

# Guodong Jia

## List of Publications by Year in descending order

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98  
papers

3,410  
citations

117619

34  
h-index

161844

54  
g-index

100  
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100  
docs citations

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times ranked

3036  
citing authors

#	ARTICLE	IF	CITATIONS
1	Archaeal tetraether lipids and their biphytane carbon isotope composition in sediments along an estuarine biogeochemical gradient. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 318, 452-467.	3.9	2
2	In-situ provenance of brGDGTs in peat sediments: A case study from southern China and a comparison of global results. <i>Organic Geochemistry</i> , 2022, 167, 104373.	1.8	11
3	The distribution of intact polar lipid-derived branched tetraethers along a freshwater-seawater pH gradient in coastal East China Sea. <i>Chemical Geology</i> , 2022, 596, 120808.	3.3	6
4	Influence of water conditions on peat brGDGTs: A modern investigation and its paleoclimatic implications. <i>Chemical Geology</i> , 2022, 606, 120993.	3.3	6
5	Anthropogenic perturbations to the fate of terrestrial organic matter in a river-dominated marginal sea. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 333, 242-262.	3.9	9
6	The nature, timescale, and efficiency of riverine export of terrestrial organic carbon in the (sub)tropics: Insights at the molecular level from the Pearl River and adjacent coastal sea. <i>Earth and Planetary Science Letters</i> , 2021, 565, 116934.	4.4	16
7	The Silurian-Devonian boundary in East Yunnan (South China) and the minimum constraint for the lungfish-tetrapod split. <i>Science China Earth Sciences</i> , 2021, 64, 1784-1797.	5.2	16
8	Lake-level records support a mid-Holocene maximum precipitation in northern China. <i>Science China Earth Sciences</i> , 2021, 64, 2161-2171.	5.2	14
9	Photosynthetic Production Determines Bottom Water Oxygen Variations in the Upwelling Coastal South China Sea Over Recent Decades. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	1
10	Evaluation of environmental proxies based on long chain alkyl diols in the East China Sea. <i>Organic Geochemistry</i> , 2020, 139, 103948.	1.8	6
11	Cyclisation degree of tetramethylated brGDGTs in marine environments and its implication for source identification. <i>Global and Planetary Change</i> , 2020, 184, 103043.	3.5	14
12	Controlling factors and environmental significance of BIT and $\delta^{13}C$ of sedimentary GDGTs from the Pearl River Estuary, China over recent decades. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 233, 106534.	2.1	6
13	Long chain 1,14-diols as potential indicators for upper water stratification in the open South China Sea. <i>Ecological Indicators</i> , 2020, 110, 105900.	6.3	3
14	Consistent long-term Holocene warming trend at different elevations in the Altai Mountains in arid central Asia. <i>Journal of Quaternary Science</i> , 2020, 35, 1036-1045.	2.1	18
15	$CO_2$ -induced Decoupling of Tropical Surface and Thermocline Water Temperature at the Onset of Interglacials. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088805.	4.0	2
16	Sedimentary core brGDGTs in the East China Sea are mainly produced in situ as evidenced by their similar distributions with brGDGTs derived from intact polar lipids. <i>Organic Geochemistry</i> , 2020, 149, 104095.	1.8	14
17	Operational Laboratory Methods for GDGTs Groups Separation. <i>Journal of Ocean University of China</i> , 2020, 19, 1073-1080.	1.2	0
18	Ice formation on lake surfaces in winter causes warm-season bias of lacustrine brGDGT temperature estimates. <i>Biogeosciences</i> , 2020, 17, 2521-2536.	3.3	41

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19	Sedimentary records of nitrogen isotope in the western tropical Pacific linked to the eastern tropical Pacific denitrification during the last deglacial time. <i>Geo-Marine Letters</i> , 2020, 40, 89-99.	1.1	3
20	Late Eocene–Oligocene High Relief Paleotopography in the North Central Tibetan Plateau: Insights From Detrital Zircon U–Pb Geochronology and Leaf Wax Hydrogen Isotope Studies. <i>Tectonics</i> , 2020, 39, e2019TC005815.	2.8	32
21	Dispersal and aging of terrigenous organic matter in the Pearl River Estuary and the northern South China Sea Shelf. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 282, 324-339.	3.9	27
22	Comparison of the U <sup>37</sup> / <sub>K</sub> <sup>2</sup> and TEX <sub>86</sub> /H <sub>25</sub> and RI-OH temperature proxies in sediments from the northern shelf of the South China Sea. <i>Biogeosciences</i> , 2020, 17, 4489-4508.	3.3	20
23	Lipid biomarkers in suspended particulate matter and surface sediments in the Pearl River Estuary, a subtropical estuary in southern China. <i>Science of the Total Environment</i> , 2019, 646, 416-426.	8.0	42
24	Nitrogen Fixation Changes Regulated by Upper Water Structure in the South China Sea During the Last Two Glacial Cycles. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1010-1025.	4.9	5
25	Spatiotemporal variation of organic geochemical properties since the mid-Miocene in the deep South China Sea (IODP Expedition 349). <i>Journal of Asian Earth Sciences</i> , 2019, 183, 103961.	2.3	3
26	Spatially different responses of nitrogen processing to precipitation during glacial-interglacial cycles on the Chinese Loess Plateau. <i>Global and Planetary Change</i> , 2019, 174, 164-171.	3.5	1
27	Assessment of sedimentary heterocyst glycolipids as tracers of freshwater input to the Changjiang Estuary and East China Sea. <i>Chemical Geology</i> , 2019, 521, 39-48.	3.3	6
28	Long chain diol index (LDI) as a potential measure to estimate annual mean sea surface temperature in the northern South China Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 221, 1-7.	2.1	7
29	Archaeal ammonia oxidation plays a part in late Quaternary nitrogen cycling in the South China Sea. <i>Earth and Planetary Science Letters</i> , 2019, 509, 38-46.	4.4	19
30	Seasonal variations of nitrate dual isotopes in wet deposition in a tropical city in China. <i>Atmospheric Environment</i> , 2019, 196, 1-9.	4.1	43
31	Sediment records of long chain alkyl diols in an upwelling area of the coastal northern South China Sea. <i>Organic Geochemistry</i> , 2018, 121, 1-9.	1.8	16
32	Intact polar glycosidic GDGTs in sediments settle from water column as evidenced from downcore sediment records. <i>Chemical Geology</i> , 2018, 501, 12-18.	3.3	10
33	The Sources and Transformations of Dissolved Organic Matter in the Pearl River Estuary, China, as Revealed by Stable Isotopes. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6893-6908.	2.6	25
34	High-relief topography of the Nima basin in central Tibetan Plateau during the mid-Cenozoic time. <i>Chemical Geology</i> , 2018, 493, 199-209.	3.3	22
35	Seasonal distribution of archaeal lipids in surface water and its constraint on their sources and the TEX <sub>86</sub> temperature proxy in sediments of the South China Sea. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 592-606.	3.0	27
36	A 15 ka pH record from an alpine lake in north China derived from the cyclization ratio index of aquatic bGDGTs and its paleoclimatic significance. <i>Organic Geochemistry</i> , 2017, 109, 31-46.	1.8	24

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37	Isoprenoid tetraether lipids in suspended particulate matter from the East China Sea and implication for sedimentary records. <i>Organic Geochemistry</i> , 2017, 114, 81-90.	1.8	15
38	Seasonal dynamics of particulate organic matter and its response to flooding in the Pearl River estuary, China, revealed by stable isotope ( $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ ) analyses. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6835-6856.	2.6	72
39	Differential timing of C4 plant decline and grassland retreat during the penultimate deglaciation. <i>Global and Planetary Change</i> , 2017, 156, 26-33.	3.5	7
40	Asynchronous evolution of the isotopic composition and amount of precipitation in north China during the Holocene revealed by a record of compound-specific carbon and hydrogen isotopes of long-chain n-alkanes from an alpine lake. <i>Earth and Planetary Science Letters</i> , 2016, 446, 68-76.	4.4	65
41	A 15 ka lake water $\delta\text{D}$ record from Genggahai Lake, northeastern Tibetan Plateau, and its paleoclimatic significance. <i>Organic Geochemistry</i> , 2016, 97, 5-16.	1.8	20
42	Investigating the long-term palaeoclimatic controls on the $\delta\text{D}$ and $\delta^{18}\text{O}$ of precipitation during the Holocene in the Indian and East Asian monsoonal regions. <i>Earth-Science Reviews</i> , 2016, 159, 292-305.	9.1	98
43	Catchment environmental change over the 20th Century recorded by sedimentary leaf wax n-alkane $\delta^{13}\text{C}$ off the Pearl River estuary. <i>Science China Earth Sciences</i> , 2016, 59, 975-980.	5.2	5
44	Reduced early Holocene moisture availability inferred from $\delta\text{D}$ values of sedimentary n-alkanes in Zigetang Co, Central Tibetan Plateau. <i>Holocene</i> , 2016, 26, 556-566.	1.7	25
45	Warm season bias of branched GDGT temperature estimates causes underestimation of altitudinal lapse rate. <i>Organic Geochemistry</i> , 2016, 96, 11-17.	1.8	49
46	Isotopic evidence for the turnover of biological reactive nitrogen in the Pearl River Estuary, south China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 661-672.	3.0	53
47	Cooling trend over the past 4 centuries in northeastern Hong Kong waters as revealed by alkenone-derived SST records. <i>Journal of Asian Earth Sciences</i> , 2015, 114, 497-503.	2.3	16
48	Biogeochemical evidence of Holocene East Asian summer and winter monsoon variability from a tropical maar lake in southern China. <i>Quaternary Science Reviews</i> , 2015, 111, 51-61.	3.0	121
49	Reconstruction of a paleotemperature record from 0.3–3.7ka for subtropical South China using lacustrine branched GDGTs from Huguangyan Maar. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 435, 167-176.	2.3	17
50	Paleoelevation of Tibetan Lunpola basin in the Oligocene–Miocene transition estimated from leaf wax lipid dual isotopes. <i>Global and Planetary Change</i> , 2015, 126, 14-22.	3.5	46
51	Different altitude effect of leaf wax n-alkane $\delta\text{D}$ values in surface soils along two vapor transport pathways, southeastern Tibetan Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 170, 94-107.	3.9	39
52	Seasonal variation in sources and processing of particulate organic carbon in the Pearl River estuary, South China. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 167, 540-548.	2.1	73
53	Paleoenvironmental shifts and precipitation variations recorded in tropical maar lake sediments during the Holocene in Southern China. <i>Holocene</i> , 2014, 24, 1216-1225.	1.7	13
54	The development of late Holocene coastal cooling in the northern South China Sea. <i>Quaternary International</i> , 2014, 349, 300-307.	1.5	45

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55	Assessment of the difference between mid- and long chain compound specific $\delta^{13}C$ -alkanes values in lacustrine sediments as a paleoclimatic indicator. <i>Organic Geochemistry</i> , 2014, 76, 104-117.	1.8	45
56	Carbon isotopic disequilibrium between seawater and air in the coastal Northern South China Sea over the past century. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 149, 38-45.	2.1	1
57	Surface water $\delta^{18}O$ in the marginal China seas and its hydrological implications. <i>Estuarine, Coastal and Shelf Science</i> , 2014, 147, 25-31.	2.1	12
58	Nitrate $\delta^{15}N$ and $\delta^{18}O$ evidence for active biological transformation in the Changjiang Estuary and the adjacent East China Sea. <i>Acta Oceanologica Sinica</i> , 2013, 32, 11-17.	1.0	14
59	Magnetic mineralogy and its implication of contemporary coastal sediments from South China. <i>Environmental Earth Sciences</i> , 2013, 68, 1609-1617.	2.7	12
60	Alkenone and tetraether lipids reflect different seasonal seawater temperatures in the coastal northern South China Sea. <i>Organic Geochemistry</i> , 2013, 58, 115-120.	1.8	38
61	Distribution of tetraether lipids in surface sediments of the northern South China Sea: Implications for TEX <sub>86</sub> proxies. <i>Geoscience Frontiers</i> , 2013, 4, 223-229.	8.4	35
62	100-year ecosystem history elucidated from inner shelf sediments off the Pearl River estuary, China. <i>Marine Chemistry</i> , 2013, 151, 47-55.	2.3	35
63	An interlaboratory study of TEX <sub>86</sub> and BIT analysis of sediments, extracts, and standard mixtures. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 5263-5285.	2.5	76
64	Tetraether biomarker records from a loess-paleosol sequence in the western Chinese Loess Plateau. <i>Frontiers in Microbiology</i> , 2013, 4, 199.	3.5	65
65	Archaeal tetraether lipids record subsurface water temperature in the South China Sea. <i>Organic Geochemistry</i> , 2012, 50, 68-77.	1.8	78
66	Aeolian n-alkane isotopic evidence from North Pacific for a Late Miocene decline of C <sub>4</sub> plant in the arid Asian interior. <i>Earth and Planetary Science Letters</i> , 2012, 321-322, 32-40.	4.4	21
67	A Holocene palaeomagnetic secular variation record from Huguangyan maar Lake, southern China. <i>Geophysical Journal International</i> , 2012, 190, 188-200.	2.4	20
68	Distributions and temperature dependence of branched glycerol dialkyl glycerol tetraethers in recent lacustrine sediments from China and Nepal. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	72
69	Easterly denitrification signal and nitrogen fixation feedback documented in the western Pacific sediments. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	18
70	Separation of total nitrogen from sediments into organic and inorganic forms for isotopic analysis. <i>Organic Geochemistry</i> , 2011, 42, 296-299.	1.8	16
71	Compound-specific hydrogen isotopes of long-chain n-alkanes extracted from topsoil under a grassland ecosystem in northern China. <i>Science China Earth Sciences</i> , 2011, 54, 1902-1911.	5.2	8
72	Is the maximum carbon number of long-chain n-alkanes an indicator of grassland or forest? Evidence from surface soils and modern plants. <i>Science Bulletin</i> , 2011, 56, 1714-1720.	1.7	34

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73	Terrestrial n-alkane signatures in the middle Okinawa Trough during the post-glacial transgression: control by sea level and paleovegetation confounded by offshore transport. <i>Geo-Marine Letters</i> , 2010, 30, 143-150.	1.1	9
74	Relationship between climatic conditions and the relative abundance of modern C3 and C4 plants in three regions around the North Pacific. <i>Science Bulletin</i> , 2010, 55, 1931-1936.	1.7	37
75	Monthly variations in nitrogen isotopes of ammonium and nitrate in wet deposition at Guangzhou, south China. <i>Atmospheric Environment</i> , 2010, 44, 2309-2315.	4.1	78
76	Assessment of soil n-alkane $\delta^{13}C$ and branched tetraether membrane lipid distributions as tools for paleoelevation reconstruction. <i>Biogeosciences</i> , 2009, 6, 2799-2807.	3.3	79
77	Nitrate sources and watershed denitrification inferred from nitrate dual isotopes in the Beijiang River, south China. <i>Biogeochemistry</i> , 2009, 94, 163-174.	3.5	149
78	CPI values of terrestrial higher plant-derived long-chain n-alkanes: a potential paleoclimatic proxy. <i>Frontiers of Earth Science</i> , 2009, 3, 266-272.	0.5	48
79	Spatial and seasonal variations in $\delta^{13}C$ AND $\delta^{15}N$ of particulate organic matter in a dam-controlled subtropical river. <i>River Research and Applications</i> , 2009, 25, 1169-1176.	1.7	29
80	Compound specific $\delta^{13}C$ values of long chain n-alkanes derived from terrestrial higher plants are indicative of the $\delta^{13}C$ of meteoric waters: Evidence from surface soils in eastern China. <i>Organic Geochemistry</i> , 2009, 40, 922-930.	1.8	82
81	Variations in temperature and salinity of the surface water above the middle Okinawa Trough during the past 37kyr. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2009, 281, 154-164.	2.3	57
82	Soil n-alkane $\delta^{13}C$ along a mountain slope as an integrator of altitude effect on plant species $\delta^{13}C$ . <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	23
83	Evidence for the 8,200 a b.p. cooling event in the middle Okinawa Trough. <i>Geo-Marine Letters</i> , 2008, 28, 131-136.	1.1	20
84	Comparison of the carbon isotope composition of total organic carbon and long-chain n-alkanes from surface soils in eastern China and their significance. <i>Science Bulletin</i> , 2008, 53, 3921-3927.	9.0	31
85	Neutral monosaccharides as biomarker proxies for bog-forming plants for application to palaeovegetation reconstruction in ombrotrophic peat deposits. <i>Organic Geochemistry</i> , 2008, 39, 1790-1799.	1.8	56
86	Soil n-alkane $\delta^{13}C$ vs. altitude gradients along Mount Gongga, China. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5165-5174.	3.9	102
87	Sea surface temperature differences between the western equatorial Pacific and northern South China Sea since the Pliocene and their paleoclimatic implications. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	31
88	Sea surface temperature reconstruction for the middle Okinawa Trough during the last glacial-interglacial cycle using C37 unsaturated alkenones. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 246, 440-453.	2.3	36
89	Contrast in surface water $\delta^{18}O$ distributions between the Last Glacial Maximum and the Holocene in the Southern South China Sea. <i>Quaternary Science Reviews</i> , 2006, 25, 1053-1064.	3.0	9
90	Distribution and sources of organic carbon, nitrogen and their isotopes in sediments of the subtropical Pearl River estuary and adjacent shelf, Southern China. <i>Marine Chemistry</i> , 2006, 98, 274-285.	2.3	234

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91	Reconstruction of surface ocean water pCO <sub>2</sub> (aq) in Nansha area, the South China Sea during the last 30 ka. <i>Science Bulletin</i> , 2003, 48, 199.	1.7	0
92	Temporal and spatial variations in signatures of sedimented organic matter in Lingding Bay (Pearl) Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50	2.3	94
93	Changes in terrestrial ecosystem since 30 Ma in East Asia: Stable isotope evidence from black carbon in the South China Sea. <i>Geology</i> , 2003, 31, 1093.	4.4	184
94	No aridity in Sunda Land during the Last Glaciation: Evidence from molecular-isotopic stratigraphy of long-chain n-alkanes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 201, 269-281.	2.3	40
95	Biological markers and their carbon isotopes as an approach to the paleoenvironmental reconstruction of Nansha area, South China Sea, during the last 30 ka. <i>Organic Geochemistry</i> , 2002, 33, 1197-1204.	1.8	35
96	Burial of Different Types of Organic Carbon in Core 17962 from South China Sea since the Last Glacial Period. <i>Quaternary Research</i> , 2002, 58, 93-100.	1.7	20
97	Sedimentary records of black carbon in the sea area of the Nansha Islands since the last glaciation. <i>Science Bulletin</i> , 2000, 45, 1594-1598.	1.7	8
98	Long-chain alkenones in Hotong Qagan Nur Lake sediments and its paleoclimatic implications. <i>Science Bulletin</i> , 1999, 44, 259-263.	1.7	23