Steven C Clemens

List of Publications by Year
in descending order

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82 papers	10,490 citations	50276 46 h-index	54911 84 g-index
88 all docs	88 docs citations	88 times ranked	6481 citing authors

#	Article	IF	Citations
1	On the Structure and Origin of Major Glaciation Cycles 1. Linear Responses to Milankovitch Forcing. Paleoceanography, 1992, 7, 701-738.	3.0	840
2	On the structure and origin of major glaciation cycles 2. The 100,000â€year cycle. Paleoceanography, 1993, 8, 699-735.	3.0	821
3	Forcing mechanisms of the Indian Ocean monsoon. Nature, 1991, 353, 720-725.	27.8	557
4	The Cenozoic palaeoenvironment of the Arctic Ocean. Nature, 2006, 441, 601-605.	27.8	471
5	Evolution and variability of the Asian monsoon system: state of the art and outstanding issues. Quaternary Science Reviews, 2005, 24, 595-629.	3.0	468
6	Astronomical timescale and palaeoclimatic implication of stacked 3.6-Myr monsoon records from the Chinese Loess Plateau. Quaternary Science Reviews, 2006, 25, 33-48.	3.0	437
7	Influence of Atlantic meridional overturning circulation on the East Asian winter monsoon. Nature Geoscience, 2012, 5, 46-49.	12.9	417
8	Glacial-Interglacial Indian Summer Monsoon Dynamics. Science, 2011, 333, 719-723.	12.6	385
9	A 350,000 year summer-monsoon multi-proxy stack from the Owen Ridge, Northern Arabian Sea. Marine Geology, 2003, 201, 35-51.	2.1	300
10	Nonstationary Phase of the Plio-Pleistocene Asian Monsoon. Science, 1996, 274, 943-948.	12.6	292
11	Orbital-scale timing and mechanisms driving Late Pleistocene Indo-Asian summer monsoons: Reinterpreting cave speleothemÎ´¹⁸O. Paleoceanography, 2010, 25, n/a-n/a.	3.0	289
12	Late Pleistocene variability of Arabian Sea summer monsoon winds and continental aridity: Eolian records from the lithogenic component of deepâ€sea sediments. Paleoceanography, 1990, 5, 109-145.	3.0	263
13	Contrasting the Indian and East Asian monsoons: implications on geologic timescales. Marine Geology, 2003, 201, 5-21.	2.1	240
14	Seven million years of wind and precipitation variability on the Chinese Loess Plateau. Earth and Planetary Science Letters, 2010, 297, 525-535.	4.4	233
15	Clay mineral assemblages in the northern South China Sea: implications for East Asian monsoon evolution over the past 2 million years. Marine Geology, 2003, 201, 133-146.	2.1	221
16	Millennial and orbital variations of El NiÃ±o/Southern Oscillation and high-latitude climate in the last glacial period. Nature, 2004, 428, 306-310.	27.8	210
17	Abrupt changes in Indian summer monsoon strength during 33,800 to 5500â€‰years B.P.. Geophysical Research Letters, 2015, 42, 5526-5532.	4.0	198
18	Large-scale hydrological change drove the late Miocene C4 plant expansion in the Himalayan foreland and Arabian Peninsula. Geology, 2007, 35, 531.	4.4	188

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19	Multiple expansions of C4 plant biomass in East Asia since 7 Ma coupled with strengthened monsoon circulation. Geology, 2005, 33, 705.	4.4	186
20	Improved chronostratigraphic reference curve of late Neogene seawater 87Sr/86Sr. Geology, 1995, 23, 403.	4.4	184
21	Late Miocene climate cooling and intensification of southeast Asian winter monsoon. Nature Communications, 2018, 9, 1584.	12.8	167
22	Summer monsoon intensity controls C4/C3 plant abundance during the last 35 ka in the Chinese Loess Plateau: Carbon isotope evidence from bulk organic matter and individual leaf waxes. Palaeogeography, Palaeoclimatology, Palaeoecology, 2005, 220, 243-254.	2.3	146
23	Impacts of post-depositional processes on rapid monsoon signals recorded by the last glacial loess deposits of northern China. Earth and Planetary Science Letters, 2010, 289, 171-179.	4.4	145
24	Astronomical and glacial forcing of East Asian summer monsoon variability. Quaternary Science Reviews, 2015, 115, 132-142.	3.0	141
25	Southern Hemisphere forcing of Pliocene Î´¹⁸O and the evolution of Indoâ€Asian monsoons. Paleoceanography, 2008, 23, .	3.0	139
26	Middle to late Miocene stepwise climate cooling: Evidence from a high-resolution deep water isotope curve spanning 8 million years. Paleoceanography, 2013, 28, 688-699.	3.0	139
27	East Asian monsoon variability over the last seven glacial cycles recorded by a loess sequence from the northwestern Chinese Loess Plateau. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	119
28	Diverse manifestations of the mid-Pleistocene climate transition. Nature Communications, 2019, 10, 352.	12.8	118
29	Precession-band variance missing from East Asian monsoon runoff. Nature Communications, 2018, 9, 3364.	12.8	112
30	Eccentricity forcing of Plioceneâ€“Early Pleistocene climate revealed in a marine oxygen-isotope record. Nature, 1997, 385, 801-804.	27.8	106
31	Evolution of the South Asian monsoon wind system since the late Middle Miocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 438, 160-167.	2.3	104
32	A Coupled Model Study of Glacial Asian Monsoon Variability and Indian Ocean Dipole. Journal of the Meteorological Society of Japan, 2007, 85, 1-10.	1.8	88
33	Changes in dominant moisture sources and the consequences for hydroclimate on the northeastern Tibetan Plateau during the past 32Âkyr. Quaternary Science Reviews, 2016, 131, 157-167.	3.0	87
34	Are seawater Sr/Ca variations preserved in quaternary foraminifera?. Geochimica Et Cosmochimica Acta, 1999, 63, 3535-3547.	3.9	77
35	Millennial-band climate spectrum resolved and linked to centennial-scale solar cycles. Quaternary Science Reviews, 2005, 24, 521-531.	3.0	69
36	The importance of solar insolation on the temperature variations for the past 110 kyr on the Chinese Loess Plateau. Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 317-318, 128-133.	2.3	69

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37	A 500,000 year record of Indian summer monsoon dynamics recorded by eastern equatorial Indian Ocean upper water-column structure. Quaternary Science Reviews, 2013, 77, 167-180.	3.0	69
38	Dust response to seasonal atmospheric forcing: Proxy evaluation and calibration. Paleoceanography, 1998, 13, 471-490.	3.0	65
39	The timing of orbital-scale Indian monsoon changes. Quaternary Science Reviews, 2007, 26, 275-278.	3.0	65
40	Magnetic signature of environmental changes in the last 1.2 Myr at ODP Site 1146, South China Sea. Marine Geology, 2003, 201, 119-132.	2.1	63
41	Southern Hemisphere forcing of South Asian monsoon precipitation over the past ~1 million years. Nature Communications, 2018, 9, 4702.	12.8	62
42	The 3.6-Ma aridity and westerlies history over midlatitude Asia linked with global climatic cooling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24729-24734.	7.1	62
43	Î´18O and salinity variability from the Last Glacial Maximum to Recent in the Bay of Bengal and Andaman Sea. Quaternary Science Reviews, 2016, 135, 79-91.	3.0	60
44	Synchronous changes in seawater strontium isotope composition and global climate. Nature, 1993, 363, 607-610.	27.8	56
45	Abundant C4 plants on the Tibetan Plateau during the Lateglacial and early Holocene. Quaternary Science Reviews, 2014, 87, 24-33.	3.0	52
46	Remote and local drivers of Pleistocene South Asian summer monsoon precipitation: A test for future predictions. Science Advances, 2021, 7, .	10.3	50
47	Temperature and leaf wax Î´2H records demonstrate seasonal and regional controls on Asian monsoon proxies. Geology, 2014, 42, 1075-1078.	4.4	46
48	Heterodynes dominate precipitation isotopes in the East Asian monsoon region, reflecting interaction of multiple climate factors. Earth and Planetary Science Letters, 2016, 455, 196-206.	4.4	46
49	Hemispheric Insolation Forcing of the Indian Ocean and Asian Monsoon: Local versus Remote Impacts*. Journal of Climate, 2006, 19, 6195-6208.	3.2	45
50	Miocene climate change on the Chinese Loess Plateau: Possible links to the growth of the northern Tibetan Plateau and global cooling. Geochemistry, Geophysics, Geosystems, 2015, 16, 2097-2108.	2.5	45
51	Persistent orbital influence on millennial climate variability through the Pleistocene. Nature Geoscience, 2021, 14, 812-818.	12.9	41
52	Processes controlling the geochemical composition of the South China Sea sediments during the last climatic cycle. Chemical Geology, 2008, 257, 240-246.	3.3	39
53	Eastâ€“West similarities and differences in the surface and deep northern Arabian Sea records during the past 21Kyr. Palaeogeography, Palaeoclimatology, Palaeoecology, 2011, 301, 75-85.	2.3	37
54	Multiproxy record of monsoon variability from the Ganga Plain during 400â€“1200 A.D.. Quaternary International, 2015, 371, 157-163.	1.5	36

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55	Combined high- and low-latitude forcing of East Asian monsoon precipitation variability in the Pliocene warm period. Science Advances, 2020, 6, .	10.3	32
56	Greenhouse Gas and Ice Volume Drive Pleistocene Indian Summer Monsoon Precipitation Isotope Variability. Geophysical Research Letters, 2021, 48, e2020GL092249.	4.0	30
57	Modeling the time-dependent response of the Asian summer monsoon to obliquity forcing in a coupled GCM: a PHASEMAP sensitivity experiment. Climate Dynamics, 2011, 36, 695-710.	3.8	29
58	Retrospective dry bulk density estimates from southeast Indian Ocean sediments â€" Comparison of water loss and chloride-ion methods. Marine Geology, 1987, 76, 57-69.	2.1	28
59	An astronomical tuning strategy for Pliocene sections: implications for global-scale correlation and phase relationships. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1999, 357, 1949-1973.	3.4	27
60	What Can We Learn From Xâ€Ray Fluorescence Core Scanning Data? A Paleomonsoon Case Study. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008414.	2.5	27
61	Quaternary clay mineralogy in the northern South China Sea (ODP Site 1146). Science in China Series D: Earth Sciences, 2003, 46, 1223-1235.	0.9	26
62	Role of Asian summer monsoon subsystems in the inter-hemispheric progression of deglaciation. Nature Geoscience, 2019, 12, 290-295.	12.9	26
63	A â^¼12 Myr Miocene Record of East Asian Monsoon Variability From the South China Sea. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004267.	2.9	26
64	High-sedimentation-rate loess records: A new window into understanding orbital- and millennial-scale monsoon variability. Earth-Science Reviews, 2021, 220, 103731.	9.1	24
65	Isotopic evidence that recent agriculture overprints climate variability in nitrogen deposition to the Tibetan Plateau. Environment International, 2020, 138, 105614.	10.0	23
66	Interhemispheric moisture transport in the Indian Ocean summer monsoon: Dataâ€model and modelâ€model comparisons. Paleoceanography, 1992, 7, 633-643.	3.0	21
67	Quaternary palaeoceanographic changes in the northern South China Sea (ODP Site 1146): radiolarian evidence. Journal of Quaternary Science, 2003, 18, 745-756.	2.1	19
68	Methane, Monsoons, and Modulation of Millennialâ€Scale Climate. Geophysical Research Letters, 2020, 47, e2020GL087613.	4.0	19
69	Midlatitude land surface temperature impacts the timing and structure of glacial maxima. Geophysical Research Letters, 2017, 44, 984-992.	4.0	19
70	North Atlantic climatic changes reflected in the Late Quaternary foraminiferal abundance record of the Andaman Sea, north-eastern Indian Ocean. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 446, 11-18.	2.3	18
71	Monsoon variations inferred from high-resolution geochemical records of the Linxia loess/paleosol sequence, western Chinese Loess Plateau. Catena, 2021, 198, 105019.	5.0	14
72	Increased interglacial atmospheric CO2 levels followed the mid-Pleistocene Transition. Nature Geoscience, 2022, 15, 307-313.	12.9	13

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73	A review of orbital-scale monsoon variability and dynamics in East Asia during the Quaternary. Quaternary Science Reviews, 2022, 288, 107593.	3.0	13
74	A Brief Commentary on the Interpretation of Chinese Speleothem Î´18O Records as Summer Monsoon Intensity Tracers. Quaternary, 2020, 3, 7.	2.0	11
75	Late Quaternary record of Indian summer monsoonâ€induced stratification and productivity collapse in the Andaman Sea. Journal of Quaternary Science, 2021, 36, 298-310.	2.1	10
76	Abrupt Indian summer monsoon shifts aligned with Heinrich events and D-O cycles since MIS 3. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 583, 110658.	2.3	10
77	The monsoon imprint during the â€˜atypicalâ€™ MIS 13 as seen through north and equatorial Indian Ocean records. Quaternary Research, 2011, 76, 285-293.	1.7	9
78	Dipole patterns in tropical precipitation were pervasive across landmasses throughout Marine Isotope Stage 5. Communications Earth & Environment, 2021, 2, .	6.8	7
79	Non-stationary response of Plio-Pleistocene East Asian winter monsoon variation to ice volume forcing. Geological Society Special Publication, 2010, 342, 79-86.	1.3	6
80	Application of XRF Scanning to Different Geological Archives. Earth and Space Science, 2021, 8, e2020EA001589.	2.6	6
81	Roles of insolation forcing and CO2 forcing on Late Pleistocene seasonal sea surface temperatures. Nature Communications, 2021, 12, 5742.	12.8	3
82	Monsoon Reconstructions using Bulk and Individual Foraminiferal Analyses in Marine Sediments Offshore India. Current Science, 2020, 119, 328.	0.8	3