Hui Tian

List of Publications by Year
in descending order

62 papers	2,836 citations	201674 27 h-index	175258 52 g-index
63 all docs	63 docs citations	63 times ranked	1490 citing authors

#	Article	IF	Citations
1	A preliminary study on the pore characterization of Lower Silurian black shales in the Chuandong Thrust Fold Belt, southwestern China using low pressure N2 adsorption and FE-SEM methods. Marine and Petroleum Geology, 2013, 48, 8-19.	3.3	475
2	Characterization of methane adsorption on overmature Lower Silurianâ€“Upper Ordovician shales in Sichuan Basin, southwest China: Experimental results and geological implications. International Journal of Coal Geology, 2016, 156, 36-49.	5.0	218
3	Pore characterization of organic-rich Lower Cambrian shales in Qiannan Depression of Guizhou Province, Southwestern China. Marine and Petroleum Geology, 2015, 62, 28-43.	3.3	186
4	Sample maturation calculated using Raman spectroscopic parameters for solid organics: Methodology and geological applications. Science Bulletin, 2013, 58, 1285-1298.	1.7	132
5	The relationship between micro-Raman spectral parameters and reflectance of solid bitumen. International Journal of Coal Geology, 2014, 121, 19-25.	5.0	110
6	A preliminary study on the characterization and controlling factors of porosity and pore structure of the Permian shales in Lower Yangtze region, Eastern China. International Journal of Coal Geology, 2015, 146, 68-78.	5.0	106
7	Geological models of gas in place of the Longmaxi shale in Southeast Chongqing, South China. Marine and Petroleum Geology, 2016, 73, 433-444.	3.3	106
8	New insights into the volume and pressure changes during the thermal cracking of oil to gas in reservoirs: Implications for the in-situ accumulation of gas cracked from oils. AAPG Bulletin, 2008, 92, 181-200.	1.5	102
9	An experimental comparison of gas generation from three oil fractions: Implications for the chemical and stable carbon isotopic signatures of oil cracking gas. Organic Geochemistry, 2012, 46, 96-112.	1.8	72
10	Geochemistry, origin and accumulation of natural gases in the deepwater area of the Qiongdongnan Basin, South China Sea. Marine and Petroleum Geology, 2016, 72, 254-267.	3.3	71
11	Geochemical characterization and methane adsorption capacity of overmature organic-rich Lower Cambrian shales in northeast Guizhou region, southwest China. Marine and Petroleum Geology, 2017, 86, 858-873.	3.3	71
12	Modeling free gas content of the Lower Paleozoic shales in the Weiyuan area of the Sichuan Basin, China. Marine and Petroleum Geology, 2014, 56, 87-96.	3.3	70
13	Distinguishing gases derived from oil cracking and kerogen maturation: Insights from laboratory pyrolysis experiments. Organic Geochemistry, 2009, 40, 1074-1084.	1.8	66
14	Geochemical characteristics, palaeoenvironment and formation model of Eocene organic-rich shales in the Beibuwan Basin, South China Sea. Marine and Petroleum Geology, 2013, 48, 77-89.	3.3	56
15	Main controlling factors and enrichment area evaluation of shale gas of the Lower Paleozoic marine strata in south China. Petroleum Science, 2015, 12, 573-586.	4.9	55
16	Oil cracking to gases: Kinetic modeling and geological significance. Science Bulletin, 2006, 51, 2763-2770.	1.7	53
17	Water Distribution in Overmature Organic-Rich Shales: Implications from Water Adsorption Experiments. Energy & Fuels, 2017, 31, 13120-13132.	5.1	51
18	Genetic origins of marine gases in the Tazhong area of the Tarim basin, NW China: Implications from the pyrolysis of marine kerogens and crude oil. International Journal of Coal Geology, 2010, 82, 17-26.	5.0	47

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19	Determination of the source area of the Ya13-1 gas pool in the Qiongdongnan Basin, South China Sea. Organic Geochemistry, 2006, 37, 990-1002.	1.8	42
20	Gas sources of the YN2 gas pool in the Tarim Basinâ€"Evidence from gas generation and methane carbon isotope fractionation kinetics of source rocks and crude oils. Marine and Petroleum Geology, 2007, 24, 29-41.	3.3	41
21	Condensate origin and hydrocarbon accumulation mechanism of the deepwater giant gas field in western South China Sea: A case study of Lingshui 17-2 gas field in Qiongdongnan Basin. Petroleum Exploration and Development, 2017, 44, 409-417.	7.0	40
22	Source controls on geochemical characteristics of crude oils from the Qionghai Uplift in the western Pearl River Mouth Basin, offshore South China Sea. Marine and Petroleum Geology, 2013, 40, 85-98.	3.3	39
23	Gas generation of shale organic matter with different contents of residual oil based on a pyrolysis experiment. Organic Geochemistry, 2015, 78, 69-78.	1.8	37
24	Late gas generation potential for different types of shale source rocks: Implications from pyrolysis experiments. International Journal of Coal Geology, 2018, 193, 16-29.	5.0	36
25	Water Content and Equilibrium Saturation and Their Influencing Factors of the Lower Paleozoic Overmature Organic-Rich Shales in the Upper Yangtze Region of Southern China. Energy & Fuels, 2018, 32, 11452-11466.	5.1	35
26	Rheniumâ€"osmium and molybdenum isotope systematics of black shales from the Lower Cambrian Niutitang Formation, SW China: Evidence of a well oxygenated ocean at ca. 520â€‾Ma. Chemical Geology, 2018, 499, 26-42.	3.3	31
27	Application of low pressure gas adsorption to the characterization of pore size distribution of shales: An example from Southeastern Chongqing area, China. Journal of Natural Gas Geoscience, 2016, 1, 221-230.	1.2	30
28	Pyrolysis of oil at high temperatures: Gas potentials, chemical and carbon isotopic signatures. Science Bulletin, 2009, 54, 1217-1224.	9.0	26
29	Paleo-environmental variation and its control on organic matter enrichment of black shales from shallow shelf to slope regions on the Upper Yangtze Platform during Cambrian Stage 3. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 545, 109653.	2.3	26
30	Gas in place and its controlling factors of the shallow Longmaxi shale in the Xishui area, Guizhou, China. Journal of Natural Gas Science and Engineering, 2020, 77, 103272.	4.4	26
31	Formation and evolution of nanopores in shales and its impact on retained oil during oil generation and expulsion based on pyrolysis experiments. Journal of Petroleum Science and Engineering, 2019, 176, 509-520.	4.2	23
32	Origin of natural sulphur-bearing immiscible inclusions and H2S in oolite gas reservoir, Eastern Sichuan. Science in China Series D: Earth Sciences, 2006, 49, 242-257.	0.9	22
33	Formation and evolution of Silurian paleo-oil pools in the Tarim Basin, NW China. Organic Geochemistry, 2008, 39, 1281-1293.	1.8	21
34	Tracing of deeply-buried source rock: A case study of the WC9-2 petroleum pool in the Pearl River Mouth Basin, South China Sea. Marine and Petroleum Geology, 2009, 26, 1365-1378.	3.3	21
35	Origin and accumulation model of the AK-1 natural gas pool from the Tarim Basin, China. Organic Geochemistry, 2005, 36, 1285-1298.	1.8	20
36	High density methane inclusions in Puguang Gasfield: Discovery and a T-P genetic study. Science Bulletin, 2009, 54, 4714-4723.	9.0	19

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37	Origin and accumulation of CO2 and its natural displacement of oils in the continental basins, northern South China Sea. AAPG Bulletin, 2015, 99, 1349-1369.	1.5	19
38	Influence of retained bitumen in oil-prone shales on the chemical and carbon isotopic compositions of natural gases: Implications from pyrolysis experiments. Marine and Petroleum Geology, 2019, 101, 148-161.	3.3	18
39	Generation and accumulation of oil and condensates in the Wenchang A Sag, western Pearl River Mouth Basin, South China Sea. Geofluids, 2009, 9, 275-286.	0.7	17
40	Methane adsorption characteristics of overmature Lower Cambrian shales of deepwater shelf facies in Southwest China. Marine and Petroleum Geology, 2020, 120, 104565.	3.3	17
41	Occurrence of Irreducible Water and Its Influences on Gas-Bearing Property of Gas Shales From Shallow Longmaxi Formation in the Xishui Area, Guizhou, Southern China. Frontiers in Earth Science, 2021, 9, .	1.8	17
42	Characterization of Eocene lacustrine source rocks and their oils in the Beibuwan Basin, offshore South China Sea. AAPG Bulletin, 2017, 101, 1395-1423.	1.5	16
43	Differences in the distribution and occurrence phases of pore water in various nanopores of marine-terrestrial transitional shales in the Yangquan area of the northeast Qinshui Basin, China. Marine and Petroleum Geology, 2022, 137, 105510.	3.3	15
44	Thermal maturation as revealed by micro-Raman spectroscopy of mineral-organic aggregation (MOA) in marine shales with high and over maturities. Science China Earth Sciences, 2020, 63, 1540-1552.	5.2	14
45	The relationship between oil generation, expulsion and retention of lacustrine shales: Based on pyrolysis simulation experiments. Journal of Petroleum Science and Engineering, 2021, 196, 107625.	4.2	14
46	Characteristics of molecular nitrogen generation from overmature black shales in South China: Preliminary implications from pyrolysis experiments. Marine and Petroleum Geology, 2020, 120, 104527.	3.3	12
47	Methane-dominated gaseous inclusions in the Sinian carbonate reservoirs in central Sichuan Basin and their implications for natural gas accumulation. Marine and Petroleum Geology, 2021, 125, 104871.	3.3	11
48	A complete series of C31â€"C34 25-norbenzohopanes in the Devonian and Jurassic bitumen sands, NW Sichuan Basin. Organic Geochemistry, 2012, 45, 1-6.	1.8	10
49	Reconstruction of oceanic redox structures during the Ediacaran-Cambrian transition in the Yangtze Block of South China: Implications from Mo isotopes and trace elements. Precambrian Research, 2021, 359, 106181.	2.7	10
50	Fluorescence lifetimes of crude oils and oil inclusions: A preliminary study in the Western Pearl River Mouth Basin, South China Sea. Organic Geochemistry, 2019, 134, 16-31.	1.8	8
51	Pore Water and Its Influences on the Nanopore Structures of Deep Longmaxi Shales in the Luzhou Block of the Southern Sichuan Basin, China. Energies, 2022, 15, 4053.	3.1	8
52	Abnormal elevations of C34 2Î±-methylhopane and C34 2Î±-methylbenzohopane in a Lower Triassic mudstone sample, NW Sichuan Basin. Organic Geochemistry, 2013, 63, 139-144.	1.8	7
53	Efficient Determination of Specific Surface Area of Shale Samples Using a Tracer-Based Headspace Gas Chromatographic Technique. Analytical Chemistry, 2017, 89, 974-979.	6.5	6
54	Origin and Formation of Pyrobitumen in Sinianâ€"Cambrian Reservoirs of the Anyue Gas Field in the Sichuan Basin: Implications from Pyrolysis Experiments of Different Oil Fractions. Energy & Fuels, 2021, 35, 1165-1177.	5.1	6

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55	Influence of water on yields and isotopic fractionations of gas hydrocarbons generated from oil cracking. Geochemical Journal, 2009, 43, 247-255.	1.0	5
56	A comparative experimental study on gas generation from saturated and aromatic hydrocarbons isolated from a Cambrian oil in Tarim basin. Geochemical Journal, 2010, 44, 151-158.	1.0	5
57	Study of genetic evolution of oil inclusion and density of surface oil by measurement of fluorescence lifetime of crude oil and oil inclusion. Science China Earth Sciences, 2017, 60, 95-101.	5.2	5
58	Fluorescence lifetime evolution of crude oils during thermal cracking: Implications from pyrolysis experiments in a closed system. Organic Geochemistry, 2021, 159, 104273.	1.8	4
59	Enhanced terrestrial organic matter burial in the marine shales of Yangtze platform during the early Carboniferous interglacial interval. Marine and Petroleum Geology, 2021, 129, 105064.	3.3	3
60	The modeling of carbon isotope kinetics and its application to the evaluation of natural gas. Frontiers of Earth Science, 2008, 2, 96-104.	0.5	2
61	The generation kinetics of natural gases in the Kela-2 gas field from the Kuqa Depression, Tarim Basin, northwestern China. Diqiu Huaxue, 2013, 32, 157-169.	0.5	2
62	Numerical Simulation Based on the Canister Test for Shale Gas Content Calculation. Energies, 2021, 14, 6518.	3.1	2