Caineng Zou

List of Publications by Year
in descending order

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74 papers	7,898 citations	71061 41 h-index	82499 72 g-index
74 all docs	74 docs citations	74 times ranked	3089 citing authors

#	Article	IF	Citations
1	Geological characteristics and resource potential of shale gas in China. Petroleum Exploration and Development, 2010, 37, 641-653.	3.0	899
2	Formation mechanism, geological characteristics and development strategy of nonmarine shale oil in China. Petroleum Exploration and Development, 2013, 40, 15-27.	3.0	387
3	Shale gas in China: Characteristics, challenges and prospects (I). Petroleum Exploration and Development, 2015, 42, 753-767.	3.0	384
4	Geochemistry of the extremely high thermal maturity Longmaxi shale gas, southern Sichuan Basin. Organic Geochemistry, 2014, 74, 3-12.	0.9	377
5	Tight gas sandstone reservoirs in China: characteristics and recognition criteria. Journal of Petroleum Science and Engineering, 2012, 88-89, 82-91.	2.1	365
6	Shale gas in China: Characteristics, challenges and prospects (II). Petroleum Exploration and Development, 2016, 43, 182-196.	3.0	349
7	Organic-matter-rich shales of China. Earth-Science Reviews, 2019, 189, 51-78.	4.0	340
8	Formation, distribution, resource potential, and discovery of Sinianâ€“Cambrian giant gas field, Sichuan Basin, SW China. Petroleum Exploration and Development, 2014, 41, 306-325.	3.0	310
9	The role of new energy in carbon neutral. Petroleum Exploration and Development, 2021, 48, 480-491.	3.0	307
10	Concepts, characteristics, potential and technology of unconventional hydrocarbons: On unconventional petroleum geology. Petroleum Exploration and Development, 2013, 40, 413-428.	3.0	267
11	Applications of Micro-Fourier Transform Infrared Spectroscopy (FTIR) in the Geological Sciencesâ€”A Review. International Journal of Molecular Sciences, 2015, 16, 30223-30250.	1.8	258
12	Formation, distribution, potential and prediction of global conventional and unconventional hydrocarbon resources. Petroleum Exploration and Development, 2015, 42, 14-28.	3.0	224
13	Theory, technology and prospects of conventional and unconventional natural gas. Petroleum Exploration and Development, 2018, 45, 604-618.	3.0	197
14	Development characteristics and orientation of tight oil and gas in China. Petroleum Exploration and Development, 2019, 46, 1073-1087.	3.0	164
15	Nano-hydrocarbon and the accumulation in coexisting source and reservoir. Petroleum Exploration and Development, 2012, 39, 15-32.	3.0	159
16	Conventional and unconventional petroleum â€œorderly accumulationâ€• Concept and practical significance. Petroleum Exploration and Development, 2014, 41, 14-30.	3.0	154
17	Geochemical characteristics of marine and terrestrial shale gas in China. Marine and Petroleum Geology, 2016, 76, 444-463.	1.5	154
18	Deep-lacustrine transformation of sandy debrites into turbidites, Upper Triassic, Central China. Sedimentary Geology, 2012, 265-266, 143-155.	1.0	150

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19	Formation, distribution and potential of deep hydrocarbon resources in China. Petroleum Exploration and Development, 2013, 40, 687-695.	3.0	148
20	Ocean euxinia and climate change â€œdouble whammyâ€•drove the Late Ordovician mass extinction. Geology, 2018, 46, 535-538.	2.0	148
21	Shale gas generation and potential of the Lower Cambrian Qiongzhusi Formation in the Southern Sichuan Basin, China. Petroleum Exploration and Development, 2012, 39, 75-81.	3.0	142
22	The characteristics and significance of conventional and unconventional Sinianâ€“Silurian gas systems in the Sichuan Basin, central China. Marine and Petroleum Geology, 2015, 64, 386-402.	1.5	142
23	Breakthrough and prospect of shale gas exploration and development in China. Natural Gas Industry B, 2016, 3, 12-26.	1.4	115
24	Stable carbon isotopes of alkane gases from the Xujiahe coal measures and implication for gas-source correlation in the Sichuan Basin, SW China. Organic Geochemistry, 2009, 40, 638-646.	0.9	99
25	Geochemistry of the Sinianâ€“Cambrian gas system in the Sichuan Basin, China. Organic Geochemistry, 2014, 74, 13-21.	0.9	98
26	Lithofacies and organic geochemistry of the Middle Permian Lucaogou Formation in the Jimusar Sag of the Junggar Basin, NW China. Journal of Petroleum Science and Engineering, 2016, 140, 97-107.	2.1	83
27	Resource types, formation, distribution and prospects of coal-measure gas. Petroleum Exploration and Development, 2019, 46, 451-462.	3.0	81
28	Controlling factors on the formation and distribution of â€œsweet-spot areasâ€•of marine gas shales in South China and a preliminary discussion on unconventional petroleum sedimentology. Journal of Asian Earth Sciences, 2020, 194, 103989.	1.0	80
29	Geological characteristics, main challenges and future prospect of shale gas. Journal of Natural Gas Geoscience, 2017, 2, 273-288.	0.6	78
30	Connotation, innovation and vision of â€œcarbon neutralityâ€• Natural Gas Industry B, 2021, 8, 523-537.	1.4	67
31	The water footprint of hydraulic fracturing in Sichuan Basin, China. Science of the Total Environment, 2018, 630, 349-356.	3.9	61
32	â€œExploring petroleum inside source kitchenâ€• Shale oil and gas in Sichuan Basin. Science China Earth Sciences, 2020, 63, 934-953.	2.3	57
33	Water Availability for Shale Gas Development in Sichuan Basin, China. Environmental Science & Technology, 2016, 50, 2837-2845.	4.6	56
34	Concept, technology and practice of â€œman-made reservoirsâ€•development. Petroleum Exploration and Development, 2017, 44, 146-158.	3.0	54
35	Geology of giant gas fields in China. Marine and Petroleum Geology, 2008, 25, 320-334.	1.5	53
36	Underground coal gasification and its strategic significance to the development of natural gas industry in China. Petroleum Exploration and Development, 2019, 46, 205-215.	3.0	49

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37	Shale gas enrichment pattern and exploration significance of Well WuXi-2 in northeast Chongqing, NE Sichuan Basin. Petroleum Exploration and Development, 2016, 43, 386-394.	3.0	48
38	Origin of Flowback and Produced Waters from Sichuan Basin, China. Environmental Science & Technology, 2018, 52, 14519-14527.	4.6	46
39	Earth energy evolution, human development and carbon neutral strategy. Petroleum Exploration and Development, 2022, 49, 468-488.	3.0	46
40	Suggestions on the development strategy of shale gas in China. Journal of Natural Gas Geoscience, 2016, 1, 413-423.	0.6	44
41	Methods for shale gas play assessment: A comparison between Silurian Longmaxi shale and Mississippian Barnett shale. Journal of Earth Science (Wuhan, China), 2015, 26, 285-294.	1.1	43
42	Euxinia caused the Late Ordovician extinction: Evidence from pyrite morphology and pyritic sulfur isotopic composition in the Yangtze area, South China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 511, 1-11.	1.0	39
43	Geologic significance and optimization technique of sweet spots in unconventional shale systems. Journal of Asian Earth Sciences, 2019, 178, 3-19.	1.0	37
44	Geological exploration theory for large oil and gas provinces and its significance. Petroleum Exploration and Development, 2011, 38, 513-522.	3.0	36
45	Do Shale Pore Throats Have a Threshold Diameter for Oil Storage?. Scientific Reports, 2015, 5, 13619.	1.6	36
46	Geological and Geochemical Characteristics and Exploration Prospect of Coalâ€Derived Tight Sandstone Gas in China: Case Study of the Ordos, Sichuan, and Tarim Basins. Acta Geologica Sinica, 2018, 92, 1609-1626.	0.8	32
47	Characteristics and Origin of Tight Oil Accumulations in the Upper Triassic Yanchang Formation of the Ordos Basin, Northâ€Central China. Acta Geologica Sinica, 2016, 90, 1821-1837.	0.8	31
48	Hydrocarbon accumulation mechanism and structure of large-scale volcanic weathering crust of the Carboniferous in northern Xinjiang, China. Science China Earth Sciences, 2012, 55, 221-235.	2.3	29
49	Development of petroleum geology in China: Discussion on continuous petroleum accumulation. Journal of Earth Science (Wuhan, China), 2013, 24, 796-803.	1.1	28
50	Characteristics and distribution of continental tight oil in China. Journal of Asian Earth Sciences, 2019, 178, 37-51.	1.0	28
51	Hydrochemistry of flowback water from Changning shale gas field and associated shallow groundwater in Southern Sichuan Basin, China: Implications for the possible impact of shale gas development on groundwater quality. Science of the Total Environment, 2020, 713, 136591.	3.9	28
52	Geologic characteristics, controlling factors and hydrocarbon accumulation mechanisms of Chinaâ€™s Large Gas Provinces of low porosity and permeability. Science in China Series D: Earth Sciences, 2009, 52, 1068-1090.	0.9	25
53	Discussion on the characteristics and controlling factors of differential enrichment of shale gas in the Wufeng-Longmaxi formations in south China. Journal of Natural Gas Geoscience, 2020, 5, 117-128.	0.6	25
54	Evaluation criteria, major types, characteristics and resource prospects of tight oil in China. Petroleum Research, 2016, 1, 1-9.	1.6	20

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55	Influence of Pore Water on the Gas Storage of Organic-Rich Shale. Energy & Fuels, 2020, 34, 5293-5306.	2.5	19
56	Prospect of Ultra-Deep Petroleum Onshore China. Energy Exploration and Exploitation, 2014, 32, 19-40.	1.1	18
57	Major biological events and fossil energy formation: On the development of energy science under the earth system framework. Petroleum Exploration and Development, 2021, 48, 581-594.	3.0	17
58	A nutrient control on expanded anoxia and global cooling during the Late Ordovician mass extinction. Communications Earth & Environment, 2022, 3, .	2.6	17
59	An integrated assessment system for shale gas resources associated with graptolites and its application. Applied Energy, 2020, 262, 114524.	5.1	15
60	Shale Gas. , 2013, , 149-190.		14
61	Environmental changes in the Middle Triassic lacustrine basin (Ordos, North China): Implication for biotic recovery of freshwater ecosystem following the Permian-Triassic mass extinction. Global and Planetary Change, 2021, 204, 103559.	1.6	13
62	éžå„è§„æºê²©å±‚ç³»æ²¹æº”å½¢æˆê†å¸ƒä¸Žå‰¯æ™¯å±•æœ›. Diqiu Kexue - Zhongguo Dizhi Daxue Xuebao/Earth Science - Journal of China University of Geosciences, 2022, 47, 1517.	0.1	13
63	Structure of weathered clastic crust and its petroleum potential. Science China Earth Sciences, 2014, 57, 3015-3026.	2.3	12
64	Reservoir-forming age and its exploration significance to stratigraphic reservoirs in southern Songliao Basin. Science Bulletin, 2007, 52, 3239-3252.	1.7	10
65	Organic Carbon and Stable C-O Isotopic Study of the Lower Silurian Longmaxi Formation Black Shales in Sichuan Basin, SW China: Paleoenvironmental and Shale Gas Implications. Energy Exploration and Exploitation, 2015, 33, 439-457.	1.1	10
66	Discussion on the contribution of graptolite to organic enrichment and gasÂshale reservoir: A case study of the Wufengâ€“Longmaxi shales in SouthÂChina. Journal of Natural Gas Geoscience, 2018, 3, 147-156.	0.6	10
67	Quantitative assessment of the sweet spot in marine shale oil and gas based on geology, engineering, and economics: A case study from the Eagle Ford Shale, USA. Energy Strategy Reviews, 2021, 38, 100713.	3.3	10
68	Geological characteristics of large gas provinces and large gas fields in China. Science in China Series D: Earth Sciences, 2008, 51, 14-35.	0.9	9
69	Geochemical and Reservoir Characteristics of the Upper Triassic Continental Shale in the Sichuan Basin, China. Energy Exploration and Exploitation, 2015, 33, 375-395.	1.1	9
70	Geological Conditions and Prospect Forecast of Shale Gas Formation in Qiangtang Basin, Qinghaiâ€Tibet Plateau. Acta Geologica Sinica, 2014, 88, 598-619.	0.8	8
71	A static resistance model and the discontinuous pattern of hydrocarbon accumulation in tight oil reservoirs. Petroleum Science, 2014, 11, 469-480.	2.4	7
72	Amorphous silica and its effects on shale reservoir: A case study about Yanchang formation lacustrine shale, Ordos Basin. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 975-989.	1.2	5

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73	Major factors controlling the formation of middle and large marine carbonate stratigraphic fields. Science Bulletin, 2007, 52, 44-53.	1.7	4
74	Unconventional Continuous Petroleum Accumulation. , 2013, , 27-60.		1