Jian Cao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114 papers	1,738 citations	23 h-index	36 g-index
119 ext. papers	2,254 ext. citations	4.1 avg, IF	5.08 L-index

#	Paper	IF	Citations
114	Co-evolution of paleo-environment and bio-precursors in a Permian alkaline lake, Mahu mega-oil province, Junggar Basin: Implications for oil sources. *Science China Earth Sciences*, **2022**, 65, 462	4.6	0
113	Revised age of the Fengcheng Formation, Junggar Basin, China: Global implications for the late Paleozoic ice age. *Global and Planetary Change*, **2022**, 208, 103725	4.2	1
112	Absence of β-carotane as proxies of hydrothermal activity in brackish lacustrine sediments. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2022**, 587, 110801	2.9	1
111	Fluid-rock interactions and porosity genesis in deep clastic reservoirs: A perspective of differential oil charge intensity. *Marine and Petroleum Geology*, **2022**, 137, 105508	4.7	0
110	Diagenetic fluid controls chemical compositions of authigenic chlorite in clastic reservoirs. *Marine and Petroleum Geology*, **2022**, 137, 105520	4.7	1
109	Dynamic paleokarst geochemistry within 130 Myr in the Middle Ordovician Shanganning carbonate platform, North China. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2022**, 591, 110879	2.9	0
108	Modified LB model for simulation of gas flow in shale pore systems by introducing end effects and local effective mean free path. *Journal of Petroleum Science and Engineering*, **2022**, 212, 110285	4.4	1
107	Response of nitrogen isotopes to paleo-environment and organic carbon accumulation in a Late Paleozoic alkaline lake, Junggar Basin. *Chemical Geology*, **2022**, 602, 120884	4.2	0
106	Marine carbonate reservoirs formed in evaporite sequences in sedimentary basins: A review and new model of epeiric basin-scale moldic reservoirs. *Earth-Science Reviews*, **2021**, 223, 103860	10.2	0
105	Isotopic evidence for the formation of 25-norhopanes via in situ biodegradation in the Permian Lucaogou shales, southern Junggar Basin. *Organic Geochemistry*, **2021**, 163, 104334	3.1	1
104	Revisiting Controls on Shale Oil Accumulation in Saline Lacustrine Basins: The Permian Lucaogou Formation Mixed Rocks, Junggar Basin. *Geofluids*, **2021**, 2021, 1-25	1.5	2
103	Chemically Active Elements of Reservoir Quartz Cement Trace Hydrocarbon Migration in the Mahu Sag, Junggar Basin, NW China. *Geofluids*, **2021**, 2021, 1-19	1.5	0
102	Insights into Carboniferous subduction-related petroleum systems in the Central Asian Orogenic Belt (CAOB) from hydrocarbons in vein calcite cements, West Junggar, northwest China. *Marine and Petroleum Geology*, **2021**, 124, 104796	4.7	1
101	A review of polymetallic mineralization in lower Cambrian black shales in South China: Combined effects of seawater, hydrothermal fluids, and biological activity. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2021**, 561, 110073	2.9	4
100	Neoproterozoic postglacial paleoenvironment and hydrocarbon potential: A review and new insights from the Doushantuo Formation Sichuan Basin, China. *Earth-Science Reviews*, **2021**, 212, 103453	10.2	13
99	Spatiotemporal evolution of a Late Paleozoic alkaline lake in the Junggar Basin, China. *Marine and Petroleum Geology*, **2021**, 124, 104799	4.7	3
98	A new constraint on the antiquity of ancient haloalkaliphilic green algae that flourished in a ca. 300 Ma Paleozoic lake. *Geobiology*, **2021**, 19, 147-161	4.3	5

97	Application of Nuclear Magnetic Resonance (NMR) Spectroscopy to Lacustrine Kerogen Geochemistry: Paleogene Dongpu Sag, China. *Energy & Fuels*, **2021**, 35, 1234-1247	4.1	1
96	Elemental geochemistry proxies recover original hydrogen index values and total organic carbon contents of over-mature shales: Lower Cambrian South China. *Chemical Geology*, **2021**, 562, 120049	4.2	2
95	Coupling of paleoenvironment and biogeochemistry of deep-time alkaline lakes: A lipid biomarker perspective. *Earth-Science Reviews*, **2021**, 213, 103499	10.2	8
94	Controls on shale oil accumulation in alkaline lacustrine settings: Late Paleozoic Fengcheng Formation, northwestern Junggar Basin. *Marine and Petroleum Geology*, **2021**, 129, 105107	4.7	7
93	Discovery of shale oil in alkaline lacustrine basins: The Late Paleozoic Fengcheng Formation, Mahu Sag, Junggar Basin, China. *Petroleum Science*, **2021**, 18, 1281-1281	4.4	3
92	Natural gas accumulation in the basin-mountain transition zone, northwestern Sichuan Basin, China. *Marine and Petroleum Geology*, **2021**, 133, 105305	4.7	4
91	Dynamic biogeochemical cycling and mineralization of manganese of hydrothermal origin after the Marinoan glaciation. *Chemical Geology*, **2021**, 584, 120502	4.2	1
90	Controls of Deep-Seated Faults and Folds on Hydrocarbon Fluid Migration and Accumulation in Sedimentary Basins: A Case Study from the Northwestern Sichuan Basin, China. *Geofluids*, **2021**, 2021, 1-15	1.5	
89	Chemometric Classification of Crude Oils in Complex Petroleum Systems Using t-Distributed Stochastic Neighbor Embedding Machine Learning Algorithm. *Energy & Fuels*, **2020**, 34, 5884-5899	4.1	1
88	Major elements trace hydrocarbon sources in over-mature petroleum systems: Insights from the Sinian Sichuan Basin, China. *Precambrian Research*, **2020**, 343, 105726	3.9	8
87	Shale oil in saline lacustrine systems: A perspective of complex lithologies of fine-grained rocks. *Marine and Petroleum Geology*, **2020**, 116, 104351	4.7	8
86	Unsynchronized evolution of salinity and pH of a Permian alkaline lake influenced by hydrothermal fluids: A multi-proxy geochemical study. *Chemical Geology*, **2020**, 541, 119581	4.2	20
85	Multivariate Statistical Analysis Reveals the Heterogeneity of Lacustrine Tight Oil Accumulation in the Middle Permian Jimusar Sag, Junggar Basin, NW China. *Geofluids*, **2020**, 2020, 1-14	1.5	3
84	Investigating biological nitrogen cycling in lacustrine systems by FT-ICR-MS analysis of nitrogen-containing compounds in petroleum. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2020**, 556, 109887	2.9	5
83	An alkaline lake in the Late Paleozoic Ice Age (LPIA): A review and new insights into paleoenvironment and petroleum geology. *Earth-Science Reviews*, **2020**, 202, 103091	10.2	58
82	Authigenic clay minerals and calcite dissolution influence reservoir quality in tight sandstones: Insights from the central Junggar Basin, NW China. *Energy Geoscience*, **2020**, 1, 8-19	5.8	24
81	Nuclear magnetic resonance spectroscopy of crude oil as proxies for oil source and thermal maturity based on 1H and 13C spectra. *Fuel*, **2020**, 271, 117622	7.1	6
80	Lattice Boltzmann Simulations on Shale Gas Flow in Slit Micro/Nanopores in Kerogen and Prediction of Cut Off Pore Throat. *Energy & Fuels*, **2020**, 34, 15995-16005	4.1	1

79	Oceanic anoxia through the late Permian Changhsingian Stage in the Lower Yangtze region, South China: Evidence from sulfur isotopes and trace elements. *Chemical Geology*, **2020**, 532, 119371	4.2	12
78	In situ Raman spectroscopic quantification of CH4□CO2 mixture: application to fluid inclusions hosted in quartz veins from the Longmaxi Formation shales in Sichuan Basin, southwestern China. *Petroleum Science*, **2020**, 17, 23-35	4.4	4
77	Deformation of the Northwestern Junggar Basin (Che-Guai Region, Northwest China) and Implications for Hydrocarbon Accumulation. *Journal of Geology*, **2020**, 128, 45-68	2	0
76	Oldest preserved sodium carbonate evaporite: Late Paleozoic Fengcheng Formation, Junggar Basin, NW China. *Bulletin of the Geological Society of America*, **2020**,	3.9	5
75	Water-level and redox fluctuations in a Sichuan Basin lacustrine system coincident with the Toarcian OAE. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2020**, 558, 109942	2.9	3
74	Mechanism of ultra-deep gas accumulation at thrust fronts in the Longmenshan Mountains, lower Permian Sichuan Basin, China. *Journal of Natural Gas Science and Engineering*, **2020**, 83, 103533	4.6	9
73	Hydrocarbon evolution of the over-mature Sinian Dengying reservoir of the Neoproterozoic Sichuan Basin, China: Insights from Re□Os geochronology. *Marine and Petroleum Geology*, **2020**, 122, 104726	4.7	6
72	Marinoan glacial aftermath in South China: Paleo-environmental evolution and organic carbon accumulation in the Doushantuo shales. *Chemical Geology*, **2020**, 555, 119838	4.2	6
71	On the internal oil migration in shale systems and implications for shale oil accumulation: A combined petrological and geochemical investigation in the Eocene Nanxiang Basin, China. *Journal of Petroleum Science and Engineering*, **2020**, 184, 106493	4.4	6
70	Diverse oil and gas seeps in the southern Junggar Basin, NW China (piedmont Northern Tian Shan): Origins and links to tectono-sedimentary evolution. *Geological Journal*, **2020**, 55, 3497-3521	1.7	0
69	Reevaluating the source and accumulation of tight oil in the middle Permian Lucaogou Formation of the Junggar Basin, China. *Marine and Petroleum Geology*, **2020**, 117, 104384	4.7	16
68	Geochemistry and Genesis of Oil and Gas Seeps in the Junggar Basin, NW China: Implications for Hybrid Petroleum Systems. *Geofluids*, **2019**, 2019, 1-26	1.5	1
67	Cretaceous and Paleogene saline lacustrine source rocks discovered in the southern Junggar Basin, NW China. *Journal of Asian Earth Sciences*, **2019**, 185, 104019	2.8	4
66	How marine incursion influences the quality of lacustrine source rocks: The Paleogene Nanxiang Basin, eastern China. *AAPG Bulletin*, **2019**, 103, 1071-1096	2.5	7
65	Origin of giant vein-type bitumen deposits in the northwestern Junggar Basin, NW China: Implications for fault-controlled hydrocarbon accumulation. *Journal of Asian Earth Sciences*, **2019**, 179, 287-299	2.8	10
64	The forming mechanism of high quality glutenite reservoirs in Baikouquan formation at the Eastern slope of Mahu sag of the Junggar basin, China. *Petroleum Science and Technology*, **2019**, 37, 1665-1674	1.4	3
63	Petrologic and geochemical evidence for the formation of organic-rich siliceous rocks of the Late Permian Dalong Formation, Lower Yangtze region, southern China. *Marine and Petroleum Geology*, **2019**, 103, 41-54	4.7	13
62	Tightness and sweet spot formation in moldic-pore-type dolomite reservoirs: The middle Ordovician Majiagou Formation in the eastern Ordos Basin, central China. *Petroleum*, **2019**, 5, 341-351	4.1	2

61	Deep hydrocarbons in the northwestern Junggar Basin (NW China): Geochemistry, origin, and implications for the oil vs. gas generation potential of post-mature saline lacustrine source rocks. *Marine and Petroleum Geology*, **2019**, 109, 623-640	4.7	33
60	Probing Dynamics and Wettability of Water and Oil in Conventional and Unconventional Sandstone Rock Cores by Field-Cycling NMR Relaxometry. *Energy & Fuels*, **2019**, 33, 10583-10592	4.1	2
59	A review of carbonates as hydrocarbon source rocks: basic geochemistry and oil–gas generation. *Petroleum Science*, **2019**, 16, 713-728	4.4	34
58	Fluid–rock interaction and its effects on the Upper Triassic tight sandstones in the Sichuan Basin, China: Insights from petrographic and geochemical study of carbonate cements. *Sedimentary Geology*, **2019**, 383, 121-135	2.8	10
57	Reconstructing large-scale karst paleogeomorphology at the top of the Ordovician in the Ordos Basin, China: Control on natural gas accumulation and paleogeographic implications. *Energy Science and Engineering*, **2019**, 7, 3234-3254	3.4	11
56	Fourier-Transform Infrared Proxies for Oil Source and Maturity: Insights from the Early Permian Alkaline Lacustrine System, Junggar Basin (NW China). *Energy & Fuels*, **2019**, 33, 10704-10717	4.1	10
55	Discovery of syngenetic and eogenetic karsts in the Middle Ordovician gypsum-bearing dolomites of the eastern Ordos Basin (central China) and their heterogeneous impact on reservoir quality. *Marine and Petroleum Geology*, **2019**, 99, 190-207	4.7	24
54	Organic geochemistry, petrology, and conventional and unconventional hydrocarbon resource potential of Paleogene saline source rocks in eastern China: The Biyang Sag of the Nanxiang Basin. *Marine and Petroleum Geology*, **2019**, 101, 343-354	4.7	7
53	Hydrocarbon potential and depositional environment of the Lower Cretaceous black mudstones and shales in the coastal Guangdong Province, China. *Marine and Petroleum Geology*, **2019**, 99, 92-106	4.7	18
52	Mechanism of Organic Matter Accumulation in Residual Bay Environments: The Early Cretaceous Qiangtang Basin, Tibet. *Energy & Fuels*, **2018**, 32, 1024-1037	4.1	23
51	Diagenetic constraints on the heterogeneity of tight sandstone reservoirs: A case study on the Upper Triassic Xujiahe Formation in the Sichuan Basin, southwest China. *Marine and Petroleum Geology*, **2018**, 92, 650-669	4.7	56
50	Characteristics and formation processes of (Ba, K, NH4)-feldspar and cymrite from a lower Cambrian black shale sequence in Anhui Province, South China. *Mineralogical Magazine*, **2018**, 82, 1-21	1.7	5
49	Thermochemical oxidation of methane induced by high-valence metal oxides in a sedimentary basin. *Nature Communications*, **2018**, 9, 5131	17.4	19
48	Hydrocarbon generation capability of Sinian–Lower Cambrian shale, mudstone, and carbonate rocks in the Sichuan Basin, southwestern China: Implications for contributions to the giant Sinian Dengying natural gas accumulation. *AAPG Bulletin*, **2018**, 102, 817-853	2.5	25
47	Origin of unresolved complex mixtures (UCMs) in biodegraded oils: Insights from artificial biodegradation experiments. *Fuel*, **2018**, 231, 53-60	7.1	5
46	Stratigraphic correlations and occurrence patterns of two sets of Lower Cretaceous black shales in coastal southeastern China and geological implications: insights from zircon U–Pb ages. *Geological Journal*, **2017**, 52, 594-608	1.7	11
45	Marine to brackish depositional environments of the Jurassic–Cretaceous Suowa Formation, Qiangtang Basin (Tibet), China. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2017**, 473, 41-56	2.9	16
44	Discovery of oil bitumen co-existing with solid bitumen in the Lower Cambrian Longwangmiao giant gas reservoir, Sichuan Basin, southwestern China: Implications for hydrocarbon accumulation process. *Organic Geochemistry*, **2017**, 108, 61-81	3.1	33

43	The Au-Hosting Minerals and Process of Formation of the Carlin-Type Bojitian Deposit, Southwestern China. *Geofluids*, **2017**, 2017, 1-22	1.5	2
42	Deep-Buried Triassic Oil-Source Correlation in the Central Junggar Basin, NW China. *Geofluids*, **2017**, 2017, 1-17	1.5	2
41	Analyzing crude oils from the Junggar Basin (NW China) using comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry (GC□C-TOFMS). *Acta Geochimica*, **2017**, 36, 66-73	2.2	5
40	The distribution, hydrocarbon potential, and development of the Lower Cretaceous black shales in coastal southeastern China. *Journal of Palaeogeography*, **2017**, 6, 333-351	2.5	12
39	Geochemistry and origin of natural gas in the petroliferous Mahu sag, northwestern Junggar Basin, NW China: Carboniferous marine and Permian lacustrine gas systems. *Organic Geochemistry*, **2016**, 100, 62-79	3.1	43
38	A unique lacustrine mixed dolomitic-clastic sequence for tight oil reservoir within the middle Permian Lucaogou Formation of the Junggar Basin, NW China: Reservoir characteristics and origin. *Marine and Petroleum Geology*, **2016**, 76, 115-132	4.7	52
37	Geochemistry and origin of natural gas in the eastern Junggar Basin, NW China. *Marine and Petroleum Geology*, **2016**, 75, 240-251	4.7	20
36	Mineralogy of Early Cambrian Ni-Mo Polymetallic Black Shale at the Sancha Deposit, South China: Implications for Ore Genesis. *Resource Geology*, **2015**, 65, 1-12	1	7
35	Characterization of compounds in unresolved complex mixtures (UCM) of a Mesoproterzoic shale by using GC□C-TOFMS. *Marine and Petroleum Geology*, **2015**, 66, 791-800	4.7	15
34	Organic geochemistry and petrology of Lower Cretaceous black shales in the Qiangtang Basin, Tibet: Implications for hydrocarbon potential. *Organic Geochemistry*, **2015**, 86, 55-70	3.1	13
33	Origin of early Cambrian black-shale-hosted barite deposits in South China: Mineralogical and geochemical studies. *Journal of Asian Earth Sciences*, **2015**, 106, 79-94	2.8	33
32	Multi-stage primary and secondary hydrocarbon migration and accumulation in lacustrine Jurassic petroleum systems in the northern Qaidam Basin, NW China. *Marine and Petroleum Geology*, **2015**, 62, 90-101	4.7	23
31	Source characterization of highly mature pyrobitumens using trace and rare earth element geochemistry: Sinian□Paleozoic paleo-oil reservoirs in South China. *Organic Geochemistry*, **2015**, 83-84, 77-93	3.1	34
30	Multiple-stage migration and accumulation of Permian lacustrine mixed oils in the central Junggar Basin (NW China). *Marine and Petroleum Geology*, **2015**, 59, 187-201	4.7	34
29	Analyzing hydrocarbon fractions in crude oils by two-dimensional gas chromatography/time-of-flight mass spectrometry under reversed-phase column system. *Fuel*, **2015**, 158, 191-199	7.1	29
28	Seawater normalized REE patterns of dolomites in Geshan and Panlongdong sections, China: Implications for tracing dolomitization and diagenetic fluids. *Marine and Petroleum Geology*, **2014**, 56, 63-73	4.7	24
27	Organic geochemical identification of reservoir oil□gas□water layers in the Junggar Basin, NW China. *Marine and Petroleum Geology*, **2014**, 57, 594-602	4.7	8
26	Hydrocarbon generation potential of Triassic mudstones in the Junggar Basin, northwest China. *AAPG Bulletin*, **2014**, 98, 1885-1906	2.5	22

25	Cretaceous source rocks and associated oil and gas resources in the world and China: A review. *Petroleum Science*, **2014**, 11, 331-345	4.4	9
24	Fluctuation of organic carbon isotopes of the Lower Cretaceous in coastal southeastern China: Terrestrial response to the Oceanic Anoxic Events (OAE1b). *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2014**, 399, 352-362	2.9	17
23	New understandings of Ni–Mo mineralization in early Cambrian black shales of South China: Constraints from variations in organic matter in metallic and non-metallic intervals. *Ore Geology Reviews*, **2014**, 59, 73-82	3.2	16
22	Analysis of terpanes in biodegraded oils from China using comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry. *Fuel*, **2014**, 133, 153-162	7.1	18
21	Dissolution and its impacts on reservoir formation in moderately to deeply buried strata of mixed siliciclastic–carbonate sediments, northwestern Qaidam Basin, northwest China. *Marine and Petroleum Geology*, **2013**, 39, 124-137	4.7	46
20	Organic clots and their differential accumulation of Ni and Mo within early Cambrian black-shale-hosted polymetallic Ni–Mo deposits, Zunyi, South China. *Journal of Asian Earth Sciences*, **2013**, 62, 531-536	2.8	26
19	Artificial bacterial degradation and hydrous pyrolysis of suberin: Implications for hydrocarbon generation of suberinite. *Organic Geochemistry*, **2012**, 47, 22-33	3.1	7
18	Deciphering the Early Cretaceous transgression in coastal southeastern China: Constraints based on petrography, paleontology and geochemistry. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2012**, 317-318, 182-195	2.9	16
17	Zircon U–Pb dating of the Shipu limestone in Zhejiang Province, coastal southeast China: Implications for the Early Cretaceous environment. *Cretaceous Research*, **2012**, 37, 65-75	1.8	8
16	Geochemistry and origins of natural gases in the central Junggar Basin, northwest China. *Organic Geochemistry*, **2012**, 53, 166-176	3.1	55
15	Trace and rare earth element geochemistry of Jurassic mudstones in the northern Qaidam Basin, northwest China. *Chemie Der Erde*, **2012**, 72, 245-252	4.3	120
14	Diamondoid characterization in condensate by comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry: The Junggar Basin of Northwest China. *International Journal of Molecular Sciences*, **2012**, 13, 11399-410	6.3	16
13	Geochemistry and Origins of Natural Gases in the Southwestern Junggar Basin, Northwest China. *Energy Exploration and Exploitation*, **2012**, 30, 707-725	2.1	4
12	Identification of NW-Trending Faults in the Northwestern Junggar Basin (NW China) and its Significance of Hydrocarbon Migration. *Energy Exploration and Exploitation*, **2011**, 29, 251-265	2.1	4
11	Biomarker geochemistry of marine organic matter in the Hushan and Chaohu areas, Lower Yangtze region. *Diqiu Huaxue*, **2011**, 30, 145-152		
10	Improved understanding of petroleum migration history in the Hongche fault zone, northwestern Junggar Basin (northwest China): Constrained by vein-calcite fluid inclusions and trace elements. *Marine and Petroleum Geology*, **2010**, 27, 61-68	4.7	43
9	Complex petroleum migration and accumulation in central region of southern Junggar basin, Northwest China. *Journal of Earth Science (Wuhan, China)*, **2010**, 21, 83-93	2.2	5
8	Benthic macro red alga: A new possible bio-precursor of Jurassic mudstone source rocks in the northern Qaidam Basin, northwestern China. *Science in China Series D: Earth Sciences*, **2009**, 52, 647-654		11

7	Episodic petroleum fluid migration in fault zones of the northwestern Junggar Basin (northwest China): Evidence from hydrocarbon-bearing zoned calcite cement. *AAPG Bulletin*, **2008**, 92, 1225-1243	2.5	57
6	Possible origin of 25-norhopanes in Jurassic organic-poor mudstones from the northern Qaidam Basin (NW China). *Organic Geochemistry*, **2008**, 39, 1058-1065	3.1	19
5	Mn content of reservoir calcite cement: A novel inorganic geotracer of secondary petroleum migration in the tectonically complex Junggar Basin (NW China). *Science in China Series D: Earth Sciences*, **2007**, 50, 1796-1809		9
4	Detection of water in petroleum inclusions and its implications. *Science Bulletin*, **2006**, 51, 1501-1507	10.6	6
3	Petroleum migration and mixing in the northwestern Junggar Basin (NW China): constraints from oil-bearing fluid inclusion analyses. *Organic Geochemistry*, **2006**, 37, 827-846	3.1	71
2	A comparative study of experimental maturation of peat, brown coal and subbituminous coal: Implications for coalification. *International Journal of Coal Geology*, **2006**, 66, 108-118	5.5	16
1	The Permian hybrid petroleum system in the northwest margin of the Junggar Basin, northwest China. *Marine and Petroleum Geology*, **2005**, 22, 331-349	4.7	118