

Kyger C Lohmann

List of Publications by Year in descending order

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110
papers

9,641
citations

50276

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85
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111
all docs

111
docs citations

111
times ranked

7156
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotopic Patterns in Modern Global Precipitation. Geophysical Monograph Series, 0, , 1-36.	0.1	1,208
2	Evolution of Early Cenozoic marine temperatures. Paleoceanography, 1994, 9, 353-387.	3.0	652
3	Abrupt Climate Change and Transient Climates during the Paleogene: A Marine Perspective. Journal of Geology, 1993, 101, 191-213.	1.4	437
4	Geochemical Patterns of Meteoric Diagenetic Systems and Their Application to Studies of Paleokarst. , 1988, , 58-80.		301
5	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
6	Spatial distribution and seasonal variation in $^{18}\text{O}/^{16}\text{O}$ of modern precipitation and river water across the conterminous USA. Hydrological Processes, 2005, 19, 4121-4146.	2.6	273
7	and ratios in skeletal calcite of <i>Mytilus trossulus</i> : Covariation with metabolic rate, salinity, and carbon isotopic composition of seawater. Geochimica Et Cosmochimica Acta, 1996, 60, 4207-4221.	3.9	255
8	Cooler winters as a possible cause of mass extinctions at the Eocene/Oligocene boundary. Nature, 2000, 407, 887-890.	27.8	249
9	Stable Carbon and Oxygen Isotopes in Soil Carbonates. Geophysical Monograph Series, 0, , 217-231.	0.1	234
10	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
11	ratios of modern marine calcite: Empirical indicators of ocean chemistry and precipitation rate. Geochimica Et Cosmochimica Acta, 1992, 56, 1837-1849.	3.9	217
12	Bivalve skeletons record sea-surface temperature and $\delta^{18}\text{O}$ via Mg/Ca and $^{18}\text{O}/^{16}\text{O}$ ratios. Geology, 1996, 24, 415.	4.4	216
13	$\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ values of modern brachiopod shells. Geochimica Et Cosmochimica Acta, 1995, 59, 3749-3764.	3.9	215
14	Incorporation and preservation of Mg in <i>Globigerinoides sacculifer</i> : implications for reconstructing the temperature and $^{18}\text{O}/^{16}\text{O}$ of seawater. Paleoceanography, 2000, 15, 135-145.	3.0	206
15	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
16	End-Cretaceous extinction in Antarctica linked to both Deccan volcanism and meteorite impact via climate change. Nature Communications, 2016, 7, 12079.	12.8	167
17	Compositional and temperature effects of phosphoric acid fractionation on $\delta^{47}\text{Ti}$ analysis and implications for discrepant calibrations. Chemical Geology, 2015, 396, 51-60.	3.3	161
18	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

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19	Benthic foraminifera associated with cold methane seeps on the northern California margin: Ecology and stable isotopic composition. <i>Marine Micropaleontology</i> , 2000, 38, 247-266.	1.2	157
20	Controls on isotopic chemistry of the American oyster, <i>Crassostrea virginica</i> : implications for growth patterns. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2001, 172, 283-296.	2.3	151
21	Eocene climate record of a high southern latitude continental shelf: Seymour Island, Antarctica. <i>Bulletin of the Geological Society of America</i> , 2008, 120, 659-678.	3.3	141
22	The $\delta^{18}\text{O}$ record of Phanerozoic abiogenic marine calcite cements. <i>Geophysical Research Letters</i> , 1989, 16, 319-322.	4.0	137
23	Effects of Improved $\delta^{17}\text{O}$ Correction on Interlaboratory Agreement in Clumped Isotope Calibrations, Estimates of Mineral-Specific Offsets, and Temperature Dependence of Acid Digestion Fractionation. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3495-3519.	2.5	134
24	End-Cretaceous marine mass extinction not caused by productivity collapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 728-732.	7.1	133
25	Oxygen isotope evidence for high-altitude snow in the Laramide Rocky Mountains of North America during the Late Cretaceous and Paleogene. <i>Geology</i> , 2000, 28, 243.	4.4	119
26	Comparisons of the ecology and stable isotopic compositions of living (stained) benthic foraminifera from the Sulu and South China Seas. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1996, 43, 1617-1646.	1.4	115
27	Continental Paleothermometry and Seasonality Using the Isotopic Composition of Aragonitic Otoliths of Freshwater Fishes. <i>Geophysical Monograph Series</i> , 0, , 191-202.	0.1	112
28	Terrestrial cooling in Northern Europe during the Eocene-Oligocene transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7562-7567.	7.1	102
29	Microsampling carbonates for stable isotope and minor element analysis; physical separation of samples on a 20 micrometer scale. <i>Journal of Sedimentary Research</i> , 1995, 65, 566-569.	1.6	101
30	Stable isotope and minor element proxies for Eocene climate of Seymour Island, Antarctica. <i>Paleoceanography</i> , 2002, 17, 6-16-13.	3.0	95
31	ISOTOPE GEOCHEMISTRY OF REGIONALLY EXTENSIVE CALCITE CEMENT ZONES AND MARINE COMPONENTS IN MISSISSIPPIAN LIMESTONES, NEW MEXICO. , 1985, , 223-239.		92
32	Carbon and oxygen isotopic composition of Holocene reefal carbonates. <i>Geology</i> , 1985, 13, 811.	4.4	87
33	Reconstructing estuarine conditions: oyster shells as recorders of environmental change, Southwest Florida. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 57, 737-756.	2.1	78
34	Continental warming preceding the Palaeocene-Eocene thermal maximum. <i>Nature</i> , 2010, 467, 955-958.	27.8	78
35	Temporal and spatial differences in salinity and water chemistry in SW Florida estuaries: Effects of human-impacted watersheds. <i>Estuaries and Coasts</i> , 2002, 25, 393-408.	1.7	76
36	Principles and Applications of the Noble Gas Paleothermometer. <i>Geophysical Monograph Series</i> , 0, , 89-100.	0.1	74

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37	Closed-system marine burial diagenesis: isotopic data from the Austin Chalk and its components. <i>Sedimentology</i> , 1984, 31, 863-877.	3.1	70
38	Application of calcite Mg partitioning functions to the reconstruction of paleocean Mg/Ca. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6751-6763.	3.9	68
39	Non-linear mixing effects on mass ⁴⁷ CO ₂ clumped isotope thermometry: Patterns and implications. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 901-909.	1.5	67
40	HIGH-RESOLUTION STABLE ISOTOPE PROFILES OF A DIMITOBELED BELEMNITE: IMPLICATIONS FOR PALEODEPTH HABITAT AND LATE MAASTRICHTIAN CLIMATE SEASONALITY. <i>Palaios</i> , 2007, 22, 642-650.	1.3	66
41	Why the oxygen isotopic composition of sea water changes with time. <i>Geophysical Research Letters</i> , 1989, 16, 323-326.	4.0	65
42	Isotopic evidence for the paleoenvironmental evolution of the Mesoproterozoic Helena Formation, Belt Supergroup, Montana, USA. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 5023-5041.	3.9	65
43	Glacial Meltwater in Lake Huron during Early Postglacial Time as Inferred from Single-Valve Analysis of Oxygen Isotopes in Ostracodes. <i>Quaternary Research</i> , 1995, 43, 297-310.	1.7	63
44	Temperature and salinity of the Late Cretaceous Western Interior Seaway. <i>Geology</i> , 2016, 44, 903-906.	4.4	62
45	Shallow burial alteration of dolomite and limestone clumped isotope geochemistry. <i>Geology</i> , 2016, 44, 467-470.	4.4	60
46	Earliest Carboniferous cooling step triggered by the Antler orogeny?. <i>Geology</i> , 2000, 28, 347.	4.4	57
47	Sea-level-driven changes in ocean chemistry at an Upper Cambrian extinction horizon. <i>Geology</i> , 1995, 23, 893.	4.4	55
48	Carbon isotope ratios of Phanerozoic marine cements: Re-evaluating the global carbon and sulfur systems. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4831-4846.	3.9	55
49	delta 18 and delta 13 C variations in Late Devonian marine cements from the Golden Spike and Nevis reefs, Alberta, Canada. <i>Journal of Sedimentary Research</i> , 1989, 59, 792-814.	1.6	53
50	Intra-Annual Isotopic Variation in Venericardia Bivalves: Implications for Early Eocene Temperature, Seasonality, and Salinity on the U.S. Gulf Coast. <i>Journal of Sedimentary Research</i> , 2004, 74, 7-19.	1.6	49
51	Paleoelevation estimates for the northern and central proto-Basin and Range from carbonate clumped isotope thermometry. <i>Tectonics</i> , 2013, 32, 295-316.	2.8	49
52	The impact of diagenesis on high-precision UPb dating of ancient carbonates: An example from the Late Permian of New Mexico. <i>Earth and Planetary Science Letters</i> , 1995, 134, 409-423.	4.4	47
53	Effect of regional topography and hydrology on the lacustrine isotopic record of Miocene paleoclimate in the Rocky Mountains. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1993, 101, 67-79.	2.3	43
54	Noble gases and stable isotopes in a shallow aquifer in southern Michigan: Implications for noble gas paleotemperature reconstructions for cool climates. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	42

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55	Vendian glaciations and their relation to the dispersal of Rodinia: Paleomagnetic constraints. <i>Geology</i> , 1995, 23, 727.	4.4	40
56	Diagenesis of fibrous magnesian calcite marine cement: Implications for the interpretation of $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ values of ancient equivalents. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 2427-2436.	3.9	40
57	Evaluating Mg/Ca ratios as a temperature proxy in the estuarine oyster, <i>Crassostrea virginica</i> . <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	38
58	Sr Isotopic Variation in Shallow Water Carbonate Sequences: Stratigraphic, Chronostratigraphic, and Eustatic Implications of the Record at Enewetak Atoll. <i>Paleoceanography</i> , 1991, 6, 371-385.	3.0	37
59	Insights from the Paleogene tropical Pacific: Foraminiferal stable isotope and elemental results from Site 1209, Shatsky Rise. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	36
60	Pliocene and Pleistocene geologic and climatic evolution in the San Luis Valley of south-central Colorado. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1992, 94, 55-86.	2.3	35
61	Controls on Mineralogy and Composition of Spelean Carbonates: Carlsbad Caverns, New Mexico. , 1988, , 81-101.		34
62	Assessing compositional variability and migration of natural gas in the Antrim Shale in the Michigan Basin using noble gas geochemistry. <i>Chemical Geology</i> , 2015, 417, 356-370.	3.3	33
63	Elemental and isotopic proxies of paleotemperature and paleosalinity: Climate reconstruction of the marginal northeast Pacific ca. 80 ka. <i>Geology</i> , 1997, 25, 363.	4.4	31
64	Sr/Mg variation during rock-water interaction: implications for secular changes in the elemental chemistry of ancient seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 741-761.	3.9	31
65	Carbon isotopic evidence for photosynthesis in Early Cambrian oceans. <i>Geology</i> , 1997, 25, 503.	4.4	29
66	Calibration of dolomite clumped isotope thermometry. <i>Chemical Geology</i> , 2016, 443, 32-38.	3.3	29
67	Climatic control of fluvial-lacustrine cyclicity in the Cretaceous Cordilleran Foreland Basin, western United States. <i>Sedimentology</i> , 1996, 43, 677-689.	3.1	27
68	The effects of Porapak [®] trap temperature on $\delta^{18}\text{O}$, $\delta^{13}\text{C}$, and $\delta^{47}\text{Ar}$ values in preparing samples for clumped isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 199-208.	1.5	25
69	Evaluation of meteoric calcite cements as a proxy material for mass-47 clumped isotope thermometry. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 173, 126-141.	3.9	25
70	Title is missing!. <i>Journal of Paleolimnology</i> , 1996, 17, 421-435.	1.6	24
71	Chronostratigraphic significance of cathodoluminescence zoning in syntaxial cement: Mississippian Lake Valley Formation, New Mexico. <i>Sedimentary Geology</i> , 1996, 105, 29-50.	2.1	22
72	Late Miocene palaeo-oceanography of the Atlantic: oxygen isotope data on planktonic and benthic Foraminifera. <i>Nature</i> , 1980, 283, 555-557.	27.8	21

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73	Testing the noble gas paleothermometer with a yearlong study of groundwater noble gases in an instrumented monitoring well. <i>Water Resources Research</i> , 2012, 48, .	4.2	21
74	Biogenic carbonate mercury and marine temperature records reveal global influence of Late Cretaceous Deccan Traps. <i>Nature Communications</i> , 2019, 10, 5356.	12.8	21
75	Lower Ordovician reversal asymmetry: An artifact of remagnetization or nondipole field disturbance?. <i>Journal of Geophysical Research</i> , 1995, 100, 17885-17898.	3.3	20
76	Discrimination of Multiple Episodes of Meteoric Diagenesis in a Kimmeridgian Reefal Complex, North Iberian Range, Spain. <i>Journal of Sedimentary Research</i> , 2001, 71, 380-393.	1.6	18
77	Diagenetic incorporation of Sr into aragonitic bivalve shells: implications for chronostratigraphic and palaeoenvironmental interpretations. <i>Depositional Record</i> , 2015, 1, 38-52.	1.7	18
78	Ground preparation and zinc mineralization in bedded and breccia ores of the Monte Cristo Mine, North Arkansas. <i>Economic Geology</i> , 1986, 81, 809-830.	3.8	17
79	Mississippian Paleoccean Chemistry from Biotic and Abiotic Carbonate, Muleshoe Mound, Lake Valley Formation, New Mexico, U.S.A.. <i>Journal of Sedimentary Research</i> , 2008, 78, 147-164.	1.6	16
80	Climate of the Late Cretaceous North American Gulf and Atlantic Coasts. <i>Cretaceous Research</i> , 2018, 89, 160-173.	1.4	16
81	Comparative Paleoclimatic Interpretations from Nonmarine Ostracodes Using Faunal Assemblages, Trace Elements Shell Chemistry and Stable Isotope Data. <i>Geophysical Monograph Series</i> , 2013, , 179-190.	0.1	15
82	Stable isotopes of carbon dioxide in soil gas over massive sulfide mineralization at Crandon, Wisconsin. <i>Journal of Geochemical Exploration</i> , 1990, 38, 69-86.	3.2	14
83	Late Jurassic Paleogeography and Paleoclimate in the Northern Iberian Basin of Spain: Constraints from Diagenetic Records in Reefal and Continental Carbonates. <i>Journal of Sedimentary Research</i> , 2005, 75, 82-96.	1.6	14
84	Chronostratigraphic and paleoenvironmental constraints derived from the $^{87}\text{Sr}/^{86}\text{Sr}$ and $\delta^{18}\text{O}$ signal of Miocene bivalves, Southern McMurdo Sound, Antarctica. <i>Global and Planetary Change</i> , 2009, 69, 124-132.	3.5	14
85	Late Paleozoic Remagnetization and Its Carrier in the Trenton and Black River Carbonates from the Michigan Basin. <i>Journal of Geology</i> , 1993, 101, 795-808.	1.4	14
86	Composition of the early Oligocene ocean from coral stable isotope and elemental chemistry. <i>Geobiology</i> , 2004, 2, 97-106.	2.4	13
87	Excess air in the noble gas groundwater paleothermometer: A new model based on diffusion in the gas phase. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	13
88	RECONSTRUCTING PALEOCATCHMENTS BY INTEGRATING STABLE ISOTOPE RECORDS, SEDIMENTOLOGY, AND TAPHONOMY: A LATE CRETACEOUS CASE STUDY (MONTANA, UNITED STATES). <i>Palaios</i> , 2011, 26, 545-554.	1.3	12
89	Constraining groundwater flow in the glacial drift and saginaw aquifers in the Michigan Basin through helium concentrations and isotopic ratios. <i>Geofluids</i> , 2016, 16, 3-25.	0.7	12
90	Reply to the comment by S. T. Petsch on carbon isotope ratios of Phanerozoic marine cements: re-evaluating global carbon and sulfur systems. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 761-766.	3.9	11

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91	A late Pleistocene–Holocene noble gas and stable isotope climate and subglacial record in southern Michigan. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	11
92	Meltwater pulse recorded in Last Interglacial mollusk shells from Bermuda. <i>Paleoceanography</i> , 2017, 32, 132-145.	3.0	9
93	The role of early lithification in development of chalky porosity in calcitic micrites: Upper Cretaceous chalks, Egypt. <i>Sedimentary Geology</i> , 1994, 88, 193-200.	2.1	8
94	Micro-Sized Dolomite Inclusions in Ferroan Calcite Cements Developed During Burial Diagenesis of Kimmeridgian Reefs, Northern Iberian Basin, Spain. <i>Journal of Sedimentary Research</i> , 2006, 76, 472-482.	1.6	8
95	Noble gas composition in rainwater and associated weather patterns. <i>Geophysical Research Letters</i> , 2013, 40, 3248-3252.	4.0	8
96	Earliest Carboniferous cooling step triggered by the Antler orogeny?. <i>Geology</i> , 2000, 28, 347-350.	4.4	8
97	Isotopic homogeneity among nonequivalent sectors of calcite. <i>Geology</i> , 1995, 23, 633.	4.4	7
98	Large atmospheric noble gas excesses in a shallow aquifer in the Michigan Basin as indicators of a past mantle thermal event. <i>Earth and Planetary Science Letters</i> , 2013, 375, 372-382.	4.4	7
99	Rock-dominated diagenesis of lacustrine magnesian calcite micrite. <i>Carbonates and Evaporites</i> , 1993, 8, 213-223.	1.0	6
100	Oxygen isotope evidence for high-altitude snow in the Laramide Rocky Mountains of North America during the Late Cretaceous and Paleogene. <i>Geology</i> , 2000, 28, 243-246.	4.4	6
101	Reply to comment by Klump et al. on “Noble gases and stable isotopes in a shallow aquifer in southern Michigan: Implications for noble gas paleotemperature reconstructions for cool climates”: <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	5
102	Isotopic homogeneity among nonequivalent sectors of calcite: Comment and Reply. <i>Geology</i> , 1996, 24, 95.	4.4	4
103	Groundwater sources in the Island of Maui, Hawaii – A combined noble gas, stable isotope, and tritium approach. <i>Applied Geochemistry</i> , 2020, 117, 104587.	3.0	4
104	Isotopic and Elemental Evidence For Meteoric Alteration of A Pennsylvanian Phylloid-Algal Mound, Holder Formation, New Mexico, U.S.A. <i>Journal of Sedimentary Research</i> , 2014, 85, 21-37.	1.6	3
105	Seasonally Variable Aquifer Discharge and Cooler Climate in Bermuda During the Last Interglacial Revealed by Subannual Clumped Isotope Analysis. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004145.	2.9	3
106	Carbon isotopic evidence for photosynthesis in Early Cambrian oceans: Comment and Reply. <i>Geology</i> , 1998, 26, 191.	4.4	2
107	Stable oxygen isotopic composition: Use in determining ages of Bahama escarpment deep-marine calcite spars and implications for timing of erosion. <i>Geology</i> , 1992, 20, 323.	4.4	1
108	Mississippian Paleocean Chemistry from Biotic and Abiotic Carbonate, Muleshoe Mound, Lake Valley Formation, New Mexico, U.S.A.–Reply. <i>Journal of Sedimentary Research</i> , 2009, 79, 42-43.	1.6	1

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109	TWO MILLENNIA OF EL NINO EVENTS POTENTIALLY ARCHIVED IN SCLEROSPONGES. Environmental Geosciences, 1999, 6, 152-153.	0.6	0
110	High southern latitude paleotemperatures recorded by Paleogene bivalves. Gff, 2000, 122, 43-43.	1.2	0