Stochastic Permeability of Shale: Part 2â€“Predicting Field-Scale Permeability. <i>Transport in Porous Media</i> , 2019, 126, 561-578.	2.6	14
72	A Practical Method to Compensate for the Effect of Echo Spacing on the Shale NMR T 2 Spectrum. <i>Earth and Space Science</i> , 2019, 6, 1489-1497.	2.6	5

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73	Permeability Evolution at Various Pressure Gradients in Natural Gas Hydrate Reservoir at the Shenhu Area in the South China Sea. <i>Energies</i> , 2019, 12, 3688.	3.1	16
74	The critical factors for permeability-formation factor relation in reservoir rocks: Pore-throat ratio, tortuosity and connectivity. <i>Energy</i> , 2019, 188, 116051.	8.8	92
75	An analysis of fractal dimension and tortuosity based on 2D numerical reconstruction model of reservoir rocks. <i>Interpretation</i> , 2019, 7, SJ1-SJ6.	1.1	4
76	Fractal dimension, lacunarity and succolarity analyses on CT images of reservoir rocks for permeability prediction. <i>Journal of Hydrology</i> , 2019, 579, 124198.	5.4	106
77	Scaling of Countercurrent Imbibition in 2D Matrix Blocks With Different Boundary Conditions. <i>SPE Journal</i> , 2019, 24, 1179-1191.	3.1	16
78	Microdistribution and mobility of water in gas shale: A theoretical and experimental study. <i>Marine and Petroleum Geology</i> , 2019, 102, 496-507.	3.3	76
79	Emerging Advances in Petrophysics: Porous Media Characterization and Modeling of Multiphase Flow. <i>Energies</i> , 2019, 12, 282.	3.1	7
80	A Coupled Model of Two-Phase Fluid Flow and Heat Transfer to Transient Temperature Distribution and Seepage Characteristics for Water-Flooding Production Well with Multiple Pay Zones. <i>Energies</i> , 2019, 12, 1854.	3.1	3
81	Recent Advances in Flow and Transport Properties of Unconventional Reservoirs. <i>Energies</i> , 2019, 12, 1865.	3.1	11
82	A Mathematical Model for Determining Oil Migration Characteristics in Low-Permeability Porous Media Based on Fractal Theory. <i>Transport in Porous Media</i> , 2019, 129, 633-652.	2.6	10
83	A Fractal Approach for Predicting Unsaturated Hydraulic Conductivity of Deformable Clay. <i>Geofluids</i> , 2019, 2019, 1-9.	0.7	9
84	A simple permeability model for shale gas and key insights on relative importance of various transport mechanisms. <i>Fuel</i> , 2019, 252, 210-219.	6.4	89
85	A more generalized model for relative permeability prediction in unsaturated fractal porous media. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 67, 82-92.	4.4	19
86	Fractal characteristics of unsaturated sands and implications to relative permeability in hydrate-bearing sediments. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 66, 11-17.	4.4	60
87	Capillary Pressure Curve Determination Based on a 2D Cross-Section Analysis Via Fractal Geometry: A Bridge Between 2D and 3D Pore Structure of Porous Media. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 2352-2367.	3.4	16
88	Microscopic Studies of Immiscible Displacement Behavior in Interconnected Fractures and Cavities. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	2.3	7
89	A UNIFIED FRACTAL MODEL FOR PERMEABILITY COEFFICIENT OF UNSATURATED SOIL. <i>Fractals</i> , 2019, 27, 1940012.	3.7	15
90	Characterization of Petrophysical Properties in Tight Sandstone Reservoirs. , 2019, , 37-59.		2

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91	Multifractal Analysis of Pore Structure of Tight Oil Reservoirs Using Low-Field NMR Measurements. , 2019, , 61-82.		2
92	Investigation and Quantitative Evaluation of Organic-Related Pores in Unconventional Reservoirs. , 2019, , 83-103.		0
93	Dynamic Gas Flow in Coals and Its Evaluation. , 2019, , 277-300.		2
94	Permeability of Fractured Shale and Two-Phase Relative Permeability in Fractures. , 2019, , 105-132.		6
95	Advances in Modelling of Heat and Mass Transfer in Porous Materials. Advances in Materials Science and Engineering, 2019, 2019, 1-2.	1.8	3
96	Estimating thermal maturity of organic-rich shale from well logs: Case studies of two shale plays. Fuel, 2019, 235, 1195-1206.	6.4	35
97	Editorial to the Special Issue: Modeling and Characterization of Low Permeability (Tight) and Nanoporous Reservoirs. Transport in Porous Media, 2019, 126, 523-525.	2.6	1
98	Multifractal analysis of pore structure of Middle Bakken formation using low temperature N ₂ adsorption and NMR measurements. Journal of Petroleum Science and Engineering, 2019, 176, 312-320.	4.2	50
99	A fractal model of effective thermal conductivity for porous media with various liquid saturation. International Journal of Heat and Mass Transfer, 2019, 128, 1149-1156.	4.8	60
100	Oil recovery by spontaneous imbibition from partially water-covered matrix blocks with different boundary conditions. Journal of Petroleum Science and Engineering, 2019, 172, 454-464.	4.2	50
101	A fractal model for the relative permeability prediction of hydrate-bearing sediments. Scientia Sinica: Physica, Mechanica Et Astronomica, 2019, 49, 034614.	0.4	2
102	Spontaneous imbibition in shale: A review of recent advances. Capillarity, 2019, 2, 17-32.	2.2	70
103	CO ₂ Capture via Nanofluids. , 2019, , 479-489.		0
104	Laboratory Investigation Into the Formation and Dissociation Process of Gas Hydrate by Low-Field NMR Technica. Journal of Geophysical Research: Solid Earth, 2018, 123, 3339-3346.	3.4	83
105	FRACTAL CHARACTERISTICS OF PORES IN TAIYUAN FORMATION SHALE FROM HEDONG COAL FIELD, CHINA. Fractals, 2018, 26, 1840006.	3.7	23
106	A NEW METHOD FOR CALCULATING FRACTAL DIMENSIONS OF POROUS MEDIA BASED ON PORE SIZE DISTRIBUTION. Fractals, 2018, 26, 1850006.	3.7	85
107	FRACTAL CHARACTERIZATION OF TIGHT OIL RESERVOIR PORE STRUCTURE USING NUCLEAR MAGNETIC RESONANCE AND MERCURY INTRUSION POROSIMETRY. Fractals, 2018, 26, 1840017.	3.7	69
108	Saturated imbibition under the influence of gravity and geometry. Journal of Colloid and Interface Science, 2018, 521, 226-231.	9.4	25

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109	COMPARISON OF PORE FRACTAL CHARACTERISTICS BETWEEN MARINE AND CONTINENTAL SHALES. <i>Fractals</i> , 2018, 26, 1840016.	3.7	32
110	The convective heat transfer of branched structure. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 813-816.	4.8	20
111	Screening improved recovery methods in tight-oil formations by injecting and producing through fractures. <i>International Journal of Heat and Mass Transfer</i> , 2018, 116, 977-993.	4.8	68
112	Progress in enhancement of CO ₂ absorption by nanofluids: A mini review of mechanisms and current status. <i>Renewable Energy</i> , 2018, 118, 527-535.	8.9	252
113	PREFACE: ENERGY ISSUES IN CARBON CAPTURE. <i>International Journal of Energy for A Clean Environment</i> , 2018, 19, v-vii.	1.1	1
114	Adsorbed and Free Oil in Lacustrine Nanoporous Shale: A Theoretical Model and a Case Study. <i>Energy & Fuels</i> , 2018, 32, 12247-12258.	5.1	41
115	Magnetotelluric Imaging of the Zhangzhou Basin Geothermal Zone, Southeastern China. <i>Energies</i> , 2018, 11, 2170.	3.1	14
116	Shale gas transport model in 3D fractal porous media with variable pore sizes. <i>Marine and Petroleum Geology</i> , 2018, 98, 437-447.	3.3	122
117	A FRACTAL MODEL FOR LOW-VELOCITY NON-DARCY FLOW IN TIGHT OIL RESERVOIRS CONSIDERING BOUNDARY-LAYER EFFECT. <i>Fractals</i> , 2018, 26, 1850077.	3.7	30
118	A mechanistic model for multi-scale sorption dynamics in shale. <i>Fuel</i> , 2018, 234, 996-1014.	6.4	36
119	Analysis of Spontaneous Imbibition in Carbon Nanotube. , 2018, , 793-798.		0
120	Modeling for mass transport of porous nanofibers using a fractal approach. , 2018, , 153-173.		0
121	A new semi-analytical method for calculating well productivity near discrete fractures. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 57, 216-223.	4.4	8
122	Modeling of capillary-driven flow in nanoporous media. , 2018, , 139-151.		0
123	A new model of pore structure typing based on fractal geometry. <i>Marine and Petroleum Geology</i> , 2018, 98, 291-305.	3.3	31
124	Fractal analysis of polymer electrolyte fuel cell performance influenced by rough contact between microporous layer and catalyst layer. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 2792-2798.	2.3	1
125	Kozeny-Carman constant of porous media: Insights from fractal-capillary imbibition theory. <i>Fuel</i> , 2018, 234, 1373-1379.	6.4	88
126	AN INTRODUCTION TO FRACTAL-BASED APPROACHES IN UNCONVENTIONAL RESERVOIRS " PART I. <i>Fractals</i> , 2018, 26, 1802001.	3.7	18

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127	Estimating permeability of shale-gas reservoirs from porosity and rock compositions. <i>Geophysics</i> , 2018, 83, MR283-MR294.	2.6	34
128	Microscale flow and separation process analysis in the nanoporous crystal layer. , 2018, , 175-206.		1
129	The dynamic effect in capillary pressure during the displacement process in ultra-low permeability sandstone reservoirs. <i>Capillarity</i> , 2018, 1, 11-18.	2.2	14
130	Recent advances in spontaneous imbibition with different boundary conditions. <i>Capillarity</i> , 2018, 1, 19-26.	2.2	20
131	Electrical conductivity modeling in fractal non-saturated porous media. , 2018, , .		0
132	Impact of coal ranks on dynamic gas flow: An experimental investigation. <i>Fuel</i> , 2017, 194, 17-26.	6.4	18
133	A Special Issue on Emerging Nanogeosciences Nanogeosciences: A Revolutionary Challenge in Geosciences. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5919-5929.	0.9	1
134	Research on Relative Permeability of Nanofibers with Capillary Pressure Effect by Means of Fractal-Monte Carlo Technique. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6811-6817.	0.9	70
135	Polymer Brushes: Promising Platforms for Adsorptive Removal of Heavy Metal Ions from Aqueous Solution. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5966-5979.	0.9	2
136	Nanogeosciences: Research History, Current Status, and Development Trends. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5930-5965.	0.9	67
137	The Characteristics and Evolution of Micro-Nano Scale Pores in Shales and Coals. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6124-6138.	0.9	33
138	Nanoporous Structure and Gas Occurrence of Organic-Rich Shales. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6942-6950.	0.9	12
139	Nano Sulfur-Coated Diatomite for Enhanced Chromate Removal by Sulfide Reduction. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6686-6691.	0.9	3
140	FRactal CHARACTERIZATION OF DYNAMIC FRACTURE NETWORK EXTENSION IN POROUS MEDIA. <i>Fractals</i> , 2017, 25, 1750023.	3.7	146
141	An algorithm Walktrap-SPM for detecting overlapping community structure. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750121.	2.0	5
142	An improved model for estimating the TOC in shale formations. <i>Marine and Petroleum Geology</i> , 2017, 83, 174-183.	3.3	74
143	Fractal and multifractal analysis of different hydraulic flow units based on micro-CT images. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 48, 145-156.	4.4	51
144	Experimental investigation of gas mass transport and diffusion coefficients in porous media with nanopores. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 566-579.	4.8	51

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145	Investigation on the pore structure and multifractal characteristics of tight oil reservoirs using NMR measurements: Permian Lucaogou Formation in Jimusaer Sag, Junggar Basin. <i>Marine and Petroleum Geology</i> , 2017, 86, 1067-1081.	3.3	212
146	Effects of microstructure on water imbibition in sandstones using X-ray computed tomography and neutron radiography. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4963-4981.	3.4	39
147	A novel analytical solution for gas diffusion in multi-scale fuel cell porous media. <i>Journal of Power Sources</i> , 2017, 362, 73-79.	7.8	54
148	Electrical conductivity models in saturated porous media: A review. <i>Earth-Science Reviews</i> , 2017, 171, 419-433.	9.1	219
149	Recent developments on fractal-based approaches to nanofluids and nanoparticle aggregation. <i>International Journal of Heat and Mass Transfer</i> , 2017, 105, 623-637.	4.8	148
150	An improved pulse sequence and inversion algorithm of $\int_0^T \frac{1}{\tau} d\tau$ spectrum. <i>Computer Physics Communications</i> , 2017, 212, 82-89.	7.5	12
151	ANALYSIS ON UNSTEADY FLOW FOR POWER-LAW FLUIDS IN DUAL FRACTAL MEDIA. <i>Journal of Porous Media</i> , 2017, 20, 1071-1086.	1.9	6
152	Full-Scale and Multi-Method Combined Characterization of Micro/Nano Pores in Organic Shale. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6634-6644.	0.9	7
153	Inversion of borehole magnetic data for prospecting deep-buried minerals in areas with near-surface magnetic distortions: a case study from the Daye iron-ore deposit in Hubei, central China. <i>Near Surface Geophysics</i> , 2017, 15, 298-310.	1.2	9
154	Stable Casein-Hydroxypropyl Cellulose Complexes at Low pH. <i>Journal of Food Quality</i> , 2016, 39, 292-300.	2.6	3
155	Fractal analysis of the effect of particle aggregation distribution on thermal conductivity of nanofluids. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2953-2956.	2.1	34
156	Investigation of Organic Related Pores in Unconventional Reservoir and Its Quantitative Evaluation. <i>Energy & Fuels</i> , 2016, 30, 4699-4709.	5.1	51
157	Heavy Metals in Wheat Grown in Sewage Irrigation: A Distribution and Prediction Model. <i>Polish Journal of Environmental Studies</i> , 2016, 25, 413-418.	1.2	21
158	An electrical conductivity model for fractal porous media. <i>Geophysical Research Letters</i> , 2015, 42, 4833-4840.	4.0	151
159	Transport Phenomena in Porous Media and Fractal Geometry. <i>Journal of Chemistry</i> , 2015, 2015, 1-2.	1.9	1
160	A synthetic study of SNMR tomography with complex data. , 2015, , .		0
161	A model for transient flow in porous media embedded with randomly distributed tree-shaped fractal networks. <i>International Journal of Modern Physics B</i> , 2015, 29, 1550135.	2.0	9
162	FRACTAL ANALYSIS OF STRESS SENSITIVITY OF PERMEABILITY IN POROUS MEDIA. <i>Fractals</i> , 2015, 23, 1550001.	3.7	23

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