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	Increased interglacial atmospheric CO2 levels followed the mid-Pleistocene Transition. Nature Geoscience, 2022, 15, 307-313.	12.9	13
2	A review of orbital-scale monsoon variability and dynamics in East Asia during the Quaternary. Quaternary Science Reviews, 2022, 288, 107593.	3.0	13
3	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
4	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
5	Greenhouse Gas and Ice Volume Drive Pleistocene Indian Summer Monsoon Precipitation Isotope Variability. Geophysical Research Letters, 2021, 48, e2020GL092249.	4.0	30
6	Dipole patterns in tropical precipitation were pervasive across landmasses throughout Marine Isotope Stage 5. Communications Earth & Environment, 2021, 2, .	6.8	7
7	Remote and local drivers of Pleistocene South Asian summer monsoon precipitation: A test for future predictions. Science Advances, 2021, 7, .	10.3	50
8	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
9	Application of XRF Scanning to Different Geological Archives. Earth and Space Science, 2021, 8, e2020EA001589.	2.6	6
10	Roles of insolation forcing and CO2 forcing on Late Pleistocene seasonal sea surface temperatures. Nature Communications, 2021, 12, 5742.	12.8	3
11	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
12	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
13	Persistent orbital influence on millennial climate variability through the Pleistocene. Nature Geoscience, 2021, 14, 812-818.	12.9	41
14	What Can We Learn From Xâ€Ray Fluorescence Core Scanning Data? A Paleomonsoon Case Study. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008414.	2.5	27
15	Combined high- and low-latitude forcing of East Asian monsoon precipitation variability in the Pliocene warm period. Science Advances, 2020, 6, .	10.3	32
16	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
17	Isotopic evidence that recent agriculture overprints climate variability in nitrogen deposition to the Tibetan Plateau. Environment International, 2020, 138, 105614.	10.0	23
18	A Brief Commentary on the Interpretation of Chinese Speleothem Î´18O Records as Summer Monsoon Intensity Tracers. Quaternary, 2020, 3, 7.	2.0	11

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19	Methane, Monsoons, and Modulation of Millennialâ€Scale Climate. Geophysical Research Letters, 2020, 47, e2020GL087613.	4.0	19
20	Monsoon Reconstructions using Bulk and Individual Foraminiferal Analyses in Marine Sediments Offshore India. Current Science, 2020, 119, 328.	0.8	3
21	Diverse manifestations of the mid-Pleistocene climate transition. Nature Communications, 2019, 10, 352.	12.8	118
22	Role of Asian summer monsoon subsystems in the inter-hemispheric progression of deglaciation. Nature Geoscience, 2019, 12, 290-295.	12.9	26
23	Late Miocene climate cooling and intensification of southeast Asian winter monsoon. Nature Communications, 2018, 9, 1584.	12.8	167
24	Southern Hemisphere forcing of South Asian monsoon precipitation over the past ~1 million years. Nature Communications, 2018, 9, 4702.	12.8	62
25	Precession-band variance missing from East Asian monsoon runoff. Nature Communications, 2018, 9, 3364.	12.8	112
26	Midlatitude land surface temperature impacts the timing and structure of glacial maxima. Geophysical Research Letters, 2017, 44, 984-992.	4.0	19
27	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
28	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
29	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
30	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
31	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
32	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
33	Multiproxy record of monsoon variability from the Ganga Plain during 400â€“1200 A.D.. Quaternary International, 2015, 371, 157-163.	1.5	36
34	Astronomical and glacial forcing of East Asian summer monsoon variability. Quaternary Science Reviews, 2015, 115, 132-142.	3.0	141
35	Evolution of the South Asian monsoon wind system since the late Middle Miocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 438, 160-167.	2.3	104
36	Temperature and leaf wax Î´2H records demonstrate seasonal and regional controls on Asian monsoon proxies. Geology, 2014, 42, 1075-1078.	4.4	46

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37	Abundant C4 plants on the Tibetan Plateau during the Lateglacial and early Holocene. Quaternary Science Reviews, 2014, 87, 24-33.	3.0	52
38	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
39	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
40	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
41	Influence of Atlantic meridional overturning circulation on the East Asian winter monsoon. Nature Geoscience, 2012, 5, 46-49.	12.9	417
42	Glacial-Interglacial Indian Summer Monsoon Dynamics. Science, 2011, 333, 719-723.	12.6	385
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	Southern Hemisphere forcing of Pliocene Î´¹⁸O and the evolution of Indoâ€Asian monsoons. Paleoceanography, 2008, 23, .	3.0	139
52	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
53	The timing of orbital-scale Indian monsoon changes. Quaternary Science Reviews, 2007, 26, 275-278.	3.0	65
54	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

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55	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
56	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
57	The Cenozoic palaeoenvironment of the Arctic Ocean. Nature, 2006, 441, 601-605.	27.8	471
58	Hemispheric Insolation Forcing of the Indian Ocean and Asian Monsoon: Local versus Remote Impacts*. Journal of Climate, 2006, 19, 6195-6208.	3.2	45
59	Multiple expansions of C4 plant biomass in East Asia since 7 Ma coupled with strengthened monsoon circulation. Geology, 2005, 33, 705.	4.4	186
60	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
61	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
62	Millennial-band climate spectrum resolved and linked to centennial-scale solar cycles. Quaternary Science Reviews, 2005, 24, 521-531.	3.0	69
63	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
64	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
65	Contrasting the Indian and East Asian monsoons: implications on geologic timescales. Marine Geology, 2003, 201, 5-21.	2.1	240
66	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
67	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
68	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
69	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
70	Are seawater Sr/Ca variations preserved in quaternary foraminifera?. Geochimica Et Cosmochimica Acta, 1999, 63, 3535-3547.	3.9	77
71	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
72	Dust response to seasonal atmospheric forcing: Proxy evaluation and calibration. Paleoceanography, 1998, 13, 471-490.	3.0	65

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73	Eccentricity forcing of Plioceneâ€“Early Pleistocene climate revealed in a marine oxygen-isotope record. Nature, 1997, 385, 801-804.	27.8	106
74	Nonstationary Phase of the Plio-Pleistocene Asian Monsoon. Science, 1996, 274, 943-948.	12.6	292
75	Improved chronostratigraphic reference curve of late Neogene seawater 87Sr/86Sr. Geology, 1995, 23, 403.	4.4	184
76	Synchronous changes in seawater strontium isotope composition and global climate. Nature, 1993, 363, 607-610.	27.8	56
77	On the structure and origin of major glaciation cycles 2. The 100,000â€year cycle. Paleoceanography, 1993, 8, 699-735.	3.0	821
78	Interhemispheric moisture transport in the Indian Ocean summer monsoon: Dataâ€model and modelâ€model comparisons. Paleoceanography, 1992, 7, 633-643.	3.0	21
79	On the Structure and Origin of Major Glaciation Cycles 1. Linear Responses to Milankovitch Forcing. Paleoceanography, 1992, 7, 701-738.	3.0	840
80	Forcing mechanisms of the Indian Ocean monsoon. Nature, 1991, 353, 720-725.	27.8	557
81	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
82	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