

Steven C Clemens

List of Publications by Citations

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79
papers

8,217
citations

43
h-index

88
g-index

88
ext. papers

9,330
ext. citations

9.7
avg, IF

5.74
L-index

#	Paper	IF	Citations
79	On the Structure and Origin of Major Glaciation Cycles 1. Linear Responses to Milankovitch Forcing. <i>Paleoceanography</i> , 1992 , 7, 701-738		678
78	On the structure and origin of major glaciation cycles 2. The 100,000-year cycle. <i>Paleoceanography</i> , 1993 , 8, 699-735		648
77	Forcing mechanisms of the Indian Ocean monsoon. <i>Nature</i> , 1991 , 353, 720-725	50.4	487
76	Evolution and variability of the Asian monsoon system: state of the art and outstanding issues. <i>Quaternary Science Reviews</i> , 2005 , 24, 595-629	3.9	405
75	The Cenozoic palaeoenvironment of the Arctic Ocean. <i>Nature</i> , 2006 , 441, 601-5	50.4	400
74	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	3.9	348
73	Glacial-interglacial Indian summer monsoon dynamics. <i>Science</i> , 2011 , 333, 719-23	33.3	304
72	Influence of Atlantic meridional overturning circulation on the East Asian winter monsoon. <i>Nature Geoscience</i> , 2012 , 5, 46-49	18.3	303
71	Nonstationary Phase of the Plio-Pleistocene Asian Monsoon. <i>Science</i> , 1996 , 274, 943-8	33.3	252
70	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		240
69	A 350,000 year summer-monsoon multi-proxy stack from the Owen Ridge, Northern Arabian Sea. <i>Marine Geology</i> , 2003 , 201, 35-51	3.3	240
68	Late Pleistocene variability of Arabian Sea summer monsoon winds and continental aridity: Eolian records from the lithogenic component of deep-sea sediments. <i>Paleoceanography</i> , 1990 , 5, 109-145		219
67	Contrasting the Indian and East Asian monsoons: implications on geologic timescales. <i>Marine Geology</i> , 2003 , 201, 5-21	3.3	206
66	Millennial and orbital variations of El Niño/Southern Oscillation and high-latitude climate in the last glacial period. <i>Nature</i> , 2004 , 428, 306-10	50.4	190
65	Clay mineral assemblages in the northern South China Sea: implications for East Asian monsoon evolution over the past 2 million years. <i>Marine Geology</i> , 2003 , 201, 133-146	3.3	184
64	Seven million years of wind and precipitation variability on the Chinese Loess Plateau. <i>Earth and Planetary Science Letters</i> , 2010 , 297, 525-535	5.3	175
63	Multiple expansions of C4 plant biomass in East Asia since 7 Ma coupled with strengthened monsoon circulation. <i>Geology</i> , 2005 , 33, 705	5	167

62	Large-scale hydrological change drove the late Miocene C4 plant expansion in the Himalayan foreland and Arabian Peninsula. <i>Geology</i> , 2007 , 35, 531	5	165
61	Improved chronostratigraphic reference curve of late Neogene seawater $^{87}\text{Sr}/^{86}\text{Sr}$. <i>Geology</i> , 1995 , 23, 403	5	152
60	Abrupt changes in Indian summer monsoon strength during 33,800 to 5500 years B.P.. <i>Geophysical Research Letters</i> , 2015 , 42, 5526-5532	4.9	139
59	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. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005 , 220, 243-254	2.9	128
58	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	5.3	113
57	Southern Hemisphere forcing of Pliocene $\delta^{18}\text{O}$ and the evolution of Indo-Asian monsoons. <i>Paleoceanography</i> , 2008 , 23, n/a-n/a		106
56	Middle to late Miocene stepwise climate cooling: Evidence from a high-resolution deep water isotope curve spanning 8 million years. <i>Paleoceanography</i> , 2013 , 28, 688-699		103
55	Astronomical and glacial forcing of East Asian summer monsoon variability. <i>Quaternary Science Reviews</i> , 2015 , 115, 132-142	3.9	102
54	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	3.6	100
53	Eccentricity forcing of Pliocene/Early Pleistocene climate revealed in a marine oxygen-isotope record. <i>Nature</i> , 1997 , 385, 801-804	50.4	92
52	Late Miocene climate cooling and intensification of southeast Asian winter monsoon. <i>Nature Communications</i> , 2018 , 9, 1584	17.4	91
51	Evolution of the South Asian monsoon wind system since the late Middle Miocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015 , 438, 160-167	2.9	78
50	A Coupled Model Study of Glacial Asian Monsoon Variability and Indian Ocean Dipole. <i>Journal of the Meteorological Society of Japan</i> , 2007 , 85, 1-10	2.8	75
49	Are seawater Sr/Ca variations preserved in quaternary foraminifera?. <i>Geochimica Et Cosmochimica Acta</i> , 1999 , 63, 3535-3547	5.5	73
48	Precession-band variance missing from East Asian monsoon runoff. <i>Nature Communications</i> , 2018 , 9, 3364	17.4	69
47	Changes in dominant moisture sources and the consequences for hydroclimate on the northeastern Tibetan Plateau during the past 32 kyr. <i>Quaternary Science Reviews</i> , 2016 , 131, 157-167	3.9	62
46	The importance of solar insolation on the temperature variations for the past 110 kyr on the Chinese Loess Plateau. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012 , 317-318, 128-133	2.9	59
45	Millennial-band climate spectrum resolved and linked to centennial-scale solar cycles. <i>Quaternary Science Reviews</i> , 2005 , 24, 521-531	3.9	57

44	Diverse manifestations of the mid-Pleistocene climate transition. <i>Nature Communications</i> , 2019 , 10, 35217.4	56
43	The timing of orbital-scale Indian monsoon changes. <i>Quaternary Science Reviews</i> , 2007 , 26, 275-278	3.9 56
42	Magnetic signature of environmental changes in the last 1.2 Myr at ODP Site 1146, South China Sea. <i>Marine Geology</i> , 2003 , 201, 119-132	3.3 55
41	A 500,000 year record of Indian summer monsoon dynamics recorded by eastern equatorial Indian Ocean upper water-column structure. <i>Quaternary Science Reviews</i> , 2013 , 77, 167-180	3.9 54
40	Dust response to seasonal atmospheric forcing: Proxy evaluation and calibration. <i>Paleoceanography</i> , 1998 , 13, 471-490	54
39	$\delta^{18}O$ and salinity variability from the Last Glacial Maximum to Recent in the Bay of Bengal and Andaman Sea. <i>Quaternary Science Reviews</i> , 2016 , 135, 79-91	3.9 53
38	Synchronous changes in seawater strontium isotope composition and global climate. <i>Nature</i> , 1993 , 363, 607-610	50.4 48
37	Abundant C4 plants on the Tibetan Plateau during the Lateglacial and early Holocene. <i>Quaternary Science Reviews</i> , 2014 , 87, 24-33	3.9 44
36	Hemispheric Insolation Forcing of the Indian Ocean and Asian Monsoon: Local versus Remote Impacts*. <i>Journal of Climate</i> , 2006 , 19, 6195-6208	4.4 42
35	Southern Hemisphere forcing of South Asian monsoon precipitation over the past ~1 million years. <i>Nature Communications</i> , 2018 , 9, 4702	17.4 40
34	Processes controlling the geochemical composition of the South China Sea sediments during the last climatic cycle. <i>Chemical Geology</i> , 2008 , 257, 240-246	4.2 32
33	Multiproxy record of monsoon variability from the Ganga Plain during 400-200 A.D.. <i>Quaternary International</i> , 2015 , 371, 157-163	2 31
32	Temperature and leaf wax δ^2H records demonstrate seasonal and regional controls on Asian monsoon proxies. <i>Geology</i> , 2014 , 42, 1075-1078	5 31
31	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	5.3 31
30	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	3.6 29
29	East-West similarities and differences in the surface and deep northern Arabian Sea records during the past 21 Kyr. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011 , 301, 75-85	2.9 29
28	Modeling the time-dependent response of the Asian summer monsoon to obliquity forcing in a coupled GCM: a PHASEMAP sensitivity experiment. <i>Climate Dynamics</i> , 2011 , 36, 695-710	4.2 28
27	The 3.6-Ma aridity and westerlies history over midlatitude Asia linked with global climatic cooling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 24729-24734	11.5 23

26	Quaternary clay mineralogy in the northern South China Sea (ODP Site 1146). <i>Science in China Series D: Earth Sciences</i> , 2003 , 46, 1223-1235		21
25	Retrospective dry bulk density estimates from southeast Indian Ocean sediments [Comparison of water loss and chloride-ion methods. <i>Marine Geology</i> , 1987 , 76, 57-69	3.3	20
24	An astronomical tuning strategy for Pliocene sections: implications for global-scale correlation and phase relationships. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999 , 357, 1949-1973	3	19
23	Role of Asian summer monsoon subsystems in the inter-hemispheric progression of deglaciation. <i>Nature Geoscience</i> , 2019 , 12, 290-295	18.3	17
22	Interhemispheric moisture transport in the Indian Ocean summer monsoon: Data-model and model-model comparisons. <i>Paleoceanography</i> , 1992 , 7, 633-643		16
21	Quaternary palaeoceanographic changes in the northern South China Sea (ODP Site 1146): radiolarian evidence. <i>Journal of Quaternary Science</i> , 2003 , 18, 745-756	2.3	15
20	What Can We Learn From X-Ray Fluorescence Core Scanning Data? A Paleomonsoon Case Study. <i>Geochemistry, Geophysics, Geosystems</i> , 2020 , 21, e2019GC008414	3.6	14
19	North Atlantic climatic changes reflected in the Late Quaternary foraminiferal abundance record of the Andaman Sea, north-eastern Indian Ocean. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016 , 446, 11-18	2.9	13
18	Remote and local drivers of Pleistocene South Asian summer monsoon precipitation: A test for future predictions. <i>Science Advances</i> , 2021 , 7,	14.3	13
17	Isotopic evidence that recent agriculture overprints climate variability in nitrogen deposition to the Tibetan Plateau. <i>Environment International</i> , 2020 , 138, 105614	12.9	12
16	Combined high- and low-latitude forcing of East Asian monsoon precipitation variability in the Pliocene warm period. <i>Science Advances</i> , 2020 , 6,	14.3	11
15	Greenhouse Gas and Ice Volume Drive Pleistocene Indian Summer Monsoon Precipitation Isotope Variability. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092249	4.9	10
14	Midlatitude land surface temperature impacts the timing and structure of glacial maxima. <i>Geophysical Research Letters</i> , 2017 , 44, 984-992	4.9	10
13	The monsoon imprint during the "atypical" MIS 13 as seen through north and equatorial Indian Ocean records. <i>Quaternary Research</i> , 2011 , 76, 285-293	1.9	8
12	Methane, Monsoons, and Modulation of Millennial-Scale Climate. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087613	4.9	7
11	Monsoon variations inferred from high-resolution geochemical records of the Linxia loess/paleosol sequence, western Chinese Loess Plateau. <i>Catena</i> , 2021 , 198, 105019	5.8	6
10	A Brief Commentary on the Interpretation of Chinese Speleothem $\delta^{18}O$ Records as Summer Monsoon Intensity Tracers. <i>Quaternary</i> , 2020 , 3, 7	2.2	5
9	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	1.7	5

8	Persistent orbital influence on millennial climate variability through the Pleistocene. <i>Nature Geoscience</i> ,	18.3	5
7	Late Quaternary record of Indian summer monsoon-induced stratification and productivity collapse in the Andaman Sea. <i>Journal of Quaternary Science</i> , 2021 , 36, 298-310	2.3	5
6	A ~12 Myr Miocene Record of East Asian Monsoon Variability From the South China Sea. <i>Paleoceanography and Paleoclimatology</i> , 2021 , 36, e2021PA004267	3.3	5
5	High-sedimentation-rate loess records: A new window into understanding orbital- and millennial-scale monsoon variability. <i>Earth-Science Reviews</i> , 2021 , 220, 103731	10.2	4
4	Dipole patterns in tropical precipitation were pervasive across landmasses throughout Marine Isotope Stage 5. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	3
3	Application of XRF Scanning to Different Geological Archives. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001589	0.1	2
2	Abrupt Indian summer monsoon shifts aligned with Heinrich events and D-O cycles since MIS 3. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021 , 583, 110658	2.9	2
1	Roles of insolation forcing and CO forcing on Late Pleistocene seasonal sea surface temperatures. <i>Nature Communications</i> , 2021 , 12, 5742	17.4	0