Kyger C Lohmann

List of Publications by Year
in descending order

110 papers	9,641 citations	50276 46 h-index	53230 85 g-index
111 all docs	111 docs citations	111 times ranked	7156 citing authors

#	Article	IF	Citations
1	Seasonally Variable Aquifer Discharge and Cooler Climate in Bermuda During the Last Interglacial Revealed by Subannual Clumped Isotope Analysis. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA004145.	2.9	3
2	Groundwater sources in the Island of Maui, Hawaii â€" A combined noble gas, stable isotope, and tritium approach. Applied Geochemistry, 2020, 117, 104587.	3.0	4
3	Effects of Improved ¹⁷O Correction on Interlaboratory Agreement in Clumped Isotope Calibrations, Estimates of Mineralâ€Specific Offsets, and Temperature Dependence of Acid Digestion Fractionation. Geochemistry, Geophysics, Geosystems, 2019, 20, 3495-3519.	2.5	134
4	Biogenic carbonate mercury and marine temperature records reveal global influence of Late Cretaceous Deccan Traps. Nature Communications, 2019, 10, 5356.	12.8	21
5	Climate of the Late Cretaceous North American Gulf and Atlantic Coasts. Cretaceous Research, 2018, 89, 160-173.	1.4	16
6	Meltwater pulse recorded in Last Interglacial mollusk shells from Bermuda. Paleoceanography, 2017, 32, 132-145.	3.0	9
7	Constraining groundwater flow in the glacial drift and saginaw aquifers in the Michigan Basin through helium concentrations and isotopic ratios. Geofluids, 2016, 16, 3-25.	0.7	12
8	The effects of Porapakâ„¢ trap temperature on Î´¹⁸O, Î´¹³C, and Î”₄₇ values in preparing samples for clumped isotope analysis. Rapid Communications in Mass Spectrometry, 2016, 30, 199-208.	1.5	25
9	Shallow burial alteration of dolomite and limestone clumped isotope geochemistry. Geology, 2016, 44, 467-470.	4.4	60
10	Calibration of dolomite clumped isotope thermometry. Chemical Geology, 2016, 443, 32-38.	3.3	29
11	End-Cretaceous extinction in Antarctica linked to both Deccan volcanism and meteorite impact via climate change. Nature Communications, 2016, 7, 12079.	12.8	167
12	Temperature and salinity of the Late Cretaceous Western Interior Seaway. Geology, 2016, 44, 903-906.	4.4	62
13	Evaluation of meteoric calcite cements as a proxy material for mass-47 clumped isotope thermometry. Geochimica Et Cosmochimica Acta, 2016, 173, 126-141.	3.9	25
14	Diagenetic incorporation of Sr into aragonitic bivalve shells: implications for chronostratigraphic and palaeoenvironmental interpretations. Depositional Record, 2015, 1, 38-52.	1.7	18
15	Nonâ€linear mixing effects on massâ€47 CO₂ clumped isotope thermometry: Patterns and implications. Rapid Communications in Mass Spectrometry, 2015, 29, 901-909.	1.5	67
16	Compositional and temperature effects of phosphoric acid fractionation on Î”47 analysis and implications for discrepant calibrations. Chemical Geology, 2015, 396, 51-60.	3.3	161
17	Assessing compositional variability and migration of natural gas in the Antrim Shale in the Michigan Basin using noble gas geochemistry. Chemical Geology, 2015, 417, 356-370.	3.3	33
18	Isotopic and Elemental Evidence For Meteoric Alteration of A Pennsylvanian Phylloid-Algal Mound, Holder Formation, New Mexico, U.S.A. Journal of Sedimentary Research, 2014, 85, 21-37.	1.6	3

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19	Large atmospheric noble gas excesses in a shallow aquifer in the Michigan Basin as indicators of a past mantle thermal event. Earth and Planetary Science Letters, 2013, 375, 372-382.	4.4	7
20	Terrestrial cooling in Northern Europe during the Eoceneâ€“Oligocene transition. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7562-7567.	7.1	102
21	Comparative Paleoclimatic Interpretations from Nonmarine Ostracodes Using Faunal Assemblages, Trace Elements Shell Chemistry and Stable Isotope Data. Geophysical Monograph Series, 2013, , 179-190.	0.1	15
22	Noble gas composition in rainwater and associated weather patterns. Geophysical Research Letters, 2013, 40, 3248-3252.	4.0	8
23	Paleoelevation estimates for the northern and central protoâ€“Basin and Range from carbonate clumped isotope thermometry. Tectonics, 2013, 32, 295-316.	2.8	49
24	Testing the noble gas paleothermometer with a yearlong study of groundwater noble gases in an instrumented monitoring well. Water Resources Research, 2012, 48, .	4.2	21
25	End-Cretaceous marine mass extinction not caused by productivity collapse. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 728-732.	7.1	133
26	A late Pleistoceneâ€“Midâ€Holocene noble gas and stable isotope climate and subglacial record in southern Michigan. Geophysical Research Letters, 2012, 39, .	4.0	11
27	RECONSTRUCTING PALEOCATCHMENTS BY INTEGRATING STABLE ISOTOPE RECORDS, SEDIMENTOLOGY, AND TAPHONOMY: A LATE CRETACEOUS CASE STUDY (MONTANA, UNITED STATES). Palaios, 2011, 26, 545-554.	1.3	12
28	Continental warming preceding the Palaeoceneâ€“Eocene thermal maximum. Nature, 2010, 467, 955-958.	27.8	78
29	Application of calcite Mg partitioning functions to the reconstruction of paleocean Mg/Ca. Geochimica Et Cosmochimica Acta, 2010, 74, 6751-6763.	3.9	68
30	Mississippian Paleocean Chemistry from Biotic and Abiotic Carbonate, Muleshoe Mound, Lake Valley Formation, New Mexico, U.S.A.--Reply. Journal of Sedimentary Research, 2009, 79, 42-43.	1.6	1
31	Chronostratigraphic and paleoenvironmental constraints derived from the 87Sr/86Sr and Î´18O signal of Miocene bivalves, Southern McMurdo Sound, Antarctica. Global and Planetary Change, 2009, 69, 124-132.	3.5	14
32	Mississippian Paleocean Chemistry from Biotic and Abiotic Carbonate, Muleshoe Mound, Lake Valley Formation, New Mexico, U.S.A.. Journal of Sedimentary Research, 2008, 78, 147-164.	1.6	16
33	Evaluating Mg/Ca ratios as a temperature proxy in the estuarine oyster, Crassostrea virginica. Journal of Geophysical Research, 2008, 113, .	3.3	38
34	Excess air in the noble gas groundwater paleothermometer: A new model based on diffusion in the gas phase. Geophysical Research Letters, 2008, 35, .	4.0	13
35	Eocene climate record of a high southern latitude continental shelf: Seymour Island, Antarctica. Bulletin of the Geological Society of America, 2008, 120, 659-678.	3.3	141
36	HIGH-RESOLUTION STABLE ISOTOPE PROFILES OF A DIMITOBELID BELEMNITE: IMPLICATIONS FOR PALEODEPTH HABITAT AND LATE MAASTRICHTIAN CLIMATE SEASONALITY. Palaios, 2007, 22, 642-650.	1.3	66

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37	Reply to comment by Klump et al. on â€œNoble gases and stable isotopes in a shallow aquifer in southern Michigan: Implications for noble gas paleotemperature reconstructions for cool climatesâ€• Geophysical Research Letters, 2006, 33, .	4.0	5
38	Micro-Sized Dolomite Inclusions in Ferroan Calcite Cements Developed During Burial Diagenesis of Kimmeridgian Reefs, Northern Iberian Basin, Spain. Journal of Sedimentary Research, 2006, 76, 472-482.	1.6	8
39	Spatial distribution and seasonal variation in18O/16O of modern precipitation and river water across the conterminous USA. Hydrological Processes, 2005, 19, 4121-4146.	2.6	273
40	Late Jurassic Paleogeography and Paleoclimate in the Northern Iberian Basin of Spain: Constraints from Diagenetic Records in Reefal and Continental Carbonates. Journal of Sedimentary Research, 2005, 75, 82-96.	1.6	14
41	Insights from the Paleogene tropical Pacific: Foraminiferal stable isotope and elemental results from Site 1209, Shatsky Rise. Paleoceanography, 2005, 20, n/a-n/a.	3.0	36
42	Noble gases and stable isotopes in a shallow aquifer in southern Michigan: Implications for noble gas paleotemperature reconstructions for cool climates. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	42
43	Composition of the early Oligocene ocean from coral stable isotope and elemental chemistry. Geobiology, 2004, 2, 97-106.	2.4	13
44	Intra-Annual Isotopic Variation in Venericardia Bivalves: Implications for Early Eocene Temperature, Seasonality, and Salinity on the U.S. Gulf Coast. Journal of Sedimentary Research, 2004, 74, 7-19.	1.6	49
45	Reconstructing estuarine conditions: oyster shells as recorders of environmental change, Southwest Florida. Estuarine, Coastal and Shelf Science, 2003, 57, 737-756.	2.1	78
46	Stable isotope and minor element proxies for Eocene climate of Seymour Island, Antarctica. Paleoceanography, 2002, 17, 6-1-6-13.	3.0	95
47	Temporal and spatial differences in salinity and water chemistry in SW Florida estuaries: Effects of human-impacted watersheds. Estuaries and Coasts, 2002, 25, 393-408.	1.7	76
48	Sr/Mg variation during rock-water interaction: implications for secular changes in the elemental chemistry of ancient seawater. Geochimica Et Cosmochimica Acta, 2001, 65, 741-761.	3.9	31
49	Controls on isotopic chemistry of the American oyster, Crassostrea virginica : implications for growth patterns. Palaeogeography, Palaeoclimatology, Palaeoecology, 2001, 172, 283-296.	2.3	151
50	Discrimination of Multiple Episodes of Meteoric Diagenesis in a Kimmeridgian Reefal Complex, North Iberian Range, Spain. Journal of Sedimentary Research, 2001, 71, 380-393.	1.6	18
51	Earliest Carboniferous cooling step triggered by the Antler orogeny?. Geology, 2000, 28, 347.	4.4	57
52	Cooler winters as a possible cause of mass extinctions at the Eocene/Oligocene boundary. Nature, 2000, 407, 887-890.	27.8	249
53	Benthic foraminifera associated with cold methane seeps on the northern California margin: Ecology and stable isotopic composition. Marine Micropaleontology, 2000, 38, 247-266.	1.2	157
54	Oxygen isotope evidence for high-altitude snow in the Laramide Rocky Mountains of North America during the Late Cretaceous and Paleogene. Geology, 2000, 28, 243.	4.4	119

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55	A global carbon isotope excursion (SPICE) during the Late Cambrian: relation to trilobite extinctions, organic-matter burial and sea level. Palaeogeography, Palaeoclimatology, Palaeoecology, 2000, 162, 211-223.	2.3	232
56	High southern latitude paleotemperatures recorded by Paleogene bivalves. Gff, 2000, 122, 43-43.	1.2	0
57	Incorporation and preservation of Mg inGlobigerinoides sacculifer:implications for reconstructing the temperature and18O/16O of seawater. Paleoceanography, 2000, 15, 135-145.	3.0	206
58	Oxygen isotope evidence for high-altitude snow in the Laramide Rocky Mountains of North America during the Late Cretaceous and Paleogene. Geology, 2000, 28, 243-246.	4.4	6
59	Earliest Carboniferous cooling step triggered by the Antler orogeny?. Geology, 2000, 28, 347-350.	4.4	8
60	TWO MILLENNIA OF EL NINO EVENTS POTENTIALLY ARCHIVED IN SCLEROSPONGES. Environmental Geosciences, 1999, 6, 152-153.	0.6	0
61	Controls on the stable isotope composition of seasonal growth bands in aragonitic fresh-water bivalves (unionidae). Geochimica Et Cosmochimica Acta, 1999, 63, 1049-1057.	3.9	294
62	Reply to the comment by S. T. Petsch on carbon isotope ratios of Phanerozoic marine cements: re-evaluating global carbon and sulfur systems. Geochimica Et Cosmochimica Acta, 1999, 63, 761-766.	3.9	11
63	Carbon isotope stratigraphy of Upper Cambrian (Steptoean Stage) sequences of the eastern Great Basin: Record of a global oceanographic event. Bulletin of the Geological Society of America, 1998, 110, 285-297.	3.3	159
64	Carbon isotopic evidence for photosynthesis in Early Cambrian oceans: Comment and Reply. Geology, 1998, 26, 191.	4.4	2
65	Elemental and isotopic proxies of paleotemperature and paleosalinity: Climate reconstruction of the marginal northeast Pacific ca. 80 ka. Geology, 1997, 25, 363.	4.4	31
66	Carbon isotopic evidence for photosynthesis in Early Cambrian oceans. Geology, 1997, 25, 503.	4.4	29
67	Carbon isotope ratios of Phanerozoic marine cements: Re-evaluating the global carbon and sulfur systems. Geochimica Et Cosmochimica Acta, 1997, 61, 4831-4846.	3.9	55
68	Isotopic evidence for the paleoenvironmental evolution of the Mesoproterozoic Helena Formation, Belt Supergroup, Montana, USA. Geochimica Et Cosmochimica Acta, 1997, 61, 5023-5041.	3.9	65
69	Diagenesis of fibrous magnesian calcite marine cement: Implications for the interpretation of Î´18O and Î´13C values of ancient equivalents. Geochimica Et Cosmochimica Acta, 1996, 60, 2427-2436.	3.9	40
70	and ratios in skeletal calcite of Mytilus trossulus: Covariation with metabolic rate, salinity, and carbon isotopic composition of seawater. Geochimica Et Cosmochimica Acta, 1996, 60, 4207-4221.	3.9	255
71	Comparisons of the ecology and stable isotopic compositions of living (stained) benthic foraminifera from the Sulu and South China Seas. Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 1617-1646.	1.4	115
72	Isotopic homogeneity among nonequivalent sectors of calcite: Comment and Reply. Geology, 1996, 24, 95.	4.4	4

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73	Title is missing!. Journal of Paleolimnology, 1996, 17, 421-435.	1.6	24
74	Chronostratigraphic significance of cathodoluminescence zoning in syntaxial cement: Mississippian Lake Valley Formation, New Mexico. Sedimentary Geology, 1996, 105, 29-50.	2.1	22
75	Climatic control of fluvial-lacustrine cyclicity in the Cretaceous Cordilleran Foreland Basin, western United States. Sedimentology, 1996, 43, 677-689.	3.1	27
76	Bivalve skeletons record sea-surface temperature and Î´18O via Mg/Ca and 18O/16O ratios. Geology, 1996, 24, 415.	4.4	216
77	Isotopic homogeneity among nonequivalent sectors of calcite. Geology, 1995, 23, 633.	4.4	7
78	Vendian glaciations and their relation to the dispersal of Rodinia: Paleomagnetic constraints. Geology, 1995, 23, 727.	4.4	40
79	Microsampling carbonates for stable isotope and minor element analysis; physical separation of samples on a 20 micrometer scale. Journal of Sedimentary Research, 1995, 65, 566-569.	1.6	101
80	Glacial Meltwater in Lake Huron during Early Postglacial Time as Inferred from Single-Valve Analysis of Oxygen Isotopes in Ostracodes. Quaternary Research, 1995, 43, 297-310.	1.7	63
81	Sea-level-driven changes in ocean chemistry at an Upper Cambrian extinction horizon. Geology, 1995, 23, 893.	4.4	55
82	The impact of diagenesis on high-precision UPb dating of ancient carbonates: An example from the Late Permian of New Mexico. Earth and Planetary Science Letters, 1995, 134, 409-423.	4.4	47
83	Î´18O and Î´13C values of modern brachiopod shells. Geochimica Et Cosmochimica Acta, 1995, 59, 3749-3764.	3.9	215
84	Lower Ordovician reversal asymmetry: An artifact of remagnetization or nondipole field disturbance?. Journal of Geophysical Research, 1995, 100, 17885-17898.	3.3	20
85	Late Paleocene to Eocene paleoceanography of the equatorial Pacific Ocean: Stable isotopes recorded at Ocean Drilling Program Site 865, Allison Guyot. Paleoceanography, 1995, 10, 841-865.	3.0	205
86	The role of early lithification in development of chalky porosity in calcitic micrites: Upper Cretaceous chalks, Egypt. Sedimentary Geology, 1994, 88, 193-200.	2.1	8
87	Evolution of Early Cenozoic marine temperatures. Paleoceanography, 1994, 9, 353-387.	3.0	652
88	Rock-dominated diagenesis of lacustrine magnesian calcite micrite. Carbonates and Evaporites, 1993, 8, 213-223.	1.0	6
89	Effect of regional topography and hydrology on the lacustrine isotopic record of Miocene paleoclimate in the Rocky Mountains. Palaeogeography, Palaeoclimatology, Palaeoecology, 1993, 101, 67-79.	2.3	43
90	Abrupt Climate Change and Transient Climates during the Paleogene: A Marine Perspective. Journal of Geology, 1993, 101, 191-213.	1.4	437

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91	Late Paleozoic Remagnetization and Its Carrier in the Trenton and Black River Carbonates from the Michigan Basin. Journal of Geology, 1993, 101, 795-808.	1.4	14
92	Stable oxygen isotopic composition: Use in determining ages of Bahama escarpment deep-marine calcite spars and implications for timing of erosion. Geology, 1992, 20, 323.	4.4	1
93	ratios of modern marine calcite: Empirical indicators of ocean chemistry and precipitation rate. Geochimica Et Cosmochimica Acta, 1992, 56, 1837-1849.	3.9	217
94	Pliocene and Pleistocene geologic and climatic evolution in the San Luis Valley of south-central Colorado. Palaeogeography, Palaeoclimatology, Palaeoecology, 1992, 94, 55-86.	2.3	35
95	Sr Isotopic Variation in Shallow Water Carbonate Sequences: Stratigraphic, Chronostratigraphic, and Eustatic Implications of the Record at Enewetak Atoll. Paleoceanography, 1991, 6, 371-385.	3.0	37
96	Stable isotopes of carbon dioxide in soil gas over massive sulfide mineralization at Crandon, Wisconsin. Journal of Geochemical Exploration, 1990, 38, 69-86.	3.2	14
97	The Î´¹⁸O record of phanerozoic abiotic marine calcite cements. Geophysical Research Letters, 1989, 16, 319-322.	4.0	137
98	Why the oxygen isotopic composition of sea water changes with time. Geophysical Research Letters, 1989, 16, 323-326.	4.0	65
99	delta 18 and delta 13 C variations in Late Devonian marine cements from the Golden Spike and Nevis reefs, Alberta, Canada. Journal of Sedimentary Research, 1989, 59, 792-814.	1.6	53
100	Geochemical Patterns of Meteoric Diagenetic Systems and Their Application to Studies of Paleokarst. , 1988, , 58-80.		301
101	Controls on Mineralogy and Composition of Spelean Carbonates: Carlsbad Caverns, New Mexico. , 1988, , 81-101.		34
102	Ground preparation and zinc mineralization in bedded and breccia ores of the Monte Cristo Mine, North Arkansas. Economic Geology, 1986, 81, 809-830.	3.8	17
103	Carbon and oxygen isotopic composition of Holocene reefal carbonates. Geology, 1985, 13, 811.	4.4	87
104	ISOTOPE GEOCHEMISTRY OF REGIONALLY EXTENSIVE CALCITE CEMENT ZONES AND MARINE COMPONENTS IN MISSISSIPPIAN LIMESTONES, NEW MEXICO. , 1985, , 223-239.		92
105	Closed-system marine burial diagenesis: isotopic data from the Austin Chalk and its components. Sedimentology, 1984, 31, 863-877.	3.1	70
106	Late Miocene palaeo-oceanography of the Atlantic: oxygen isotope data on planktonic and benthic Foraminifera. Nature, 1980, 283, 555-557.	27.8	21
107	Stable Carbon and Oxygen Isotopes in Soil Carbonates. Geophysical Monograph Series, 0, , 217-231.	0.1	234
108	Isotopic Patterns in Modern Global Precipitation. Geophysical Monograph Series, 0, , 1-36.	0.1	1,208

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109	Continental Paleothermometry and Seasonality Using the Isotopic Composition of Aragonitic Otoliths of Freshwater Fishes. Geophysical Monograph Series, 0, , 191-202.	0.1	112
110	Principles and Applications of the Noble Gas Paleothermometer. Geophysical Monograph Series, 0, , 89-100.	0.1	74