Dazhen Tang

List of Publications by Year
in descending order

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92 papers	6,516 citations	66343 42 h-index	64796 79 g-index
92 all docs	92 docs citations	92 times ranked	2432 citing authors

#	Article	IF	Citations
1	Petrophysical characterization of coals by low-field nuclear magnetic resonance (NMR). Fuel, 2010, 89, 1371-1380.	6.4	689
2	Fractal characterization of adsorption-pores of coals from North China: An investigation on CH4 adsorption capacity of coals. International Journal of Coal Geology, 2008, 73, 27-42.	5.0	618
3	Fractal characterization of seepage-pores of coals from China: An investigation on permeability of coals. Computers and Geosciences, 2009, 35, 1159-1166.	4.2	291
4	Characteristics of pore structure and fractal dimension of low-rank coal: A case study of Lower Jurassic Xishanyao coal in the southern Junggar Basin, NW China. Fuel, 2017, 193, 254-264.	6.4	230
5	A comparative evaluation of coal specific surface area by CO2 and N2 adsorption and its influence on CH4 adsorption capacity at different pore sizes. Fuel, 2016, 183, 420-431.	6.4	202
6	Material composition, pore structure and adsorption capacity of low-rank coals around the first coalification jump: A case of eastern Junggar Basin, China. Fuel, 2018, 211, 804-815.	6.4	183
7	Preliminary evaluation of the coalbed methane production potential and its geological controls in the Weibei Coalfield, Southeastern Ordos Basin, China. International Journal of Coal Geology, 2009, 78, 1-15.	5.0	180
8	Coal reservoir characteristics and coalbed methane resource assessment in Huainan and Huaibei coalfields, Southern North China. International Journal of Coal Geology, 2009, 79, 97-112.	5.0	164
9	Characterization of the stress sensitivity of pores for different rank coals by nuclear magnetic resonance. Fuel, 2013, 111, 746-754.	6.4	156
10	Production characteristics and the key factors in high-rank coalbed methane fields: A case study on the Fanzhuang Block, Southern Qinshui Basin, China. International Journal of Coal Geology, 2012, 96-97, 93-108.	5.0	154
11	Determining fractal dimensions of coal pores by FHH model: Problems and effects. Journal of Natural Gas Science and Engineering, 2014, 21, 929-939.	4.4	152
12	The characteristics of coal reservoir pores and coal facies in Liulin district, Hedong coal field of China. International Journal of Coal Geology, 2010, 81, 117-127.	5.0	151
13	Dynamic variation effects of coal permeability during the coalbed methane development process in the Qinshui Basin, China. International Journal of Coal Geology, 2012, 93, 16-22.	5.0	129
14	Experimental research on coal permeability: The roles of effective stress and gas slippage. Journal of Natural Gas Science and Engineering, 2014, 21, 481-488.	4.4	124
15	Factors controlling high-yield coalbed methane vertical wells in the Fanzhuang Block, Southern Qinshui Basin. International Journal of Coal Geology, 2014, 134-135, 38-45.	5.0	118
16	Advanced characterization of physical properties of coals with different coal structures by nuclear magnetic resonance and X-ray computed tomography. Computers and Geosciences, 2012, 48, 220-227.	4.2	116
17	A precise measurement method for shale porosity with low-field nuclear magnetic resonance: A case study of the Carboniferousâ€“Permian strata in the Linxing area, eastern Ordos Basin, China. Fuel, 2015, 143, 47-54.	6.4	110
18	Coal seam porosity and fracture heterogeneity of macrolithotypes in the Hancheng Block, eastern margin, Ordos Basin, China. International Journal of Coal Geology, 2016, 159, 18-29.	5.0	108

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19	Geological controls and coalbed methane production potential evaluation: A case study in Liulin area, eastern Ordos Basin, China. Journal of Natural Gas Science and Engineering, 2014, 21, 95-111.	4.4	89
20	Geological characteristics and CBM exploration potential evaluation: A case study in the middle of the southern Junggar Basin, NW China. Journal of Natural Gas Science and Engineering, 2016, 30, 557-570.	4.4	88
21	In-situ stress measurements and stress distribution characteristics of coal reservoirs in major coalfields in China: Implication for coalbed methane (CBM) development. International Journal of Coal Geology, 2017, 182, 66-84.	5.0	88
22	Characterization of Coalbed Methane Reservoirs at Multiple Length Scales: A Cross-Section from Southeastern Ordos Basin, China. Energy & Fuels, 2014, 28, 5587-5595.	5.1	87
23	Pore Structure Characterization of Different Rank Coals Using N₂ and CO₂ Adsorption and Its Effect on CH₄ Adsorption Capacity: A Case in Panguan Syncline, Western Guizhou, China. Energy & Fuels, 2017, 31, 6034-6044.	5.1	87
24	Evaluation of coalbed methane potential of different reservoirs in western Guizhou and eastern Yunnan, China. Fuel, 2015, 139, 257-267.	6.4	86
25	Pore structure evolution of low-rank coal in China. International Journal of Coal Geology, 2019, 205, 126-139.	5.0	82
26	Pore and fracture characteristics of different rank coals in the eastern margin of the Ordos Basin, China. Journal of Natural Gas Science and Engineering, 2015, 26, 1264-1277.	4.4	80
27	Experimental study on permeability stress sensitivity of reconstituted granular coal with different lithotypes. Fuel, 2017, 202, 12-22.	6.4	78
28	High production indexes and the key factors in coalbed methane production: A case in the Hancheng block, southeastern Ordos Basin, China. Journal of Petroleum Science and Engineering, 2015, 130, 55-67.	4.2	77
29	Geochemistry of the Shitoumei oil shale in the Santanghu Basin, Northwest China: Implications for paleoclimate conditions, weathering, provenance and tectonic setting. International Journal of Coal Geology, 2017, 184, 42-56.	5.0	70
30	Geological conditions of deep coalbed methane in the eastern margin of the Ordos Basin, China: Implications for coalbed methane development. Journal of Natural Gas Science and Engineering, 2018, 53, 394-402.	4.4	69
31	In-situ stress distribution and its implication on coalbed methane development in Liulin area, eastern Ordos basin, China. Journal of Petroleum Science and Engineering, 2014, 122, 488-496.	4.2	68
32	A dynamic prediction model for gas-water effective permeability in unsaturated coalbed methane reservoirs based on production data. Journal of Natural Gas Science and Engineering, 2014, 21, 496-506.	4.4	61
33	Organic geochemistry and elements distribution in Dahuangshan oil shale, southern Junggar Basin: Origin of organic matter and depositional environment. International Journal of Coal Geology, 2013, 115, 41-51.	5.0	59
34	Fractal analysis of the dynamic variation in pore-fracture systems under the action of stress using a low-field NMR relaxation method: An experimental study of coals from western Guizhou in China. Journal of Petroleum Science and Engineering, 2019, 173, 617-629.	4.2	58
35	Implications of the in situ stress distribution for coalbed methane zonation and hydraulic fracturing in multiple seams, western Guizhou, China. Journal of Petroleum Science and Engineering, 2021, 204, 108755.	4.2	56
36	Geological and hydrological controls on water coproduced with coalbed methane in Liulin, eastern Ordos basin, China. AAPG Bulletin, 2015, 99, 207-229.	1.5	54

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37	Permeability dynamic variation under the action of stress in the medium and high rank coal reservoir. Journal of Natural Gas Science and Engineering, 2015, 26, 1030-1041.	4.4	53
38	In-situ stress, stress-dependent permeability, pore pressure and gas-bearing system in multiple coal seams in the Panguan area, western Guizhou, China. Journal of Natural Gas Science and Engineering, 2018, 49, 110-122.	4.4	52
39	Porosity and Permeability Models for Coals Using Low-Field Nuclear Magnetic Resonance. Energy & Fuels, 2012, 26, 5005-5014.	5.1	49
40	Coalbed methane adsorption behavior and its energy variation features under supercritical pressure and temperature conditions. Journal of Petroleum Science and Engineering, 2016, 146, 726-734.	4.2	48
41	Structural controls on coalbed methane accumulation and high production models in the eastern margin of Ordos Basin, China. Journal of Natural Gas Science and Engineering, 2015, 23, 524-537.	4.4	47
42	Characteristic of In Situ Stress and Its Control on the Coalbed Methane Reservoir Permeability in the Eastern Margin of the Ordos Basin, China. Rock Mechanics and Rock Engineering, 2016, 49, 3307-3322.	5.4	47
43	Preliminary evaluation of gas content of the No. 2 coal seam in the Yanchuannan area, southeast Ordos basin, China. Journal of Petroleum Science and Engineering, 2014, 122, 675-689.	4.2	41
44	Preliminary research on CBM enrichment models of low-rank coal and its geological controls: A case study in the middle of the southern Junggar Basin, NW China. Marine and Petroleum Geology, 2017, 83, 97-110.	3.3	41
45	Hydrogeological control on the accumulation and production of coalbed methane in the Anze Block, southern Qinshui Basin, China. Journal of Petroleum Science and Engineering, 2021, 198, 108138.	4.2	40
46	The pore-fracture system properties of coalbed methane reservoirs in the Panguan Syncline, Guizhou, China. Geoscience Frontiers, 2012, 3, 853-862.	8.4	39
47	The identification of coal texture in different rank coal reservoirs by using geophysical logging data in northwest Guizhou, China: Investigation by principal component analysis. Fuel, 2018, 230, 258-265.	6.4	39
48	Evaluation of coal macrolithotypes distribution by geophysical logging data in the Hancheng Block, Eastern Margin, Ordos Basin, China. International Journal of Coal Geology, 2016, 165, 265-277.	5.0	37
49	Characteristics of in-situ stress distribution and its significance on the coalbed methane (CBM) development in Fanzhuang-Zhengzhuang Block, Southern Qinshui Basin, China. Journal of Petroleum Science and Engineering, 2018, 161, 108-120.	4.2	36
50	Characterization of mineral composition and its influence on microstructure and sorption capacity of coal. Journal of Natural Gas Science and Engineering, 2015, 25, 46-57.	4.4	34
51	Geologic controls of the production of coalbed methane in the Hancheng area, southeastern Ordos Basin. Journal of Natural Gas Science and Engineering, 2015, 26, 156-162.	4.4	34
52	Geologic and hydrological controls on coal reservoir water production in marine coal-bearing strata: A case study of the Carboniferous Taiyuan Formation in the Liulin area, eastern Ordos Basin, China. Marine and Petroleum Geology, 2015, 59, 517-526.	3.3	34
53	Effects of geological pressure and temperature on permeability behaviors of middle-low volatile bituminous coals in eastern Ordos Basin, China. Journal of Petroleum Science and Engineering, 2017, 153, 372-384.	4.2	33
54	Mineralogy, major and trace element geochemistry of Shichanggou oil shales, Jimusaer, Southern Junggar Basin, China: Implications for provenance, palaeoenvironment and tectonic setting. Journal of Petroleum Science and Engineering, 2016, 146, 432-445.	4.2	32

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55	Fractal characterization of pore structure for coal macrolithotypes in the Hancheng area, southeastern Ordos Basin, China. Journal of Petroleum Science and Engineering, 2019, 178, 666-677.	4.2	32
56	Controlling factors of underpressure reservoirs in the Sulige gas field, Ordos Basin. Petroleum Exploration and Development, 2012, 39, 70-74.	7.0	29
57	Effective porosity in lignite using kerosene with low-field nuclear magnetic resonance. Fuel, 2018, 213, 158-163.	6.4	29
58	Identification of thin-layer coal texture using geophysical logging data: Investigation by Wavelet Transform and Linear Discrimination Analysis. International Journal of Coal Geology, 2021, 239, 103727.	5.0	29
59	Pore structure and fractal characterization of main coal-bearing synclines in western Guizhou, China. Journal of Natural Gas Science and Engineering, 2019, 63, 58-69.	4.4	28
60	Geological mechanisms of the accumulation of coalbed methane induced by hydrothermal fluids in the western Guizhou and eastern Yunnan regions. Journal of Natural Gas Science and Engineering, 2016, 33, 644-656.	4.4	26
61	In-situ stress distribution and its influence on the coal reservoir permeability in the Hancheng area, eastern margin of the Ordos Basin, China. Journal of Natural Gas Science and Engineering, 2019, 61, 119-132.	4.4	26
62	Factors affecting the development of the pressure differential in Upper Paleozoic gas reservoirs in the Sulige and Yulin areas of the Ordos Basin, China. International Journal of Coal Geology, 2011, 85, 103-111.	5.0	24
63	Fracture system identification of coal reservoir and the productivity differences of CBM wells with different coal structures: A case in the Yanchuannan Block, Ordos Basin. Journal of Petroleum Science and Engineering, 2018, 161, 175-189.	4.2	24
64	Controlling factors of coalbed methane well productivity of multiple superposed coalbed methane systems: A case study on the Songhe mine field, Guizhou, China. Energy Exploration and Exploitation, 2017, 35, 665-684.	2.3	22
65	Abrupt Changes in Reservoir Properties of Low-Rank Coal and Its Control Factors for Methane Adsorbability. Energy & Fuels, 2016, 30, 2084-2094.	5.1	20
66	Current status and key factors for coalbed methane development with multibranched horizontal wells in the southern Qinshui basin of China. Energy Science and Engineering, 2019, 7, 1572-1587.	4.0	20
67	An improved method to determine accurate porosity of low-rank coals by nuclear magnetic resonance. Fuel Processing Technology, 2020, 205, 106435.	7.2	19
68	Experimental study on the change of reservoir characteristics of different lithotypes of lignite after dehydration and improvement of seepage capacity. Fuel, 2020, 277, 118196.	6.4	18
69	Evaluation of pore development in different coal reservoirs based on centrifugation experiment. Journal of Petroleum Science and Engineering, 2017, 157, 1095-1105.	4.2	17
70	Quantitative characterization of void and demineralization effect in coal based on dual-resolution X-ray computed tomography. Fuel, 2020, 267, 116836.	6.4	17
71	Genetic relationships between swamp microenvironment and sulfur distribution of the Late Paleozoic coals in North China. Science in China Series D: Earth Sciences, 2001, 44, 555-565.	0.9	15
72	Composite Petroleum System and Advantageous Exploration Targets in the Kongquehe Area of Tarim Basin. Earth Science Frontiers, 2008, 15, 167-177.	0.6	13

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73	Experimental study on structural models of coal macrolithotypes and its well logging responses in the Hancheng area, Ordos Basin, China. Journal of Petroleum Science and Engineering, 2018, 166, 658-672.	4.2	13
74	Geochemical characteristics and origin of natural gas and gas -filling mode of the Paleozoic in the Yanchuannan gas field, Ordos Basin, China. Journal of Natural Gas Science and Engineering, 2018, 49, 286-297.	4.4	13
75	Properties of lignite and key factors determining the methane adsorption capacity of lignite: New insights into the effects of interlayer spacing on adsorption capacity. Fuel Processing Technology, 2019, 196, 106181.	7.2	13
76	Influence and control of coal facies on physical properties of the coal reservoirs in Western Guizhou and Eastern Yunnan, China. International Journal of Oil, Gas and Coal Technology, 2014, 8, 221.	0.2	11
77	Permeability Anisotropy in High Dip Angle Coal Seam: A Case Study of Southern Junggar Basin. Natural Resources Research, 2021, 30, 2273-2286.	4.7	11
78	Geochemical characteristics of mudstones from the lower cretaceous strata of the Jixi Basin, NE China: Implications for organic matter enrichment. International Journal of Coal Geology, 2022, 249, 103904.	5.0	10
79	Coal Reservoir Heterogeneity in Multicoal Seams of the Panguan Syncline, Western Guizhou, China: Implication for the Development of Superposed CBM-Bearing Systems. Energy & Fuels, 2018, 32, 8241-8253.	5.1	9
80	A mathematical method to identify and forecast coal texture of multiple and thin coal seams by using logging data in the Panguan syncline, western Guizhou, China. Journal of Petroleum Science and Engineering, 2020, 185, 106616.	4.2	9
81	Problems in pore property testing of lignite: Analysis and correction. International Journal of Coal Geology, 2021, 245, 103829.	5.0	9
82	Differences in accumulation patterns of low-rank coalbed methane in China under the control of the first coalification jump. Fuel, 2022, 324, 124657.	6.4	9
83	A comparative study of the characteristics of coalbed methane reservoirs in the Zhina region, Guizhou Province and the Southern Qinshui Basin, Shanxi Province, China. International Journal of Oil, Gas and Coal Technology, 2014, 7, 95.	0.2	8
84	Coalbed methane production of a heterogeneous reservoir in the Ordos Basin, China. Journal of Natural Gas Science and Engineering, 2020, 82, 103502.	4.4	8
85	In situ Stressâ€“Coal Structure Relationship and Its Influence on Hydraulic Fracturing: A Case Study in Zhengzhuang Area in Qinshui Basin, China. Natural Resources Research, 2022, 31, 1621-1646.	4.7	7
86	Occurrence of fluids in high dip angled coal measures: Geological and geochemical assessments for southern Junggar Basin, China. Journal of Natural Gas Science and Engineering, 2021, 88, 103827.	4.4	6
87	Insights into coupling between in-situ coalbed water geochemical signatures and microbial communities. International Journal of Coal Geology, 2022, 258, 104026.	5.0	6
88	Dynamic evaluation of heterogeneity in pore-fracture system of different rank coals under different confining pressure based on low-field NMR. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 1620-1634.	2.3	5
89	Coalbed methane geology and exploration potential in large, thick, low-rank seams in the Bayanhua Sag of the Erlian Basin, northern China. Energy Exploration and Exploitation, 2022, 40, 995-1022.	2.3	4
90	Comparative Analysis on Water Movability in Pores of Different Reservoir Rocks by Nuclear Magnetic Resonance. Energy Exploration and Exploitation, 2015, 33, 689-705.	2.3	3

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91	In Situ Stress Distribution and Its Control on the Coalbed Methane Reservoir Permeability in Liulin Area, Eastern Ordos Basin, China. Geofluids, 2021, 2021, 1-12.	0.7	3
92	A new relative permeability model of coal reservoir considering interface effect. Journal of Petroleum Science and Engineering, 2021, 207, 109082.	4.2	3