Guang-You Zhu

List of Publications by Year
in descending order

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114 papers	3,382 citations	126907 33 h-index	175258 52 g-index
115 all docs	115 docs citations	115 times ranked	1091 citing authors

#	Article	IF	Citations
1	Petroleum geology of the Puguang sour gas field in the Sichuan Basin, SW China. Marine and Petroleum Geology, 2008, 25, 357-370.	3.3	187
2	The effects of calcite and montmorillonite on oil cracking in confined pyrolysis experiments. Organic Geochemistry, 2010, 41, 611-626.	1.8	127
3	Giant gas discovery in the Precambrian deeply buried reservoirs in the Sichuan Basin, China: Implications for gas exploration in old cratonic basins. Precambrian Research, 2015, 262, 45-66.	2.7	123
4	Geochemistry of Palaeozoic marine petroleum from the Tarim Basin, NW China: Part 3. Thermal cracking of liquid hydrocarbons and gas washing as the major mechanisms for deep gas condensate accumulations. Organic Geochemistry, 2011, 42, 1394-1410.	1.8	114
5	Isotopic evidence of TSR origin for natural gas bearing high H2S contents within the Feixianguan Formation of the northeastern Sichuan Basin, southwestern China. Science in China Series D: Earth Sciences, 2005, 48, 1960.	0.9	103
6	Geochemistry and origin of sour gas accumulations in the northeastern Sichuan Basin, SW China. Organic Geochemistry, 2005, 36, 1703-1716.	1.8	95
7	The occurrence of ultra-deep heavy oils in the Tabei Uplift of the Tarim Basin, NW China. Organic Geochemistry, 2012, 52, 88-102.	1.8	92
8	Alteration and multi-stage accumulation of oil and gas in the Ordovician of the Tabei Uplift, Tarim Basin, NW China: Implications for genetic origin of the diverse hydrocarbons. Marine and Petroleum Geology, 2013, 46, 234-250.	3.3	89
9	Gas genetic type and origin of hydrogen sulfide in the Zhongba gas field of the western Sichuan Basin, China. Applied Geochemistry, 2011, 26, 1261-1273.	3.0	81
10	Geochemistry of Paleozoic marine oils from the Tarim Basin, NW China. Part 4: Paleobiodegradation and oil charge mixing. Organic Geochemistry, 2014, 67, 41-57.	1.8	81
11	The complexity, secondary geochemical process, genetic mechanism and distribution prediction of deep marine oil and gas in the Tarim Basin, China. Earth-Science Reviews, 2019, 198, 102930.	9.1	72
12	Discovery of the lower Cambrian high-quality source rocks and deep oil and gas exploration potential in the Tarim Basin, China. AAPG Bulletin, 2018, 102, 2123-2151.	1.5	69
13	Geochemical evidence for coal-derived hydrocarbons and their charge history in the Dabei Gas Field, Kuqa Thrust Belt, Tarim Basin, NW China. Marine and Petroleum Geology, 2011, 28, 1364-1375.	3.3	68
14	The effects of pyrobitumen on oil cracking in confined pyrolysis experiments. Organic Geochemistry, 2012, 45, 29-47.	1.8	59
15	Non-cracked oil in ultra-deep high-temperature reservoirs in the Tarim basin, China. Marine and Petroleum Geology, 2018, 89, 252-262.	3.3	58
16	Geochemical Significance of Discovery in Cambrian Reservoirs at Well ZS1 of the Tarim Basin, Northwest China. Energy & Fuels, 2015, 29, 1332-1344.	5.1	50
17	Sedimentary association of alternated mudstones and tight sandstones in Chinaâ€™s oil and gas bearing basins and its natural gas accumulation. Journal of Asian Earth Sciences, 2012, 50, 88-104.	2.3	47
18	The characteristics of Precambrian sedimentary basin and the distribution of deep source rock: A case study of Tarim Basin in Neoproterozoic and source rocks in Early Cambrian, Western China. Petroleum Exploration and Development, 2016, 43, 988-999.	7.0	47

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19	Discrimination of abiogenic and biogenic alkane gases. Science in China Series D: Earth Sciences, 2008, 51, 1737-1749.	0.9	45
20	Origin of the Neogene shallow gas accumulations in the Jiyang Superdepression, Bohai Bay Basin. Organic Geochemistry, 2005, 36, 1650-1663.	1.8	44
21	Natural gas origins of large and medium-scale gas fields in China sedimentary basins. Science in China Series D: Earth Sciences, 2008, 51, 1-13.	0.9	44
22	Deepest oil in Asia: Characteristics of petroleum system in the Tarim basin, China. Journal of Petroleum Science and Engineering, 2021, 199, 108246.	4.2	44
23	Origin of deep strata gas of Tazhong in Tarim Basin, China. Organic Geochemistry, 2014, 74, 85-97.	1.8	43
24	Relationship between the later strong gas-charging and the improvement of the reservoir capacity in deep Ordovician carbonate reservoir in Tazhong area, Tarim Basin. Science Bulletin, 2009, 54, 3076-3089.	1.7	41
25	Separation and Characterization of Sulfur Compounds in Ultra-deep Formation Crude Oils from Tarim Basin. Energy & Fuels, 2015, 29, 4842-4849.	5.1	41
26	A well-preserved 250 million-year-old oil accumulation in the Tarim Basin, western China: Implications for hydrocarbon exploration in old and deep basins. Marine and Petroleum Geology, 2013, 43, 478-488.	3.3	40
27	Secondary alteration to ancient oil reservoirs by late gas filling in the Tazhong area, Tarim Basin. Journal of Petroleum Science and Engineering, 2014, 122, 240-256.	4.2	40
28	Neoproterozoic rift basins and their control on the development of hydrocarbon source rocks in the Tarim Basin, NW China. Journal of Asian Earth Sciences, 2017, 150, 63-72.	2.3	40
29	Formation and preservation of a giant petroleum accumulation in superdeep carbonate reservoirs in the southern Halahatang oil field area, Tarim Basin, China. AAPG Bulletin, 2019, 103, 1703-1743.	1.5	40
30	TSR-altered oil with high-abundance thiaadamantanes of a deep-buried Cambrian gas condensate reservoir in Tarim Basin. Marine and Petroleum Geology, 2016, 69, 1-12.	3.3	39
31	Geochemistry, origin and accumulation of continental condensate inÂthe ultra-deep-buried Cretaceous sandstone reservoir, Kuqa Depression, Tarim Basin, China. Marine and Petroleum Geology, 2015, 65, 103-113.	3.3	35
32	TSR, deep oil cracking and exploration potential in the Hetianhe gas field, Tarim Basin, China. Fuel, 2019, 236, 1078-1092.	6.4	35
33	Petroleum systems of Chinese nonmarine basins. Basin Research, 2010, 22, 4-16.	2.7	34
34	Formation mechanisms of secondary hydrocarbon pools in the Triassic reservoirs in the northern Tarim Basin. Marine and Petroleum Geology, 2013, 46, 51-66.	3.3	34
35	Hydrocarbon accumulation mechanisms and industrial exploration depth of large-area fractureâ€“cavity carbonates in the Tarim Basin, western China. Journal of Petroleum Science and Engineering, 2015, 133, 889-907.	4.2	33
36	Discovery and basic characteristics of high-quality source rocks found in the Yuertusi Formation of the Cambrian in Tarim Basin, China. Journal of Natural Gas Geoscience, 2016, 1, 21-33.	1.2	33

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37	Detection of 2-thiaadamantanes in the oil from Well TZ-83 in Tarim Basin and its geological implication. Science Bulletin, 2008, 53, 396-401.	1.7	32
38	Secondary accumulation of hydrocarbons in Carboniferous reservoirs in the northern Tarim Basin, China. Journal of Petroleum Science and Engineering, 2013, 102, 10-26.	4.2	32
39	The origin and accumulation of multi-phase reservoirs in the east Tabei uplift, Tarim Basin, China. Marine and Petroleum Geology, 2018, 98, 533-553.	3.3	32
40	Two-dimensional gas chromatograms as fingerprints of sour gas-associated oils. Organic Geochemistry, 2008, 39, 1144-1149.	1.8	31
41	Induced H2S formation during steam injection recovery process of heavy oil from the Liaohe Basin, NE China. Journal of Petroleum Science and Engineering, 2010, 71, 30-36.	4.2	31
42	Origin of diamondoid and sulphur compounds in the Tazhong Ordovician condensate, Tarim Basin, China: Implications for hydrocarbon exploration in deep-buried strata. Marine and Petroleum Geology, 2015, 62, 14-27.	3.3	31
43	The genesis of H2S in the Weiyuan Gas Field, Sichuan Basin and its evidence. Science Bulletin, 2007, 52, 1394-1404.	1.7	30
44	The controlling factors and distribution prediction of H2S formation in marine carbonate gas reservoir, China. Science Bulletin, 2007, 52, 150-163.	1.7	30
45	Use of comprehensive two-dimensional gas chromatography for the characterization of ultra-deep condensate from the Bohai Bay Basin, China. Organic Geochemistry, 2013, 63, 8-17.	1.8	28
46	Late Neoproterozoic intracontinental rifting of the Tarim carton, NW China: An integrated geochemical, geochronological and Srâ€“Ndâ€“Hf isotopic study of siliciclastic rocks and basalts from deep drilling cores. Gondwana Research, 2020, 80, 142-156.	6.0	28
47	Excellent source rocks discovered in the Cryogenian interglacial deposits in South China: Geology, geochemistry, and hydrocarbon potential. Precambrian Research, 2019, 333, 105455.	2.7	27
48	Stability and cracking threshold depth of crude oil in 8000Âm ultra-deep reservoir in the Tarim Basin. Fuel, 2020, 282, 118777.	6.4	27
49	Discussion of gas enrichment mechanism and natural gas origin in marine sedimentary basin, China. Science Bulletin, 2007, 52, 62-76.	1.7	26
50	Diamondoids as tracers of late gas charge in oil reservoirs: Example from the Tazhong area, Tarim Basin, China. Fuel, 2019, 253, 998-1017.	6.4	26
51	Fundamental geological elements for the occurrence of Chinese marine oil and gas accumulations. Science Bulletin, 2007, 52, 28-43.	1.7	25
52	Origin and formation of deep and superdeep strata gas from Gucheng-Shunnan block of the Tarim Basin, NW China. Journal of Petroleum Science and Engineering, 2019, 177, 361-373.	4.2	25
53	Characteristics and Accumulation Mechanism of Quasi-Layered Ordovician Carbonate Reservoirs in the Tazhong Area, Tarim Basin. Energy Exploration and Exploitation, 2013, 31, 545-567.	2.3	24
54	Variations of diamondoids distributions in petroleum fluids during migration induced phase fractionation: A case study from the Tazhong area, NW China. Journal of Petroleum Science and Engineering, 2019, 179, 1012-1022.	4.2	24

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55	Discovery of Cryogenian interglacial source rocks in the northern Tarim, NW China: Implications for Neoproterozoic paleoclimatic reconstructions and hydrocarbon exploration. Gondwana Research, 2020, 80, 370-384.	6.0	23
56	Preservation of Ultradeep Liquid Oil and Its Exploration Limit. Energy & Fuels, 2018, 32, 11165-11176.	5.1	21
57	High abundance of alkylated diamondoids, thiadiamondoids and thioaromatics in recently discovered sulfur-rich LS2 condensate in the Tarim Basin. Organic Geochemistry, 2018, 123, 136-143.	1.8	21
58	Distribution and geodynamic setting of the Late Neoproterozoicâ€“ Early Cambrian hydrocarbon source rocks in the South China and Tarim Blocks. Journal of Asian Earth Sciences, 2020, 201, 104504.	2.3	21
59	TSR promotes the formation of oil-cracking gases: Evidence from simulation experiments. Science in China Series D: Earth Sciences, 2008, 51, 451-455.	0.9	20
60	The Formation Mechanism of High Dibenzothiophene Series Concentration in Paleozoic Crude Oils from Tazhong Area, Tarim Basin, China. Energy Exploration and Exploitation, 2011, 29, 617-632.	2.3	20
61	Impacts of Thermochemical Sulfate Reduction, Oil Cracking, and Gas Mixing on the Petroleum Fluid Phase in the Tazhong Area, Tarim Basin, China. Energy & Fuels, 2019, 33, 968-978.	5.1	20
62	Discovery of High-Abundance Diamondoids and Thiadiamondoids and Severe TSR Alteration of Well ZS1C Condensate, Tarim Basin, China. Energy & Fuels, 2018, 32, 7383-7392.	5.1	19
63	Natural gas constituent and carbon isotopic composition in petroliferous basins, China. Journal of Asian Earth Sciences, 2014, 80, 1-17.	2.3	18
64	Genesis and distribution of hydrogen sulfide in deep heavy oil of the Halahatang area in the Tarim Basin, China. Journal of Natural Gas Geoscience, 2017, 2, 57-71.	1.2	18
65	Simulated experiment evidences of the corrosion and reform actions of H2S to carbonate reservoirs: an example of Feixianguan Formation, east Sichuan. Science Bulletin, 2007, 52, 178-183.	1.7	17
66	The Geological Characteristics of Reservoirs and Major Controlling Factors of Hydrocarbon Accumulation in the Ordovician of Tazhong Area, Tarim Basin. Energy Exploration and Exploitation, 2014, 32, 345-368.	2.3	17
67	Identification of petroleum aromatic fraction by comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry. Science Bulletin, 2010, 55, 2039-2045.	1.7	16
68	Mo isotope records from Lower Cambrian black shales, northwestern Tarim Basin (China): Implications for the early Cambrian ocean. Bulletin of the Geological Society of America, 2022, 134, 3-14.	3.3	16
69	A discussion on gas sources of the Feixianguan Formation H2S-rich giant gas fields in the northeastern Sichuan Basin. Science Bulletin, 2007, 52, 113-124.	1.7	15
70	Higher Ethanodiamondoids in Petroleum. Energy & Fuels, 2018, 32, 4996-5000.	5.1	15
71	Potential and favorable areas of petroleum exploration of ultra-deep marine strata more than 8000Âm deep in the Tarim Basin, Northwest China. Journal of Natural Gas Geoscience, 2018, 3, 321-337.	1.2	14
72	Revisiting to the Neoproterozoic tectonic evolution of the Tarim Block, NW China. Precambrian Research, 2021, 352, 106013.	2.7	14

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73	Late Ediacaran to Early Cambrian tectonicâ€“sedimentary controls on Lower Cambrian black shales in the Tarim Basin, Northwest China. Global and Planetary Change, 2021, 205, 103612.	3.5	14
74	Composition and origin of molecular compounds in the condensate oils of the Dabei gas field, Tarim Basin, NW China. Petroleum Exploration and Development, 2019, 46, 504-517.	7.0	13
75	Geology and Hydrocarbon Accumulation of the Large Ultra-Deep Rewapu Oilfield in Tarim Basin, China. Energy Exploration and Exploitation, 2015, 33, 123-143.	2.3	12
76	Carbon isotopic chemostratigraphy of the Ediacaran-Cambrian successions in the northwestern Tarim Craton, NW China: Correlations with Gondwana supercontinent. Global and Planetary Change, 2022, 208, 103702.	3.5	12
77	Characterization of Acidic Compounds in Ancient Shale of Cambrian Formation Using Fourier Transform Ion Cyclotron Resonance Mass Spectrometry, Tarim Basin, China. Energy & Fuels, 2019, 33, 1083-1089.	5.1	11
78	Comprehensive Molecular Compositions and Origins of DB301 Crude Oil from Deep Strata, Tarim Basin, China. Energy & Fuels, 2020, 34, 6799-6810.	5.1	11
79	Anomalously high enrichment of mercury in early Cambrian black shales in South China. Journal of Asian Earth Sciences, 2021, 216, 104794.	2.3	11
80	Identification of polycyclic sulfides hexahydrodibenzothiophenes and their implications for heavy oil accumulation in ultra-deep strata in Tarim Basin. Marine and Petroleum Geology, 2016, 78, 439-447.	3.3	10
81	Comparison of geochemical parameters derived from comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry and conventional gas chromatography-mass spectrometry. Science China Earth Sciences, 2011, 54, 1892-1901.	5.2	9
82	Geochemical features and origin of natural gas in heavy oil area of the Western Slope, Songliao Basin, China. Chemie Der Erde, 2014, 74, 63-75.	2.0	9
83	Geochemical and Isotopic Evidence of the Genesis of a Condensate in the Eastern Tarim Basin, China: Implications for Petroleum Exploration. Energy & Fuels, 2019, 33, 4849-4856.	5.1	9
84	Geochemical characteristics of organic-rich intervals within the Cryogenian non-glacial Datangpo Formation in southeastern Yangtze Block-implications for paleoenvironment and its control on organic matter accumulation. Precambrian Research, 2022, 378, 106777.	2.7	9
85	Distribution and treatment of harmful gas from heavy oil production in the Liaohe Oilfield, Northeast China. Petroleum Science, 2010, 7, 422-427.	4.9	8
86	Origin and Source of the Cenozoic Gas in the Beach Area of the Nanpu Sag, Bohai Bay Basin, China. Energy Exploration and Exploitation, 2014, 32, 93-111.	2.3	8
87	The origin and accumulation of ultra-deep oil in Halahatang area, northern Tarim Basin. Journal of Petroleum Science and Engineering, 2020, 195, 107898.	4.2	8
88	Nitrogen isotope evidence for oxygenated upper ocean during the Cryogenian interglacial period. Chemical Geology, 2022, 604, 120929.	3.3	8
89	Formation mechanism and geochemical characteristics of shallow natural gas in heavy oil province, China. Science in China Series D: Earth Sciences, 2008, 51, 96-106.	0.9	7
90	Molecular Characterization of Ketones in a Petroleum Source Rock. Energy & Fuels, 2018, 32, 11136-11142.	5.1	7

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91	Low-Molecular-Weight Organic Polysulfanes in Petroleum. Energy & Fuels, 2018, 32, 6770-6773.	5.1	7
92	Occurrence and Origins of Thiols in Deep Strata Crude Oils, Tarim Basin, China. ACS Earth and Space Chemistry, 2019, 3, 2499-2509.	2.7	7
93	Discovery of the high-yield well GT1 in the deep strata of the southern margin of the Junggar Basin, China: Implications for liquid petroleum potential in deep assemblage. Journal of Petroleum Science and Engineering, 2020, 191, 107178.	4.2	7
94	Molecular composition of vanadyl porphyrins in the gilsonite. Journal of Fuel Chemistry and Technology, 2020, 48, 562-567.	2.0	7
95	The Influence of Gas Invasion on the Composition of Crude Oil and the Controlling Factors for the Reservoir Fluid Phase. Energy & Fuels, 2020, 34, 2710-2725.	5.1	7
96	Genetic types and distribution of shallow-buried natural gases. Petroleum Science, 2010, 7, 347-354.	4.9	6
97	The origin and distribution of natural gas in the frontal uplift area of the Kuqa depression, Tarim Basin. Diqiu Huaxue, 2010, 29, 313-318.	0.5	6
98	Origins and differences in condensate gas reservoirs between east and west of Tazhong uplift in the Ordovician Tarim Basin, NW China. Journal of Earth Science (Wuhan, China), 2017, 28, 367-380.	3.2	6
99	Discovery and Molecular Characterization of Organic Caged Compounds and Polysulfanes in Zhongba81 Crude Oil, Sichuan Basin, China. Energy & Fuels, 2020, 34, 6811-6821.	5.1	6
100	Internal versus external locations of the South China Craton within Rodinia during the Cryogenian: Provenance history of the Nanhua Basin. Bulletin of the Geological Society of America, 2021, 133, 559-579.	3.3	6
101	Distribution and Implication of Adamantane in Crude Oils in Lunnan Area, Tarim Basin in China. Energy Exploration and Exploitation, 2012, 30, 957-970.	2.3	5
102	Discovery of Precambrian thick black mudstones and its implication for hydrocarbon exploration in the southwest Tarim Basin. Petroleum Research, 2018, 3, 124-131.	2.7	5
103	Geochemical Characteristics and the Origin of Superdeep Condensates in Tarim Basin, China. ACS Omega, 2021, 6, 7275-7285.	3.5	5
104	Biogas charging and dissipating process and its accumulation in the Sebei gasfield, Qaidam Basin, China. Science in China Series D: Earth Sciences, 2008, 51, 36-44.	0.9	4
105	Geochemical Comparison of the Deep Gases From the Sichuan and Tarim Basins, China. Frontiers in Earth Science, 2021, 9, .	1.8	4
106	Phase fractionation and oil mixing as contributors to complex petroleum phase in deep strata: A case study from LG7 block in the Tarim Basin, China. Marine and Petroleum Geology, 2022, 140, 105660.	3.3	3
107	Low marine sulfate levels during the initiation of the Cryogenian Marinoan glaciation. Precambrian Research, 2022, 377, 106737.	2.7	3
108	Provenance of newly discovered Upper Ordovician black rock units in the West Kunlun Orogen, China: Constraints from detrital zircon Uâ€“Pb chronology and wholeâ€rock geochemistry. Geological Journal, 2020, 55, 1529-1545.	1.3	2

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109	Silicon isotopic constraints on the genesis of cherts in the Ordovician sedimentary succession in Tarim Basin, Western China. Journal of Asian Earth Sciences, 2021, 215, 104795.	2.3	2
110	Geological features and hydrocarbon accumulation in the Xinken oil field, Tarim Basin. Diqiu Huaxue, 2013, 32, 367-379.	0.5	1
111	Origin and Distribution of Large Asphaltite in South China. ACS Omega, 2020, 5, 30348-30355.	3.5	1
112	Tectono-thermal impacts on the formation of a heavy oil in the eastern Tarim Basin (China): Implications for oil and gas potential. Journal of Petroleum Science and Engineering, 2022, 208, 109353.	4.2	1
113	Formation and distribution of ethanodiamondoids in deeply buried marine oil from the Tarim Basin, China. Organic Geochemistry, 2021, 162, 104327.	1.8	1
114	Genetic Types of Shallow-Buried Natural Gases and Their Distributions in Sedimentary Basins. , 2009, , .		0