Alan Jay Kaufman

List of Publications by Year
in descending order

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Version: 2024-02-01

112 papers	14,631 citations	58 h-index	111 g-index
114 all docs	114 docs citations	114 times ranked	6084 citing authors

#	Article	IF	Citations
1	Dynamic interplay of biogeochemical C, S and Ba cycles in response to the Shuram oxygenation event. Journal of the Geological Society, 2022, 179, .	2.1	12
2	The sulfur isotopic consequence of seawater sulfate distillation preserved in the Neoproterozoic Sete Lagoas post-glacial carbonate, eastern Brazil. Journal of the Geological Society, 2022, 179, .	2.1	3
3	A transient peak in marine sulfate after the 635-Ma snowball Earth. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117341119.	7.1	12
4	An authigenic response to Ediacaran surface oxidation: Remarkable micron-scale isotopic heterogeneity revealed by SIMS. Precambrian Research, 2022, 377, 106676.	2.7	8
5	Deposition or diagenesis? Probing the Ediacaran Shuram excursion in South China by SIMS. Global and Planetary Change, 2021, 206, 103591.	3.5	23
6	Quo vadis, Tommotian?. Geological Magazine, 2020, 157, 22-34.	1.5	23
7	Primary or secondary? A dichotomy of the strontium isotope anomalies in the Ediacaran carbonates of Saudi Arabia. Precambrian Research, 2020, 343, 105720.	2.7	18
8	Using SIMS to decode noisy stratigraphic Î´13C variations in Ediacaran carbonates. Precambrian Research, 2020, 343, 105686.	2.7	13
9	Sedimentological and mineralogical records from drill core SKD1 in the Jianghan Basin, Central China, and their implications for late Cretaceousâ€“early Eocene climate change. Journal of Asian Earth Sciences, 2019, 182, 103936.	2.3	17
10	Sedimentology and chemostratigraphy of the terminal Ediacaran Dengying Formation at the Gaojiashan section, South China. Geological Magazine, 2019, 156, 1924-1948.	1.5	48
11	Uranium isotope evidence for limited euxinia in mid-Proterozoic oceans. Earth and Planetary Science Letters, 2019, 521, 150-157.	4.4	61
12	Coupled isotopic evidence for elevated pCO2 and nitrogen limitation across the Santonian-Campanian transition. Chemical Geology, 2019, 504, 136-150.	3.3	11
13	PROBING AN ATYPICAL SHURAM EXCURSION BY SIMS. , 2019, , .		3
14	Proterozoic carbonates of the Vindhyan Basin, India: Chemostratigraphy and diagenesis. Gondwana Research, 2018, 57, 10-25.	6.0	33
15	Effects of bioturbation on carbon and sulfur cycling across the Ediacaranâ€“Cambrian transition at the GSSP in Newfoundland, Canada. Canadian Journal of Earth Sciences, 2018, 55, 1240-1252.	1.3	18
16	The Neoproterozoic HÃ¼ttenberg Î´13C anomaly: Genesis and global implications. Precambrian Research, 2018, 313, 242-262.	2.7	30
17	Preglacial palaeoenvironmental evolution of the Ediacaran Loma Negra Formation, far southwestern Gondwana, Argentina. Precambrian Research, 2018, 315, 120-137.	2.7	20
18	Transient marine euxinia at the end of the terminal Cryogenian glaciation. Nature Communications, 2018, 9, 3019.	12.8	41

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19	Extensive marine anoxia during the terminal Ediacaran Period. Science Advances, 2018, 4, eaan8983.	10.3	126
20	Southeastern Tanzania depositional environments, marine and terrestrial links, and exceptional microfossil preservation in the warm Turonian. Bulletin of the Geological Society of America, 2017, 129, 515-533.	3.3	9
21	Paleo-climatic and paleo-environmental evolution of the Neoproterozoic basal sedimentary cover on the RÃo de La Plata Craton, Argentina: Insights from the Î´13C chemostratigraphy. Sedimentary Geology, 2017, 353, 139-157.	2.1	22
22	Was the Ediacaran Shuram Excursion a globally synchronized early diagenetic event? Insights from methane-derived authigenic carbonates in the uppermost Doushantuo Formation, South China. Chemical Geology, 2017, 450, 59-80.	3.3	115
23	Field workshop on the Ediacaran Nama Group of southern Namibia. Episodes, 2017, 40, 259-261.	1.2	2
24	Phosphogenesis associated with the Shuram Excursion: Petrographic and geochemical observations from the Ediacaran Doushantuo Formation of South China. Sedimentary Geology, 2016, 341, 134-146.	2.1	62
25	Redox-dependent distribution of early macro-organisms: Evidence from the terminal Ediacaran Khatyspyt Formation in Arctic Siberia. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 461, 122-139.	2.3	57
26	Compositional evolution of the upper continental crust through time, as constrained by ancient glacial diamictites. Geochimica Et Cosmochimica Acta, 2016, 186, 316-343.	3.9	98
27	Sulfur isotope constraints on marine transgression in the lacustrine Upper Cretaceous Songliao Basin, northeastern China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 451, 152-163.	2.3	40
28	Magnesium isotopic compositions of the Mesoproterozoic dolostones: Implications for Mg isotopic systematics of marine carbonates. Geochimica Et Cosmochimica Acta, 2015, 164, 333-351.	3.9	75
29	Redox architecture of an Ediacaran ocean margin: Integrated chemostratigraphic (Î´13Câ€“Î´34Sâ€“87Sr/86Srâ€“Ce/Ce*) correlation of the Doushantuo Formation, South China. Chemical Geology, 2015, 405, 48-62.	3.3	98
30	Extraction of Hydrocarbons from High-Maturity Marcellus Shale Using Supercritical Carbon Dioxide. Energy & Fuels, 2015, 29, 7897-7909.	5.1	65
31	Widespread contamination of carbonate-associated sulfate by present-day secondary atmospheric sulfate: Evidence from triple oxygen isotopes. Geology, 2014, 42, 815-818.	4.4	49
32	Strontium isotope stratigraphy of the Gabbs Formation (Nevada): implications for global Norianâ€“Rhaetian correlations and faunal turnover. Lethaia, 2014, 47, 500-511.	1.4	19
33	A unifying model for Neoproterozoicâ€“Palaeozoic exceptional fossil preservation through pyritization and carbonaceous compression. Nature Communications, 2014, 5, 5754.	12.8	120
34	Cyanobacteria at work. Nature Geoscience, 2014, 7, 253-254.	12.9	21
35	Large sulfur isotope fractionations associated with Neoarchean microbial sulfate reduction. Science, 2014, 346, 742-744.	12.6	83
36	Onset of oxidative weathering of continents recorded in the geochemistry of ancient glacial diamictites. Earth and Planetary Science Letters, 2014, 408, 87-99.	4.4	59

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37	Paleoenvironmental implications of two phosphogenic events in Neoproterozoic sedimentary successions of the Tandilia System, Argentina. Precambrian Research, 2014, 252, 88-106.	2.7	21
38	Biostratigraphic and chemostratigraphic constraints on the age of early Neoproterozoic carbonate successions in North China. Precambrian Research, 2014, 246, 208-225.	2.7	77
39	Sulfur isotope and chemical compositions of the wet precipitation in two major urban areas, Seoul and Busan, Korea. Journal of Asian Earth Sciences, 2014, 79, 415-425.	2.3	18
40	Corumba Meeting 2013: The Neoproterozoic Paraguay Fold Belt (Brazil): Glaciation, iron-manganese formation and biota, an IGCP Workshop and Field Excursion on the Ediacaran system. Episodes, 2014, 37, 71-73.	1.2	2
41	Stratigraphy, palaeontology and geochemistry of the late Neoproterozoic Aar Member, southwest Namibia: Reflecting environmental controls on Ediacara fossil preservation during the terminal Proterozoic in African Gondwana. Precambrian Research, 2013, 238, 214-232.	2.7	45
42	Reâ€“Os age constraints and new observations of Proterozoic glacial deposits in the Vazante Group, Brazil. Precambrian Research, 2013, 238, 199-213.	2.7	48
43	Local Î´34S variability in âˆ¼580Ma carbonates of northwestern Mexico and the Neoproterozoic marine sulfate reservoir. Precambrian Research, 2013, 224, 551-569.	2.7	35
44	Sulfur, oxygen, and hydrogen isotope compositions of precipitation in Seoul, South Korea. Geochemical Journal, 2012, 46, 443-457.	1.0	9
45	Integrated chemostratigraphy of the Doushantuo Formation at the northern Xiaofenghe section (Yangtze Gorges, South China) and its implication for Ediacaran stratigraphic correlation and ocean redox models. Precambrian Research, 2012, 192-195, 125-141.	2.7	93
46	Sustained low marine sulfate concentrations from the Neoproterozoic to the Cambrian: Insights from carbonates of northwestern Mexico and eastern California. Earth and Planetary Science Letters, 2012, 339-340, 79-94.	4.4	112
47	Carbon, sulfur, and oxygen isotope evidence for a strong depth gradient and oceanic oxidation after the Ediacaran Hankalchough glaciation. Geochimica Et Cosmochimica Acta, 2011, 75, 1357-1373.	3.9	40
48	Stratigraphic and tectonic implications of field and isotopic constraints on depositional ages of Proterozoic Lesser Himalayan rocks in central Nepal. Precambrian Research, 2011, 185, 1-17.	2.7	64
49	Chapter 48 Neoproterozoic successions of the SÃ£o Francisco Craton, Brazil: the BambuÃ; Una, Vazante and Vaza Barris/Miaba groups and their glaciogenic deposits. Geological Society Memoir, 2011, 36, 509-522.	1.7	20
50	Evidence of magnetic isotope effects during thermochemical sulfate reduction. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17635-17638.	7.1	85
51	International Conference on Neoproterozoic Sedimentary Basins, Neoproterozoic Subcommission Workshop on Ediacaran Paleobiology, and IGCP Field Excursion to the East Sayan Mountain Range. Episodes, 2011, 34, 273-275.	1.2	1
52	Pervasive oxygenation along late Archaean ocean margins. Nature Geoscience, 2010, 3, 647-652.	12.9	233
53	Identification of sources and formation processes of atmospheric sulfate by sulfur isotope and scanning electron microscope measurements. Journal of Geophysical Research, 2010, 115, .	3.3	58
54	Carbon and sulfur isotope chemostratigraphy of the Neoproterozoic Quanji Group of the Chaidam Basin, NW China: Basin stratification in the aftermath of an Ediacaran glaciation postdating the Shuram event?. Precambrian Research, 2010, 177, 241-252.	2.7	70

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55	Radiometric and stratigraphic constraints on terminal Ediacaran (post-Gaskiers) glaciation and metazoan evolution. Precambrian Research, 2010, 182, 402-412.	2.7	57
56	Isotopic Evidence for an Aerobic Nitrogen Cycle in the Latest Archean. Science, 2009, 323, 1045-1048.	12.6	214
57	Evaluating the role of microbial sulfate reduction in the early Archean using quadruple isotope systematics. Earth and Planetary Science Letters, 2009, 279, 383-391.	4.4	173
58	Re-evaluating boron speciation in biogenic calcite and aragonite using 11B MAS NMR. Geochimica Et Cosmochimica Acta, 2009, 73, 1890-1900.	3.9	113
59	Lithofacies control on multiple-sulfur isotope records and Neoarchean sulfur cycles. Precambrian Research, 2009, 169, 58-67.	2.7	81
60	Reconstructing Earth's surface oxidation across the Archean-Proterozoic transition. Geology, 2009, 37, 399-402.	4.4	247
61	Stratification and mixing of a post-glacial Neoproterozoic ocean: Evidence from carbon and sulfur isotopes in a cap dolostone from northwest China. Earth and Planetary Science Letters, 2008, 265, 209-228.	4.4	89
62	Environmental and diagenetic variations in carbonate associated sulfate: An investigation of CAS in the Lower Triassic of the western USA. Geochimica Et Cosmochimica Acta, 2008, 72, 1570-1582.	3.9	76
63	Sulfur isotope biogeochemistry of the Proterozoic McArthur Basin. Geochimica Et Cosmochimica Acta, 2008, 72, 4278-4290.	3.9	67
64	Oxidation of pyrite during extraction of carbonate associated sulfate. Chemical Geology, 2008, 247, 124-132.	3.3	114
65	Pulsed oxidation and biological evolution in the Ediacaran Doushantuo Formation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3197-3202.	7.1	507
66	Carbon and nitrogen isotopic analysis of Pleistocene mammals from the Saltville Quarry (Virginia,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2007, 249, 271-282.	2.3	25
67	Oxidative forcing of global climate change: A biogeochemical record across the oldest Paleoproterozoic ice age in North America. Earth and Planetary Science Letters, 2007, 258, 486-499.	4.4	79
68	Carbon isotope variability across the Ediacaran Yangtze platform in South China: Implications for a large surface-to-deep ocean Î'13C gradient. Earth and Planetary Science Letters, 2007, 261, 303-320.	4.4	341
69	Chemostratigraphic correlation of Neoproterozoic successions in South America. Chemical Geology, 2007, 237, 143-167.	3.3	107
70	The effect of rising atmospheric oxygen on carbon and sulfur isotope anomalies in the Neoproterozoic Johnnie Formation, Death Valley, USA. Chemical Geology, 2007, 237, 47-63.	3.3	150
71	Late Archean Biospheric Oxygenation and Atmospheric Evolution. Science, 2007, 317, 1900-1903.	12.6	327
72	Ultrastructural and Geochemical Characterization of Archeanâ€"Paleoproterozoic Graphite Particles: Implications for Recognizing Traces of Life in Highly Metamorphosed Rocks. Astrobiology, 2007, 7, 684-704.	3.0	51

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73	Slush find. Nature, 2007, 450, 807-808.	27.8	4
74	Isotopic evidence for Mesoarchaean anoxia and changing atmospheric sulphur chemistry. Nature, 2007, 449, 706-709.	27.8	261
75	A Whiff of Oxygen Before the Great Oxidation Event?. Science, 2007, 317, 1903-1906.	12.6	822
76	Experimental measurement of boron isotope fractionation in seawater. Earth and Planetary Science Letters, 2006, 248, 276-285.	4.4	348
77	Experimental evaluation of the isotopic exchange equilibrium 10B(OH)3+11B(OH)4â^'=11B(OH)3+10B(OH)4â^' in aqueous solution. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 684-688.	1.4	35
78	Stable isotope record of the terminal Neoproterozoic Krol platform in the Lesser Himalayas of northern India. Precambrian Research, 2006, 147, 156-185.	2.7	127
79	Isotope stratigraphy of the Lapa Formation, SÃ£o Francisco Basin, Brazil: Implications for Late Neoproterozoic glacial events in South America. Precambrian Research, 2006, 149, 231-248.	2.7	39
80	The relationship between the Neoproterozoic Noonday Dolomite and the Ibex Formation: New observations and their bearing on â€˜snowball Earthâ€™. Earth-Science Reviews, 2005, 73, 63-78.	9.1	18
81	Biomarker Evidence for Photosynthesis During Neoproterozoic Glaciation. Science, 2005, 310, 471-474.	12.6	119
82	Active Microbial Sulfur Disproportionation in the Mesoproterozoic. Science, 2005, 310, 1477-1479.	12.6	215
83	The Neoproterozoic Quruqtagh Group in eastern Chinese Tianshan: evidence for a post-Marinoan glaciation. Precambrian Research, 2004, 130, 1-26.	2.7	213
84	Integrated Ediacaran chronostratigraphy, Wernecke Mountains, northwestern Canada. Precambrian Research, 2004, 132, 1-27.	2.7	26
85	Carbonate platform growth and cyclicity at a terminal Proterozoic passive margin, Infra Krol Formation and Krol Group, Lesser Himalaya, India. Sedimentology, 2003, 50, 921-952.	3.1	82
86	High CO2 levels in the Proterozoic atmosphere estimated from analyses of individual microfossils. Nature, 2003, 425, 279-282.	27.8	164
87	Stratigraphic investigations of carbon isotope anomalies and Neoproterozoic ice ages in Death Valley, California. Bulletin of the Geological Society of America, 2003, 115, 916-932.	3.3	176
88	The sulfur isotopic composition of Neoproterozoic seawater sulfate: implications for a snowball Earth?. Earth and Planetary Science Letters, 2002, 203, 413-429.	4.4	240
89	A major perturbation of the carbon cycle before the Ghaub glaciation (Neoproterozoic) in Namibia: Prelude to snowball Earth?. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-24.	2.5	141
90	Global events across the Mesoproterozoicâ€“Neoproterozoic boundary: C and Sr isotopic evidence from Siberia. Precambrian Research, 2001, 111, 165-202.	2.7	163

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91	Using Chemostratigraphy to Correlate and Calibrate Unconformities in Neoproterozoic Strata from the Southern Great Basin of the United States. International Geology Review, 2000, 42, 516-533.	2.1	21
92	Î´¹³C stratigraphy of the Proterozoic Bylot Supergroup, Baffin Island, Canada: implications for regional lithostratigraphic correlations. Canadian Journal of Earth Sciences, 1999, 36, 313-332.	1.3	183
93	The Sr, C and O isotopic evolution of Neoproterozoic seawater. Chemical Geology, 1999, 161, 37-57.	3.3	616
94	The abundance of 13C in marine organic matter and isotopic fractionation in the global biogeochemical cycle of carbon during the past 800 Ma. Chemical Geology, 1999, 161, 103-125.	3.3	700
95	A Neoproterozoic Snowball Earth. , 1998, 281, 1342-1346.		2,174
96	Sizing up the sub-Tommotian unconformity in Siberia: Comment and Reply. Geology, 1997, 25, 286.	4.4	1
97	Neoproterozoic fossils in Mesoproterozoic rocks? Chemostratigraphic resolution of a biostratigraphic conundrum from the North China Platform. Precambrian Research, 1997, 84, 197-220.	2.7	172
98	An ice age in the tropics. Nature, 1997, 386, 227-228.	27.8	40
99	Chemostratigraphy of Neoproterozoic-Cambrian Units, White-Inyo Region, Eastern California and Western Nevada: Implications for Global Correlation and Faunal Distribution. Palaios, 1996, 11, 83.	1.3	5
100	Geochemical and mineralogic effects of contact metamorphism on banded iron-formation: an example from the Transvaal Basin, South Africa. Precambrian Research, 1996, 79, 171-194.	2.7	44
101	Sizing up the sub-Tommotian unconformity in Siberia: Comment and Reply. Geology, 1996, 24, 860.	4.4	2
102	Integrated chronostratigraphy of Proterozoicâ€“Cambrian boundary beds in the western Anabar region, northern Siberia. Geological Magazine, 1996, 133, 509-533.	1.5	134
103	Title is missing!. Bulletin of the Geological Society of America, 1996, 108, 0992.	3.3	76
104	Sizing up the sub-Tommotian unconformity in Siberia. Geology, 1995, 23, 1139.	4.4	74
105	Chemostratigraphy of predominantly siliciclastic Neoproterozoic successions: a case study of the Pocatello Formation and Lower Brigham Group, Idaho, USA. Geological Magazine, 1994, 131, 301-314.	1.5	44
106	Integrated chemostratigraphy and biostratigraphy of the Windermere Supergroup, northwestern Canada: Implications for Neoproterozoic correlations and the early evolution of animals. Bulletin of the Geological Society of America, 1994, 106, 1281-1292.	3.3	259
107	The Vendian record of Sr and C isotopic variations in seawater: Implications for tectonics and paleoclimate. Earth and Planetary Science Letters, 1993, 120, 409-430.	4.4	441
108	Biostratigraphic and chemostratigraphic correlation of Neoproterozoic sedimentary successions: Upper Tindir Group, northwestern Canada, as a test case. Geology, 1992, 20, 181.	4.4	130

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109	Sedimentary cycling and environmental change in the Late Proterozoic: Evidence from stable and radiogenic isotopes. Geochimica Et Cosmochimica Acta, 1992, 56, 1317-1329.	3.9	520
110	Isotopic compositions of carbonates and organic carbon from upper Proterozoic successions in Namibia: stratigraphic variation and the effects of diagenesis and metamorphism. Precambrian Research, 1991, 49, 301-327.	2.7	284
111	Primary and diagenetic controls of isotopic compositions of iron-formation carbonates. Geochimica Et Cosmochimica Acta, 1990, 54, 3461-3473.	3.9	127
112	Heavy cosmic-ray exposure of Apollo astronauts. Science, 1975, 187, 263-265.	12.6	19