Alan Jay Kaufman

List of Publications by Year
in descending order

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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	A Neoproterozoic Snowball Earth. , 1998, 281, 1342-1346.		2,174
2	A Whiff of Oxygen Before the Great Oxidation Event?. Science, 2007, 317, 1903-1906.	12.6	822
3	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
4	The Sr, C and O isotopic evolution of Neoproterozoic seawater. Chemical Geology, 1999, 161, 37-57.	3.3	616
5	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
6	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
7	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
8	Experimental measurement of boron isotope fractionation in seawater. Earth and Planetary Science Letters, 2006, 248, 276-285.	4.4	348
9	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
10	Late Archean Biospheric Oxygenation and Atmospheric Evolution. Science, 2007, 317, 1900-1903.	12.6	327
11	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
12	Isotopic evidence for Mesoarchaean anoxia and changing atmospheric sulphur chemistry. Nature, 2007, 449, 706-709.	27.8	261
13	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
14	Reconstructing Earth's surface oxidation across the Archean-Proterozoic transition. Geology, 2009, 37, 399-402.	4.4	247
15	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
16	Pervasive oxygenation along late Archaean ocean margins. Nature Geoscience, 2010, 3, 647-652.	12.9	233
17	Active Microbial Sulfur Disproportionation in the Mesoproterozoic. Science, 2005, 310, 1477-1479.	12.6	215
18	Isotopic Evidence for an Aerobic Nitrogen Cycle in the Latest Archean. Science, 2009, 323, 1045-1048.	12.6	214

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19	The Neoproterozoic Quruqtagh Group in eastern Chinese Tianshan: evidence for a post-Marinoan glaciation. Precambrian Research, 2004, 130, 1-26.	2.7	213
20	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
21	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
22	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
23	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
24	High CO2 levels in the Proterozoic atmosphere estimated from analyses of individual microfossils. Nature, 2003, 425, 279-282.	27.8	164
25	Global events across the Mesoproterozoicâ€“Neoproterozoic boundary: C and Sr isotopic evidence from Siberia. Precambrian Research, 2001, 111, 165-202.	2.7	163
26	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
27	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
28	Integrated chronostratigraphy of Proterozoicâ€“Cambrian boundary beds in the western Anabar region, northern Siberia. Geological Magazine, 1996, 133, 509-533.	1.5	134
29	Biostratigraphic and chemostratigraphic correlation of Neoproterozoic sedimentary successions: Upper Tindir Group, northwestern Canada, as a test case. Geology, 1992, 20, 181.	4.4	130
30	Primary and diagenetic controls of isotopic compositions of iron-formation carbonates. Geochimica Et Cosmochimica Acta, 1990, 54, 3461-3473.	3.9	127
31	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
32	Extensive marine anoxia during the terminal Ediacaran Period. Science Advances, 2018, 4, eaan8983.	10.3	126
33	A unifying model for Neoproterozoicâ€“Palaeozoic exceptional fossil preservation through pyritization and carbonaceous compression. Nature Communications, 2014, 5, 5754.	12.8	120
34	Biomarker Evidence for Photosynthesis During Neoproterozoic Glaciation. Science, 2005, 310, 471-474.	12.6	119
35	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
36	Oxidation of pyrite during extraction of carbonate associated sulfate. Chemical Geology, 2008, 247, 124-132.	3.3	114

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37	Re-evaluating boron speciation in biogenic calcite and aragonite using 11B MAS NMR. Geochimica Et Cosmochimica Acta, 2009, 73, 1890-1900.	3.9	113
38	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
39	Chemostratigraphic correlation of Neoproterozoic successions in South America. Chemical Geology, 2007, 237, 143-167.	3.3	107
40	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
41	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
42	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
43	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
44	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
45	Large sulfur isotope fractionations associated with Neoarchean microbial sulfate reduction. Science, 2014, 346, 742-744.	12.6	83
46	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
47	Lithofacies control on multiple-sulfur isotope records and Neoarchean sulfur cycles. Precambrian Research, 2009, 169, 58-67.	2.7	81
48	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
49	Biostratigraphic and chemostratigraphic constraints on the age of early Neoproterozoic carbonate successions in North China. Precambrian Research, 2014, 246, 208-225.	2.7	77
50	Title is missing!. Bulletin of the Geological Society of America, 1996, 108, 0992.	3.3	76
51	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
52	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
53	Sizing up the sub-Tommotian unconformity in Siberia. Geology, 1995, 23, 1139.	4.4	74
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	Sulfur isotope biogeochemistry of the Proterozoic McArthur Basin. Geochimica Et Cosmochimica Acta, 2008, 72, 4278-4290.	3.9	67
56	Extraction of Hydrocarbons from High-Maturity Marcellus Shale Using Supercritical Carbon Dioxide. Energy & Fuels, 2015, 29, 7897-7909.	5.1	65
57	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
58	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
59	Uranium isotope evidence for limited euxinia in mid-Proterozoic oceans. Earth and Planetary Science Letters, 2019, 521, 150-157.	4.4	61
60	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
61	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
62	Radiometric and stratigraphic constraints on terminal Ediacaran (post-Gaskiers) glaciation and metazoan evolution. Precambrian Research, 2010, 182, 402-412.	2.7	57
63	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
64	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
65	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
66	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
67	Sedimentology and chemostratigraphy of the terminal Ediacaran Dengying Formation at the Gaojiashan section, South China. Geological Magazine, 2019, 156, 1924-1948.	1.5	48
68	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
69	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
70	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
71	Transient marine euxinia at the end of the terminal Cryogenian glaciation. Nature Communications, 2018, 9, 3019.	12.8	41
72	An ice age in the tropics. Nature, 1997, 386, 227-228.	27.8	40

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73	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
74	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
75	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
76	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
77	Local Î´34S variability in â¼580Ma carbonates of northwestern Mexico and the Neoproterozoic marine sulfate reservoir. Precambrian Research, 2013, 224, 551-569.	2.7	35
78	Proterozoic carbonates of the Vindhyan Basin, India: Chemostratigraphy and diagenesis. Gondwana Research, 2018, 57, 10-25.	6.0	33
79	The Neoproterozoic HÃ¼ttenberg Î´13C anomaly: Genesis and global implications. Precambrian Research, 2018, 313, 242-262.	2.7	30
80	Integrated Ediacaran chronostratigraphy, Wernecke Mountains, northwestern Canada. Precambrian Research, 2004, 132, 1-27.	2.7	26
81	Carbon and nitrogen isotopic analysis of Pleistocene mammals from the Saltville Quarry (Virginia,) Tj ETQq1 1 0.784314 rgBT /Overlock 2007, 249, 271-282.	2.3	25
82	Quo vadis, Tommotian?. Geological Magazine, 2020, 157, 22-34.	1.5	23
83	Deposition or diagenesis? Probing the Ediacaran Shuram excursion in South China by SIMS. Global and Planetary Change, 2021, 206, 103591.	3.5	23
84	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
85	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
86	Cyanobacteria at work. Nature Geoscience, 2014, 7, 253-254.	12.9	21
87	Paleoenvironmental implications of two phosphogenic events in Neoproterozoic sedimentary successions of the Tandilia System, Argentina. Precambrian Research, 2014, 252, 88-106.	2.7	21
88	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
89	Preglacial palaeoenvironmental evolution of the Ediacaran Loma Negra Formation, far southwestern Gondwana, Argentina. Precambrian Research, 2018, 315, 120-137.	2.7	20
90	Heavy cosmic-ray exposure of Apollo astronauts. Science, 1975, 187, 263-265.	12.6	19

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91	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
92	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
93	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
94	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
95	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
96	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
97	Using SIMS to decode noisy stratigraphic Î´13C variations in Ediacaran carbonates. Precambrian Research, 2020, 343, 105686.	2.7	13
98	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
99	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
100	Coupled isotopic evidence for elevated pCO2 and nitrogen limitation across the Santonian-Campanian transition. Chemical Geology, 2019, 504, 136-150.	3.3	11
101	Sulfur, oxygen, and hydrogen isotope compositions of precipitation in Seoul, South Korea. Geochemical Journal, 2012, 46, 443-457.	1.0	9
102	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
103	An authigenic response to Ediacaran surface oxidation: Remarkable micron-scale isotopic heterogeneity revealed by SIMS. Precambrian Research, 2022, 377, 106676.	2.7	8
104	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
105	Slush find. Nature, 2007, 450, 807-808.	27.8	4
106	PROBING AN ATYPICAL SHURAM EXCURSION BY SIMS. , 2019, , .		3
107	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
108	Sizing up the sub-Tommotian unconformity in Siberia: Comment and Reply. Geology, 1996, 24, 860.	4.4	2

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109	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
110	Field workshop on the Ediacaran Nama Group of southern Namibia. Episodes, 2017, 40, 259-261.	1.2	2
111	Sizing up the sub-Tommotian unconformity in Siberia: Comment and Reply. Geology, 1997, 25, 286.	4.4	1
112	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