

Youbin Sun

List of Publications by Year in descending order

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119
papers

8,462
citations

50244

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docs citations

123
times ranked

5556
citing authors

#	ARTICLE	IF	CITATIONS
1	Interplay between the Westerlies and Asian monsoon recorded in Lake Qinghai sediments since 32 ka. <i>Scientific Reports</i> , 2012, 2, 619.	1.6	629
2	Astronomical timescale and palaeoclimatic implication of stacked 3.6-Myr monsoon records from the Chinese Loess Plateau. <i>Quaternary Science Reviews</i> , 2006, 25, 33-48.	1.4	437
3	Influence of Atlantic meridional overturning circulation on the East Asian winter monsoon. <i>Nature Geoscience</i> , 2012, 5, 46-49.	5.4	417
4	Nd and Sr isotopic characteristics of Chinese deserts: Implications for the provenances of Asian dust. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3904-3914.	1.6	388
5	Glacial-Interglacial Indian Summer Monsoon Dynamics. <i>Science</i> , 2011, 333, 719-723.	6.0	385
6	Global Monsoon Dynamics and Climate Change. <i>Annual Review of Earth and Planetary Sciences</i> , 2015, 43, 29-77.	4.6	331
7	Orbital-scale timing and mechanisms driving Late Pleistocene Indo-Asian summer monsoons: Reinterpreting cave speleothem $\delta^{18}O$. <i>Paleoceanography</i> , 2010, 25, n/a-n/a.	3.0	289
8	New eolian red clay sequence on the western Chinese Loess Plateau linked to onset of Asian desertification about 25 Ma ago. <i>Science China Earth Sciences</i> , 2011, 54, 136-144.	2.3	267
9	Seven million years of wind and precipitation variability on the Chinese Loess Plateau. <i>Earth and Planetary Science Letters</i> , 2010, 297, 525-535.	1.8	233
10	Improved provenance tracing of Asian dust sources using rare earth elements and selected trace elements for palaeomonsoon studies on the eastern Tibetan Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6374-6399.	1.6	165
11	Late Pliocene-Pleistocene changes in mass accumulation rates of eolian deposits on the central Chinese Loess Plateau. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	151
12	Impacts of post-depositional processes on rapid monsoon signals recorded by the last glacial loess deposits of northern China. <i>Earth and Planetary Science Letters</i> , 2010, 289, 171-179.	1.8	145
13	Astronomical and glacial forcing of East Asian summer monsoon variability. <i>Quaternary Science Reviews</i> , 2015, 115, 132-142.	1.4	141
14	Zr/Rb ratio in the Chinese loess sequences and its implication for changes in the East Asian winter monsoon strength. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1471-1482.	1.6	140
15	Last deglaciation in the Okinawa Trough: Subtropical northwest Pacific link to Northern Hemisphere and tropical climate. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	139
16	Southern Hemisphere forcing of Pliocene $\delta^{18}O$ and the evolution of Indo-Asian monsoons. <i>Paleoceanography</i> , 2008, 23, .	3.0	139
17	Amplitude and timing of sea-surface temperature change in the northern South China Sea: Dynamic link to the East Asian monsoon. <i>Geology</i> , 2005, 33, 785.	2.0	137
18	Millennial-scale oscillations of the westerly jet path during the last glacial period. <i>Journal of Asian Earth Sciences</i> , 2011, 40, 1214-1220.	1.0	137

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19	Tracing the provenance of fine-grained dust deposited on the central Chinese Loess Plateau. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	132
20	Grain size of loess, palaeosol and Red Clay deposits on the Chinese Loess Plateau: Significance for understanding pedogenic alteration and palaeomonsoon evolution. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 241, 129-138.	1.0	129
21	Preferential dust sources: A geomorphological classification designed for use in global dust-cycle models. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	125
22	East Asian monsoon variability over the last seven glacial cycles recorded by a loess sequence from the northwestern Chinese Loess Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	119
23	Diverse manifestations of the mid-Pleistocene climate transition. <i>Nature Communications</i> , 2019, 10, 352.	5.8	118
24	Grain size of Lake Qinghai sediments: Implications for riverine input and Holocene monsoon variability. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 449, 41-51.	1.0	104
25	High resolution hematite/goethite records from Chinese loess sequences for the last glacial-interglacial cycle: Rapid climatic response of the East Asian Monsoon to the tropical Pacific. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	100
26	800-kyr land temperature variations modulated by vegetation changes on Chinese Loess Plateau. <i>Nature Communications</i> , 2019, 10, 1958.	5.8	97
27	Paleoenvironmental change in the middle Okinawa Trough since the last deglaciation: Evidence from the sedimentation rate and planktonic foraminiferal record. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 243, 378-393.	1.0	94
28	Grain-size characterization of reworked fine-grained aeolian deposits. <i>Earth-Science Reviews</i> , 2018, 177, 43-52.	4.0	91
29	Post-depositional remanent magnetization lock-in and the location of the Matuyama-Brunhes geomagnetic reversal boundary in marine and Chinese loess sequences. <i>Earth and Planetary Science Letters</i> , 2008, 275, 102-110.	1.8	88
30	Terrestrial selenium distribution in China is potentially linked to monsoonal climate. <i>Nature Communications</i> , 2014, 5, 4717.	5.8	87
31	The Plateau Monsoon variation during the past 130 kyr revealed by loess deposit at northeast Qinghai-Tibet (China). <i>Global and Planetary Change</i> , 2004, 41, 207-214.	1.6	77
32	Changing color of Chinese loess: Geochemical constraint and paleoclimatic significance. <i>Journal of Asian Earth Sciences</i> , 2011, 40, 1131-1138.	1.0	74
33	Eolian evidence from the Chinese Loess Plateau: the onset of the Late Cenozoic Great Glaciation in the Northern Hemisphere and Qinghai-Xizang Plateau uplift forcing. <i>Science in China Series D: Earth Sciences</i> , 1999, 42, 258-271.	0.9	72
34	Lead atmospheric deposition rates and isotopic trends in Asian dust during the last 9.5kyr recorded in an ombrotrophic peat bog on the eastern Qinghai-Tibetan Plateau. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 82, 4-22.	1.6	69
35	An assessment of magnetic and geochemical indicators of weathering and pedogenesis at two contrasting sites on the Chinese Loess plateau. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 257, 152-168.	1.0	67
36	$\delta^{13}\text{C}$ Values of loess total carbonate: A sensitive proxy for Asian summer monsoon in arid northwestern margin of the Chinese loess plateau. <i>Chemical Geology</i> , 2011, 284, 317-322.	1.4	67

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37	Distinguishing the sources of Asian dust based on electron spin resonance signal intensity and crystallinity of quartz. <i>Atmospheric Environment</i> , 2007, 41, 8537-8548.	1.9	63
38	Source-to-sink fluctuations of Asian aeolian deposits since the late Oligocene. <i>Earth-Science Reviews</i> , 2020, 200, 102963.	4.0	61
39	Impacts of grain size sorting and chemical weathering on the geochemistry of Jingyuan loess in the northwestern Chinese Loess Plateau. <i>Journal of Asian Earth Sciences</i> , 2013, 69, 177-184.	1.0	58
40	Preliminary analysis of grain-size populations with environmentally sensitive terrigenous components in marginal sea setting. <i>Science Bulletin</i> , 2003, 48, 184.	1.7	55
41	Clay-sized Hf-Nd-Es isotopic composition of Mongolian dust as a fingerprint for regional to hemispherical transport. <i>Geophysical Research Letters</i> , 2015, 42, 5661-5669.	1.5	53
42	Contribution of aeolian dust in Japan Sea sediments estimated from ESR signal intensity and crystallinity of quartz. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	1.0	51
43	Hf-Nd isotopic variability in mineral dust from Chinese and Mongolian deserts: implications for sources and dispersal. <i>Scientific Reports</i> , 2014, 4, 5837.	1.6	51
44	Iron fertilisation and biogeochemical cycles in the sub-Arctic northwest Pacific during the late Pliocene intensification of northern hemisphere glaciation. <i>Earth and Planetary Science Letters</i> , 2011, 307, 253-265.	1.8	49
45	Grain size distribution of quartz isolated from Chinese loess1 paleosol. <i>Science Bulletin</i> , 2000, 45, 2296-2298.	1.7	48
46	History and variability of Asian interior aridity recorded by eolian flux in the Chinese Loess Plateau during the past 7 Ma. <i>Science in China Series D: Earth Sciences</i> , 2002, 45, 420-429.	0.9	47
47	Elemental carbon record of paleofire history on the Chinese Loess Plateau during the last 420 ka and its response to environmental and climate changes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 252, 617-625.	1.0	47
48	ESR signal intensity and crystallinity of quartz from Gobi and sandy deserts in East Asia and implication for tracing Asian dust provenance. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2615-2627.	1.0	46
49	Temperature and leaf wax $\delta^2\text{H}$ records demonstrate seasonal and regional controls on Asian monsoon proxies. <i>Geology</i> , 2014, 42, 1075-1078.	2.0	46
50	Heterodynes dominate precipitation isotopes in the East Asian monsoon region, reflecting interaction of multiple climate factors. <i>Earth and Planetary Science Letters</i> , 2016, 455, 196-206.	1.8	46
51	Tracking eolian dust with helium and thorium: Impacts of grain size and provenance. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 175, 47-67.	1.6	46
52	Stable isotope ratio measurements of Cu and Zn in mineral dust (bulk and size fractions) from the Taklimakan Desert and the Sahel and in aerosols from the eastern tropical North Atlantic Ocean. <i>Talanta</i> , 2013, 114, 103-109.	2.9	45
53	Miocene climate change on the Chinese Loess Plateau: Possible links to the growth of the northern Tibetan Plateau and global cooling. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2097-2108.	1.0	45
54	An Integrated Study of the Eolian Dust in Pelagic Sediments From the North Pacific Ocean Based on Environmental Magnetism, Transmission Electron Microscopy, and Diffuse Reflectance Spectroscopy. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3358-3376.	1.4	45

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55	Distinct responses of East Asian summer and winter monsoons to astronomical forcing. <i>Climate of the Past</i> , 2011, 7, 1363-1370.	1.3	43
56	Centennial- to millennial-scale monsoon changes since the last deglaciation linked to solar activities and North Atlantic cooling. <i>Climate of the Past</i> , 2020, 16, 315-324.	1.3	42
57	Persistent orbital influence on millennial climate variability through the Pleistocene. <i>Nature Geoscience</i> , 2021, 14, 812-818.	5.4	41
58	Spatial pattern of grain size in the Late Pliocene "Red Clay"™ deposits (North China) indicates transport by low-level northerly winds. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 206, 149-155.	1.0	39
59	Processes controlling the geochemical composition of the South China Sea sediments during the last climatic cycle. <i>Chemical Geology</i> , 2008, 257, 240-246.	1.4	39
60	A Global Assessment of Copper, Zinc, and Lead Isotopes in Mineral Dust Sources and Aerosols. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	39
61	Are Chinese loess deposits essentially continuous?. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	38
62	Pleistocene environmental evolution in the Nihewan Basin and implication for early human colonization of North China. <i>Quaternary International</i> , 2010, 223-224, 472-478.	0.7	38
63	Evaluation of high-resolution elemental analyses of Chinese loess deposits measured by X-ray fluorescence core scanner. <i>Catena</i> , 2012, 92, 75-82.	2.2	37
64	Asian inland wildfires driven by glacial"interglacial climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5184-5189.	3.3	36
65	Lithium distribution and isotopic fractionation during chemical weathering and soil formation in a loess profile. <i>Journal of Asian Earth Sciences</i> , 2014, 87, 1-10.	1.0	34
66	A multidisciplinary approach to trace Asian dust storms from source to sink. <i>Atmospheric Environment</i> , 2015, 105, 43-52.	1.9	33
67	Magnetic signatures of natural and anthropogenic sources of urban dust aerosol. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 731-745.	1.9	33
68	Oxygen isotope signatures of quartz from major Asian dust sources: Implications for changes in the provenance of Chinese loess. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 399-410.	1.6	29
69	High-resolution scanning XRF investigation of Chinese loess and its implications for millennial-scale monsoon variability. <i>Journal of Quaternary Science</i> , 2016, 31, 191-202.	1.1	28
70	Palaeoenvironmental implication of grain-size compositions of terrace deposits on the western Chinese Loess Plateau. <i>Aeolian Research</i> , 2018, 32, 202-209.	1.1	28
71	Direct astronomical influence on abrupt climate variability. <i>Nature Geoscience</i> , 2021, 14, 819-826.	5.4	27
72	QGrain: An open-source and easy-to-use software for the comprehensive analysis of grain size distributions. <i>Sedimentary Geology</i> , 2021, 423, 105980.	1.0	26

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73	Diverse Regional Sensitivity of Summer Precipitation in East Asia to Ice Volume, CO ₂ and Astronomical Forcing. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092005.	1.5	25
74	High-sedimentation-rate loess records: A new window into understanding orbital- and millennial-scale monsoon variability. <i>Earth-Science Reviews</i> , 2021, 220, 103731.	4.0	24
75	Eolian sedimentary records for the evolution of monsoon and westerly circulations of northern China in the last 2.6 Ma. <i>Science in China Series D: Earth Sciences</i> , 2003, 46, 1049-1059.	0.9	23
76	Iron oxide characteristics of the Chinese loess-red clay sequences and their implications for the evolution of the East Asian summer monsoon since the Late Oligocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 543, 109604.	1.0	23
77	Multiscale monsoon variability during the last two climatic cycles revealed by spectral signals in Chinese loess and speleothem records. <i>Climate of the Past</i> , 2015, 11, 1067-1075.	1.3	22
78	Provenance fluctuations of aeolian deposits on the Chinese Loess Plateau since the Miocene. <i>Aeolian Research</i> , 2015, 18, 1-9.	1.1	22
79	Late Cenozoic Climate Change in Monsoon-Arid Asia and Global Changes. <i>Developments in Paleoenvironmental Research</i> , 2014, , 491-581.	7.5	22
80	Characterizing magnetic mineral assemblages of surface sediments from major Asian dust sources and implications for the Chinese loess magnetism. <i>Earth, Planets and Space</i> , 2015, 67, .	0.9	21
81	Iron oxide characteristics of mid-Miocene Red Clay deposits on the western Chinese Loess Plateau and their paleoclimatic implications. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 468, 162-172.	1.0	21
82	Monsoonal control on a delayed response of sedimentation to the 2008 Wenchuan earthquake. <i>Science Advances</i> , 2019, 5, eaav7110.	4.7	20
83	Tectonic and climatic controls on provenance changes of fine-grained dust on the Chinese Loess Plateau since the late Oligocene. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 200, 110-122.	1.6	19
84	Registration of Precession Signal in the Last Interglacial Paleosol (S 1) on the Chinese Loess Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3964-3975.	1.0	19
85	Midlatitude land surface temperature impacts the timing and structure of glacial maxima. <i>Geophysical Research Letters</i> , 2017, 44, 984-992.	1.5	19
86	Timing and lock€n effect of the Laschamp geomagnetic excursion in Chinese Loess. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4952-4961.	1.0	17
87	Tracing changes in monsoonal precipitation using Mg isotopes in Chinese loess deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 1-16.	1.6	17
88	Polluted dust derived from long-range transport as a major end member of urban aerosols and its implication of non-point pollution in northern China. <i>Science of the Total Environment</i> , 2015, 506-507, 538-545.	3.9	15
89	Millennial-scale summer monsoon oscillations over the last 260 ka revealed by high-resolution elemental results of the Mangshan loess-palaeosol sequence from the southeastern Chinese Loess Plateau. <i>Quaternary International</i> , 2020, 552, 164-174.	0.7	15
90	Asian dust from land to sea: processes, history and effect from modern observation to geological records. <i>Geological Magazine</i> , 2020, 157, 701-706.	0.9	14

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91	Monsoon variations inferred from high-resolution geochemical records of the Linxia loess/paleosol sequence, western Chinese Loess Plateau. <i>Catena</i> , 2021, 198, 105019.	2.2	14
92	A review of orbital-scale monsoon variability and dynamics in East Asia during the Quaternary. <i>Quaternary Science Reviews</i> , 2022, 288, 107593.	1.4	13
93	Desertification and dust emission history of the Tarim Basin and its relation to the uplift of northern Tibet. <i>Geological Society Special Publication</i> , 2010, 342, 45-65.	0.8	11
94	How dusty was the last glacial maximum over Europe?. <i>Quaternary Science Reviews</i> , 2021, 254, 106775.	1.4	11
95	Chinese Loess and the East Asian Monsoon. <i>Developments in Paleoenvironmental Research</i> , 2014, , 23-143.	7.5	11
96	Apparent timing and duration of the <sc>M</sc>atuyamaâ€<sc>B</sc>runhes geomagnetic reversal in <sc>C</sc>hinese loess. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4468-4480.	1.0	10
97	The precipitation â€œthreshold valueâ€ on C4/C3 abundance of the Loess Plateau, China. <i>Science Bulletin</i> , 2015, 60, 718-725.	4.3	9
98	Application of Avaatech X-ray fluorescence core-scanning in Sr/Ca analysis of speleothems. <i>Science China Earth Sciences</i> , 2019, 62, 964-973.	2.3	9
99	Review of recent developments in aeolian dust signals of sediments from the North Pacific Ocean based on magnetic minerals. <i>Geological Magazine</i> , 2020, 157, 790-805.	0.9	9
100	Temporalâ€“spatial variations in aeolian flux on the Chinese Loess Plateau during the last 150 ka. <i>Geological Magazine</i> , 2020, 157, 757-767.	0.9	8
101	Magnesium isotopic evidence for staged enhancement of the East Asian Summer Monsoon precipitation since the Miocene. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 324, 140-155.	1.6	7
102	Millennialâ€“Scale Monsoon Variability Modulated by Lowâ€“Latitude Insolation During the Last Glaciation. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
103	Mid-Pleistocene formation of modern-like desert landscape in North China. <i>Catena</i> , 2022, 216, 106399.	2.2	7
104	An improved comparison of Chinese loess with deep-sea Î¹8O record over the interval 1.6-2.6 Ma. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	6
105	Non-stationary response of Plio-Pleistocene East Asian winter monsoon variation to ice volume forcing. <i>Geological Society Special Publication</i> , 2010, 342, 79-86.	0.8	6
106	Provenance of Fe in Chinese Deserts: Evidence from the geochemistry and mineralogy of soil particles. <i>Catena</i> , 2021, 198, 105053.	2.2	6
107	Speleothemâ€“Based Hydroclimate Reconstructions During the Penultimate Deglaciation in Northern China. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004072.	1.3	6
108	Application of XRF Scanning to Different Geological Archives. <i>Earth and Space Science</i> , 2021, 8, e2020EA001589.	1.1	6

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109	Scientific drilling workshop on the Weihe Basin Drilling Project (WBDP): Cenozoic tectonic–monsoon interactions. <i>Scientific Drilling</i> , 0, 28, 63-73.	1.0	6
110	Multiproxy records of temperature, precipitation and vegetation on the central Chinese Loess Plateau over the past 200,000 years. <i>Quaternary Science Reviews</i> , 2022, 288, 107579.	1.4	6
111	An investigation of the magnetic carriers and demagnetization characteristics of the Gulang loess section, northwestern Chinese Loess Plateau. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1600-1616.	1.0	3
112	Origin of aeolian dust emitted from the Tarim Basin based on the ESR signal intensity and crystallinity index of quartz: the recycling system of fine detrital material within the basin. <i>Geological Magazine</i> , 2020, 157, 707-718.	0.9	3
113	DETERMINATION OF QUARTZ CONTENT AND CRYSTALLINITY INDEX FROM LOESS SAMPLES. <i>Marine Geology & Quaternary Geology</i> , 2013, 32, 131-135.	0.1	3
114	Asian Dust, Eolian Iron and Black Carbon Connections to Climate Changes. <i>Developments in Paleoenvironmental Research</i> , 2014, , 339-433.	7.5	2
115	Eolian sedimentary records for the evolution of monsoon and westerly circulations of northern China in the last 2.6 Ma. <i>Science in China Series D: Earth Sciences</i> , 2003, 46, 1049.	0.9	2
116	Meteorological constraints on characteristics of daily dustfall in Xi'an. <i>Atmospheric Environment</i> , 2017, 158, 98-104.	1.9	1
117	Quantifying soil-respired CO ₂ on the Chinese Loess Plateau. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 562, 110158.	1.0	1
118	Centennial-scale East Asian winter monsoon variability within the Younger Dryas. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2022, 601, 111101.	1.0	1
119	Late Cenozoic Eolian Sediments in North China. <i>Journal of the Geological Society of Japan</i> , 2005, 111, XXII-XXII.	0.2	0