

Shiming Wan

List of Publications by Year in descending order

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108
papers

4,250
citations

126907

33
h-index

123424

61
g-index

113
all docs

113
docs citations

113
times ranked

2803
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstructing chemical weathering, physical erosion and monsoon intensity since 25Ma in the northern South China Sea: A review of competing proxies. <i>Earth-Science Reviews</i> , 2014, 130, 86-102.	9.1	402
2	Development of the East Asian monsoon: Mineralogical and sedimentologic records in the northern South China Sea since 20ÅMa. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 254, 561-582.	2.3	366
3	Yangtze- and Taiwan-derived sediments on the inner shelf of East China Sea. <i>Continental Shelf Research</i> , 2009, 29, 2240-2256.	1.8	214
4	Provenance, structure, and formation of the mud wedge along inner continental shelf of the East China Sea: A synthesis of the Yangtze dispersal system. <i>Marine Geology</i> , 2012, 291-294, 176-191.	2.1	203
5	Rapid transition from continental breakup to igneous oceanic crust in the South China Sea. <i>Nature Geoscience</i> , 2018, 11, 782-789.	12.9	183
6	Development of the East Asian summer monsoon: Evidence from the sediment record in the South China Sea since 8.5ÅMa. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 241, 139-159.	2.3	125
7	Deep sea records of the continental weathering and erosion response to East Asian monsoon intensification since 14ka in the South China Sea. <i>Chemical Geology</i> , 2012, 326-327, 1-18.	3.3	120
8	Holocene evolution in weathering and erosion patterns in the Pearl River delta. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2349-2368.	2.5	113
9	Human impact overwhelms long-term climate control of weathering and erosion in southwest China. <i>Geology</i> , 2015, 43, 439-442.	4.4	107
10	Increased contribution of terrigenous supply from Taiwan to the northern South China Sea since 3Ma. <i>Marine Geology</i> , 2010, 278, 115-121.	2.1	95
11	Enhanced silicate weathering of tropical shelf sediments exposed during glacial lowstands: A sink for atmospheric CO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2017, 200, 123-144.	3.9	85
12	Evolution and variability of the East Asian summer monsoon during the Pliocene: Evidence from clay mineral records of the South China Sea. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 293, 237-247.	2.3	73
13	History of Asian eolian input to the West Philippine Sea over the last one million years. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 326-328, 152-159.	2.3	71
14	History of Asian eolian input to the Sea of Japan since 15 Ma: Links to Tibetan uplift or global cooling?. <i>Earth and Planetary Science Letters</i> , 2017, 474, 296-308.	4.4	68
15	ITCZ and ENSO pacing on East Asian winter monsoon variation during the Holocene: Sedimentological evidence from the Okinawa Trough. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4410-4429.	2.6	66
16	Extreme weathering/erosion during the Miocene Climatic Optimum: Evidence from sediment record in the South China Sea. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	65
17	Pyrite sulfur isotopes constrained by sedimentation rates: Evidence from sediments on the East China Sea inner shelf since the late Pleistocene. <i>Chemical Geology</i> , 2019, 505, 66-75.	3.3	64
18	Provenance discrimination of sediments in the Zhejiang-Fujian mud belt, East China Sea: Implications for the development of the mud depocenter. <i>Journal of Asian Earth Sciences</i> , 2018, 151, 1-15.	2.3	62

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19	Sensitive grain-size records of Holocene East Asian summer monsoon in sediments of northern South China Sea slope. <i>Quaternary Research</i> , 2011, 75, 734-744.	1.7	59
20	Distribution, enrichment and sources of heavy metals in surface sediments of Hainan Island rivers, China. <i>Environmental Earth Sciences</i> , 2015, 74, 5097-5110.	2.7	59
21	Synchronicity of Kuroshio Current and climate system variability since the Last Glacial Maximum. <i>Earth and Planetary Science Letters</i> , 2016, 452, 247-257.	4.4	57
22	History of Yellow River and Yangtze River delivering sediment to the Yellow Sea since 3.5 Ma: Tectonic or climate forcing?. <i>Quaternary Science Reviews</i> , 2019, 216, 74-88.	3.0	56
23	High-resolution and high-precision correlation of dark and light layers in the Quaternary hemipelagic sediments of the Japan Sea recovered during IODP Expedition 346. <i>Progress in Earth and Planetary Science</i> , 2018, 5, .	3.0	55
24	Geochemical records in the South China Sea: implications for East Asian summer monsoon evolution over the last 20 Ma. <i>Geological Society Special Publication</i> , 2010, 342, 245-263.	1.3	53
25	Tectonic and climatic controls on long-term silicate weathering in Asia since 5 Ma. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	53
26	Clay-sized sediment provenance change in the northern Okinawa Trough since 22 kyrBP and its paleoenvironmental implication. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 399, 236-245.	2.3	53
27	Geochemical records of Taiwan-sourced sediments in the South China Sea linked to Holocene climate changes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 441, 871-881.	2.3	53
28	Quantitative estimates of Asian dust input to the western Philippine Sea in the mid-late Quaternary and its potential significance for paleoenvironment. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3182-3196.	2.5	50
29	Co-evolution of monsoonal precipitation in East Asia and the tropical Pacific ENSO system since 2.36 Ma: New insights from high-resolution clay mineral records in the West Philippine Sea. <i>Earth and Planetary Science Letters</i> , 2016, 446, 45-55.	4.4	40
30	Sr-Nd isotopic constraints on detrital sediment provenance and paleoenvironmental change in the northern Okinawa Trough during the late Quaternary. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 430, 74-84.	2.3	39
31	Increased seasonality and aridity drove the C4 plant expansion in Central Asia since the Miocene-Pliocene boundary. <i>Earth and Planetary Science Letters</i> , 2018, 502, 74-83.	4.4	39
32	Human impact overwhelms long-term climate control of fire in the Yangtze River Basin since 3.0 ka BP. <i>Quaternary Science Reviews</i> , 2020, 230, 106165.	3.0	39
33	Geochemical evidence for initiation of the modern Mekong delta in the southwestern South China Sea after 8 Ma. <i>Chemical Geology</i> , 2017, 451, 38-54.	3.3	38
34	Evolution of East Asian monsoon: Clay mineral evidence in the western Philippine Sea over the past 700 kyr. <i>Journal of Asian Earth Sciences</i> , 2012, 60, 188-196.	2.3	37
35	Sea level-controlled sediment transport to the eastern Arabian Sea over the past 600 kyr: Clay minerals and Sr Nd isotopic evidence from IODP site U1457. <i>Quaternary Science Reviews</i> , 2019, 205, 22-34.	3.0	34
36	Deepwater circulation variation in the South China Sea since the Last Glacial Maximum. <i>Geophysical Research Letters</i> , 2016, 43, 8590-8599.	4.0	33

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37	Antarctic Intermediate Water penetration into the Northern Indian Ocean during the last deglaciation. <i>Earth and Planetary Science Letters</i> , 2018, 500, 67-75.	4.4	33
38	The effects of tool edge radius on drill deflection and hole misalignment in deep hole gundrilling of Inconel-718. <i>CIRP Annals - Manufacturing Technology</i> , 2014, 63, 125-128.	3.6	32
39	Distinct control mechanism of fine-grained sediments from Yellow River and Kuyushu supply in the northern Okinawa Trough since the last glacial. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2949-2969.	2.5	30
40	Provenance, sea-level and monsoon climate controls on silicate weathering of Yellow River sediment in the northern Okinawa Trough during late last glaciation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 490, 227-239.	2.3	29
41	The silicon isotope composition of <i>Ethmodiscus rex</i> laminated diatom mats from the tropical West Pacific: Implications for silicate cycling during the Last Glacial Maximum. <i>Paleoceanography</i> , 2015, 30, 803-823.	3.0	27
42	Sedimentary processes on the Mekong subaqueous delta: Clay mineral and geochemical analysis. <i>Journal of Asian Earth Sciences</i> , 2014, 79, 520-528.	2.3	26
43	Seasonal variations in dissolved neodymium isotope composition in the Bay of Bengal. <i>Earth and Planetary Science Letters</i> , 2017, 479, 310-321.	4.4	26
44	Bathyal records of enhanced silicate erosion and weathering on the exposed Luzon shelf during glacial lowstands and their significance for atmospheric CO ₂ sink. <i>Chemical Geology</i> , 2018, 476, 302-315.	3.3	25
45	Characteristics of Clay Minerals in the Northern South China Sea and Its Implications for Evolution of East Asian Monsoon since Miocene. <i>Journal of China University of Geosciences</i> , 2008, 19, 23-37.	0.5	24
46	Terrigenous supplies variability over the past 22,000yr in the southern South China Sea slope: Relation to sea level and monsoon rainfall changes. <i>Journal of Asian Earth Sciences</i> , 2016, 117, 317-327.	2.3	24
47	Two-phase structure of tropical hydroclimate during Heinrich Stadial 1 and its global implications. <i>Quaternary Science Reviews</i> , 2019, 222, 105900.	3.0	24
48	Cold event at 5 500 a BP recorded in mud sediments on the inner shelf of the East China Sea. <i>Chinese Journal of Oceanology and Limnology</i> , 2009, 27, 975-984.	0.7	22
49	Sediment provenance and paleoenvironmental changes in the northwestern shelf mud area of the South China Sea since the mid-Holocene. <i>Continental Shelf Research</i> , 2017, 144, 21-30.	1.8	20
50	End-member modeling of the grain-size record of Sikouzi fine sediments in Ningxia (China) and implications for temperature control of Neogene evolution of East Asian winter monsoon. <i>PLoS ONE</i> , 2017, 12, e0186153.	2.5	20
51	The History of the Yangtze River Entering Sea since the Last Glacial Maximum: a Review and Look Forward. <i>Journal of Coastal Research</i> , 2004, 202, 599-604.	0.3	19
52	Sedimentary changes during the Holocene in the Bohai Sea and its paleoenvironmental implication. <i>Continental Shelf Research</i> , 2008, 28, 1333-1339.	1.8	19
53	Sea-level oscillations in the East China Sea and their implications for global seawater redistribution during 14.0–10.0 kyr BP. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 511, 298-308.	2.3	18
54	Rapid precipitation changes in the tropical West Pacific linked to North Atlantic climate forcing during the last deglaciation. <i>Quaternary Science Reviews</i> , 2018, 197, 288-306.	3.0	18

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55	Expedition 367/368 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	18
56	Expedition 346 summary. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	18
57	Nonevaporative origin for gypsum in mud sediments from the East China Sea shelf. Marine Chemistry, 2018, 205, 90-97.	2.3	16
58	REEs and Sr-Nd isotope variations in a 20 ky-sediment core from the middle Okinawa Trough, East China Sea: An in-depth provenance analysis of siliciclastic components. Marine Geology, 2019, 415, 105970.	2.1	16
59	Paleoclimatic evolution of the SW and NE South China Sea and its relationship with spectral reflectance data over various age scales. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 525, 25-43.	2.3	16
60	Sediment provenance and paleoenvironmental change in the Ulleung Basin of the East (Japan) Sea during the last 21kyr. Journal of Asian Earth Sciences, 2014, 93, 146-157.	2.3	15
61	Climate-Driven Weathering Shifts Between Highlands and Floodplains. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC008936.	2.5	15
62	Response of heterogeneous rainfall variability in East Asia to Hadley circulation reorganization during the late Quaternary. Quaternary Science Reviews, 2020, 247, 106562.	3.0	14
63	Asian dust from land to sea: processes, history and effect from modern observation to geological records. Geological Magazine, 2020, 157, 701-706.	1.5	14
64	Paleoenvironmental evolution of South Asia and its link to Himalayan uplift and climatic change since the late Eocene. Global and Planetary Change, 2021, 200, 103459.	3.5	14
65	Assemblage characteristics of clay minerals and its implications to evolution of eolian dust input to the Parece Vela Basin since 1.95 Ma. Chinese Journal of Oceanology and Limnology, 2014, 32, 174-186.	0.7	13
66	Yttrium and rare earth element partitioning in seawaters from the Bay of Bengal. Geochemistry, Geophysics, Geosystems, 2017, 18, 1388-1403.	2.5	13
67	Enhanced terrigenous organic matter input and productivity on the western margin of the Western Pacific Warm Pool during the Quaternary sea-level lowstands: Forcing mechanisms and implications for the global carbon cycle. Quaternary Science Reviews, 2020, 232, 106211.	3.0	13
68	ENSO-Like Modulated Tropical Pacific Climate Changes Since 2.36 Myr and Its Implication for the Middle Pleistocene Transition. Geochemistry, Geophysics, Geosystems, 2018, 19, 415-426.	2.5	12
69	Asynchronous Variation in the Quaternary East Asian Winter Monsoon Associated With the Tropical Pacific ENSO-Like System. Geophysical Research Letters, 2019, 46, 6955-6963.	4.0	12
70	Holocene Climate Modulates Mud Supply, Transport, and Sedimentation on the East China Sea Shelf. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005731.	2.8	12
71	Grain-size records at ODP site 1146 from the northern South China Sea: Implications on the East Asian monsoon evolution since 20 Ma. Science in China Series D: Earth Sciences, 2007, 50, 1536-1547.	0.9	11
72	Testing chemical weathering proxies in Miocene-Recent fluvial-derived sediments in the South China Sea. Geological Society Special Publication, 2016, 429, 45-72.	1.3	11

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73	Millennial-scale interaction between the East Asian winter monsoon and El Niño-related tropical Pacific precipitation in the Holocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 573, 110442.	2.3	11
74	Sediment distribution and dispersal in the southern South China Sea: Evidence from clay minerals and magnetic properties. <i>Marine Geology</i> , 2021, 439, 106560.	2.1	11
75	Expedition 367/368 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	11
76	Sediment provenance and paleoenvironmental change in the middle Okinawa Trough during the last 18.5ky: Clay mineral and geochemical evidence. <i>Quaternary International</i> , 2017, 440, 139-149.	1.5	10
77	Mineralogical and isotopic evidence for the sediment provenance of the western South Yellow Sea since MIS 3 and implications for paleoenvironmental evolution. <i>Marine Geology</i> , 2019, 414, 103-117.	2.1	10
78	Delayed Collapse of the North Pacific Intermediate Water After the Glacial Termination. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092911.	4.0	10
79	Site U1500. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	10
80	Geochronological and geochemical characterization of paleo-rivers deposits during rifting of the South China Sea. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117427.	4.4	10
81	Causal evidence between monsoon and evolution of rhizomyine rodents. <i>Scientific Reports</i> , 2015, 5, 9008.	3.3	9
82	Deep-sea Water Formation in the North Pacific During the Late Miocene Global Cooling. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA003946.	2.9	9
83	Geochemistry of rare earth elements in the mid-late Quaternary sediments of the western Philippine Sea and their paleoenvironmental significance. <i>Science China Earth Sciences</i> , 2014, 57, 802-812.	5.2	8
84	Quaternary sedimentary record in the northern Okinawa Trough indicates the tectonic control on depositional environment change. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 516, 126-138.	2.3	8
85	Contrasting Sensitivity of Weathering Proxies to Quaternary Climate and Sea-level Fluctuations on the Southern Slope of the South China Sea. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	8
86	Formation of the modern current system in the East China Sea since the early Holocene and its relationship with sea level and the monsoon system. <i>Chinese Journal of Oceanology and Limnology</i> , 2015, 33, 1062-1071.	0.7	7
87	Deep-sea carbonate preservation in the western Philippine Sea over the past 1Ma. <i>Quaternary International</i> , 2017, 459, 101-115.	1.5	7
88	Seasonal Variations in the Siliciclastic Fluxes to the Western Philippine Sea and Their Impacts on Seawater $\delta^{15}N$ Values Inferred From 1-Year of In Situ Observations Above Benham Rise. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6688-6702.	2.6	7
89	Enhancements of Himalayan and Tibetan Erosion and the Produced Organic Carbon Burial in Distal Tropical Marginal Seas During the Quaternary Glacial Periods: An Integration of Sedimentary Records. <i>Journal of Geophysical Research F: Earth Surface</i> , 2021, 126, e2020JF005828.	2.8	7
90	Site U1501. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	7

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91	Sea-level, monsoonal, and anthropogenic impacts on the millennial-scale variability of siliciclastic sediment input into the western Philippine sea since 27 ka. <i>Journal of Asian Earth Sciences</i> , 2019, 177, 250-262.	2.3	6
92	Links between iron supply from Asian dust and marine productivity in the Japan Sea since four million years ago. <i>Geological Magazine</i> , 2020, 157, 818-828.	1.5	6
93	Site U1499. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	6
94	Tectonic and Climatic Impacts on Environmental Evolution in East Asia During the Palaeogene. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
95	Comment on $\delta^{15}\text{N}$ isotope composition and clay mineral assemblages in Eolian dust from the central Philippine Sea over the last 600 kyr: Implications for the transport mechanism of Asian dust by Seo et al.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,137.	3.3	5
96	Site U1502. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	5
97	Human impact overwhelms long-term climatic control on C4 vegetation in the Yellow River Basin after 3 ka BP. <i>Geosystems and Geoenvironment</i> , 2022, 1, 100021.	3.2	5
98	Sources and origins of eolian dust to the Philippine Sea determined by major minerals and elemental geochemistry. <i>Geological Magazine</i> , 2020, 157, 719-728.	1.5	4
99	East Asian monsoon intensification promoted weathering of the magnesium-rich southern China upper crust and its global significance. <i>Science China Earth Sciences</i> , 2021, 64, 1155-1170.	5.2	4
100	Site U1504. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	4
101	Sites U1428 and U1429. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	4
102	Tectonic and Orbital Imprints in the Redox History of Japan Sea Since the Pliocene. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	2.9	4
103	First Record of Oceanic Anoxic Event 1d at Southern High Latitudes: Sedimentary and Geochemical Evidence From International Ocean Discovery Program Expedition 369. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	4
104	QUATERNARY ASSEMBLAGE CHARACTERISTIC AND PROVENANCE OF CLAY MINERALS IN THE PARECEVELA BASIN OF THE EAST PHILIPPINE SEA. <i>Marine Geology & Quaternary Geology</i> , 2013, 32, 139-148.	0.1	3
105	Site U1503. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	3
106	Site U1505. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	2
107	Quaternary eolian dust in the western Philippine Sea: Evidence from the U1499 site. <i>Journal of Geophysical Research</i> , 2009, 114, 613.	0.5	0
108	ENHANCED SILICATE WEATHERING OF TROPICAL SHELF SEDIMENTS EXPOSED DURING GLACIAL LOWSTANDS: A SINK FOR ATMOSPHERIC CO ₂ . , 2017, , .		0