

Alan Jay Kaufman

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108
papers

11,831
citations

52
h-index

108
g-index

114
ext. papers

13,108
ext. citations

8.2
avg, IF

6.09
L-index

#	Paper	IF	Citations
108	A neoproterozoic snowball earth. <i>Science</i> , 1998 , 281, 1342-6	33.3	1690
107	A whiff of oxygen before the great oxidation event?. <i>Science</i> , 2007 , 317, 1903-6	33.3	658
106	The abundance of ¹³ C in marine organic matter and isotopic fractionation in the global biogeochemical cycle of carbon during the past 800 Ma. <i>Chemical Geology</i> , 1999 , 161, 103-125	4.2	557
105	The Sr, C and O isotopic evolution of Neoproterozoic seawater. <i>Chemical Geology</i> , 1999 , 161, 37-57	4.2	518
104	Pulsed oxidation and biological evolution in the Ediacaran Doushantuo Formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 3197-202	11.5	435
103	Sedimentary cycling and environmental change in the Late Proterozoic: Evidence from stable and radiogenic isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 1992 , 56, 1317-1329	5.5	430
102	The Vendian record of Sr and C isotopic variations in seawater: Implications for tectonics and paleoclimate. <i>Earth and Planetary Science Letters</i> , 1993 , 120, 409-430	5.3	365
101	Carbon isotope variability across the Ediacaran Yangtze platform in South China: Implications for a large surface-to-deep ocean ¹³ C gradient. <i>Earth and Planetary Science Letters</i> , 2007 , 261, 303-320	5.3	294
100	Experimental measurement of boron isotope fractionation in seawater. <i>Earth and Planetary Science Letters</i> , 2006 , 248, 276-285	5.3	286
99	Late Archean biospheric oxygenation and atmospheric evolution. <i>Science</i> , 2007 , 317, 1900-3	33.3	281
98	Isotopic compositions of carbonates and organic carbon from upper Proterozoic successions in Namibia: stratigraphic variation and the effects of diagenesis and metamorphism. <i>Precambrian Research</i> , 1991 , 49, 301-27	3.9	256
97	Isotopic evidence for Mesoarchean anoxia and changing atmospheric sulphur chemistry. <i>Nature</i> , 2007 , 449, 706-9	50.4	220
96	Reconstructing Earth's surface oxidation across the Archean-Proterozoic transition. <i>Geology</i> , 2009 , 37, 399-402	5	210
95	Integrated chemostratigraphy and biostratigraphy of the Windermere Supergroup, northwestern Canada: implications for Neoproterozoic correlations and the early evolution of animals. <i>Bulletin of the Geological Society of America</i> , 1994 , 106, 1281-92	3.9	206
94	Pervasive oxygenation along late Archaean ocean margins. <i>Nature Geoscience</i> , 2010 , 3, 647-652	18.3	199
93	The sulfur isotopic composition of Neoproterozoic seawater sulfate: implications for a snowball Earth?. <i>Earth and Planetary Science Letters</i> , 2002 , 203, 413-429	5.3	197
92	The Neoproterozoic Quruqtagh Group in eastern Chinese Tianshan: evidence for a post-Marinoan glaciation. <i>Precambrian Research</i> , 2004 , 130, 1-26	3.9	178

91	Active microbial sulfur disproportionation in the Mesoproterozoic. <i>Science</i> , 2005 , 310, 1477-9	33.3	177
90	Isotopic evidence for an aerobic nitrogen cycle in the latest Archean. <i>Science</i> , 2009 , 323, 1045-8	33.3	175
89	Stratigraphic investigations of carbon isotope anomalies and Neoproterozoic ice ages in Death Valley, California. <i>Bulletin of the Geological Society of America</i> , 2003 , 115, 916-932	3.9	152
88	$\delta^{13}\text{C}$ stratigraphy of the Proterozoic Bylot Supergroup, Baffin Island, Canada: implications for regional lithostratigraphic correlations. <i>Canadian Journal of Earth Sciences</i> , 1999 , 36, 313-332	1.5	152
87	Neoproterozoic fossils in Mesoproterozoic rocks? Chemostratigraphic resolution of a biostratigraphic conundrum from the North China Platform. <i>Precambrian Research</i> , 1997 , 84, 197-220	3.9	151
86	Evaluating the role of microbial sulfate reduction in the early Archean using quadruple isotope systematics. <i>Earth and Planetary Science Letters</i> , 2009 , 279, 383-391	5.3	143
85	Global events across the Mesoproterozoic-Neoproterozoic boundary: C and Sr isotopic evidence from Siberia. <i>Precambrian Research</i> , 2001 , 111, 165-202	3.9	137
84	High CO ₂ levels in the Proterozoic atmosphere estimated from analyses of individual microfossils. <i>Nature</i> , 2003 , 425, 279-82	50.4	132
83	The effect of rising atmospheric oxygen on carbon and sulfur isotope anomalies in the Neoproterozoic Johnnie Formation, Death Valley, USA. <i>Chemical Geology</i> , 2007 , 237, 47-63	4.2	125
82	A major perturbation of the carbon cycle before the Ghaub glaciation (Neoproterozoic) in Namibia: Prelude to snowball Earth?. <i>Geochemistry, Geophysics, Geosystems</i> , 2002 , 3, 1-24	3.6	121
81	Integrated chronostratigraphy of Proterozoic-Cambrian boundary beds in the western Anabar region, northern Siberia. <i>Geological Magazine</i> , 1996 , 133, 509-33	2	117
80	Stable isotope record of the terminal Neoproterozoic Krol platform in the Lesser Himalayas of northern India. <i>Precambrian Research</i> , 2006 , 147, 156-185	3.9	111
79	Primary and diagenetic controls of isotopic compositions of iron-formation carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 1990 , 54, 3461-73	5.5	111
78	Biostratigraphic and chemostratigraphic correlation of Neoproterozoic sedimentary successions: upper Tindir Group, northwestern Canada, as a test case. <i>Geology</i> , 1992 , 20, 181-5	5	107
77	Re-evaluating boron speciation in biogenic calcite and aragonite using ¹¹ B MAS NMR. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 1890-1900	5.5	100
76	Biomarker evidence for photosynthesis during neoproterozoic glaciation. <i>Science</i> , 2005 , 310, 471-4	33.3	98
75	A unifying model for Neoproterozoic-Palaeozoic exceptional fossil preservation through pyritization and carbonaceous compression. <i>Nature Communications</i> , 2014 , 5, 5754	17.4	97
74	Oxidation of pyrite during extraction of carbonate associated sulfate. <i>Chemical Geology</i> , 2008 , 247, 124-132	13.2	94

73	Chemostratigraphic correlation of Neoproterozoic successions in South America. <i>Chemical Geology</i> , 2007 , 237, 143-167	4.2	93
72	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. <i>Precambrian Research</i> , 2012 , 192-195, 125-141	3.9	85
71	Sustained low marine sulfate concentrations from the Neoproterozoic to the Cambrian: Insights from carbonates of northwestern Mexico and eastern California. <i>Earth and Planetary Science Letters</i> , 2012 , 339-340, 79-94	5.3	85
70	Was the Ediacaran Shuram Excursion a globally synchronized early diagenetic event? Insights from methane-derived authigenic carbonates in the uppermost Doushantuo Formation, South China. <i>Chemical Geology</i> , 2017 , 450, 59-80	4.2	82
69	Extensive marine anoxia during the terminal Ediacaran Period. <i>Science Advances</i> , 2018 , 4, eaan8983	14.3	82
68	Redox architecture of an Ediacaran ocean margin: Integrated chemostratigraphic ($\delta^{13}\text{C}_{\text{org}}$ / $\delta^{87}\text{Sr}/\delta^{86}\text{Sr}$ / Ce/Ce^*) correlation of the Doushantuo Formation, South China. <i>Chemical Geology</i> , 2015 , 405, 48-62	4.2	80
67	Stratification and mixing of a post-glacial Neoproterozoic ocean: Evidence from carbon and sulfur isotopes in a cap dolostone from northwest China. <i>Earth and Planetary Science Letters</i> , 2008 , 265, 209-228	5.3	77
66	Evidence of magnetic isotope effects during thermochemical sulfate reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17635-8	11.5	71
65	Lithofacies control on multiple-sulfur isotope records and Neoproterozoic sulfur cycles. <i>Precambrian Research</i> , 2009 , 169, 58-67	3.9	71
64	Oxidative forcing of global climate change: A biogeochemical record across the oldest Paleoproterozoic ice age in North America. <i>Earth and Planetary Science Letters</i> , 2007 , 258, 486-499	5.3	69
63	Large sulfur isotope fractionations associated with Neoproterozoic microbial sulfate reduction. <i>Science</i> , 2014 , 346, 742-4	33.3	67
62	Carbonate platform growth and cyclicity at a terminal Proterozoic passive margin, Infra Krol Formation and Krol Group, Lesser Himalaya, India. <i>Sedimentology</i> , 2003 , 50, 921-952	3.3	66
61	Environmental and diagenetic variations in carbonate associated sulfate: An investigation of CAS in the Lower Triassic of the western USA. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 1570-1582	5.5	65
60	Compositional evolution of the upper continental crust through time, as constrained by ancient glacial diamictites. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 186, 316-343	5.5	62
59	Biostratigraphic and chemostratigraphic constraints on the age of early Neoproterozoic carbonate successions in North China. <i>Precambrian Research</i> , 2014 , 246, 208-225	3.9	59
58	Sizing up the sub-Tommotian unconformity in Siberia. <i>Geology</i> , 1995 , 23, 1139-43	5	57
57	Evaluation of $\delta^{13}\text{C}$ chemostratigraphy for intrabasinal correlation: Vendian strata of northeast Siberia. <i>Bulletin of the Geological Society of America</i> , 1996 , 108, 0992	3.9	56
56	Magnesium isotopic compositions of the Mesoproterozoic dolostones: Implications for Mg isotopic systematics of marine carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 164, 333-351	5.5	51

55	Stratigraphic and tectonic implications of field and isotopic constraints on depositional ages of Proterozoic Lesser Himalayan rocks in central Nepal. <i>Precambrian Research</i> , 2011 , 185, 1-17	3.9	50
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?. <i>Precambrian Research</i> , 2010 , 177, 241-252	3.9	50
53	Extraction of Hydrocarbons from High-Maturity Marcellus Shale Using Supercritical Carbon Dioxide. <i>Energy & Fuels</i> , 2015 , 29, 7897-7909	4.1	49
52	Sulfur isotope biogeochemistry of the Proterozoic McArthur Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 4278-4290	5.5	49
51	Phosphogenesis associated with the Shuram Excursion: Petrographic and geochemical observations from the Ediacaran Doushantuo Formation of South China. <i>Sedimentary Geology</i> , 2016 , 341, 134-146	2.8	48
50	Identification of sources and formation processes of atmospheric sulfate by sulfur isotope and scanning electron microscope measurements. <i>Journal of Geophysical Research</i> , 2010 , 115,		46
49	Radiometric and stratigraphic constraints on terminal Ediacaran (post-Gaskiers) glaciation and metazoan evolution. <i>Precambrian Research</i> , 2010 , 182, 402-412	3.9	46
48	Onset of oxidative weathering of continents recorded in the geochemistry of ancient glacial diamictites. <i>Earth and Planetary Science Letters</i> , 2014 , 408, 87-99	5.3	44
47	Redox-dependent distribution of early macro-organisms: Evidence from the terminal Ediacaran Khatyspyt Formation in Arctic Siberia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016 , 461, 122-139	2.9	42
46	Ultrastructural and geochemical characterization of Archean-Paleoproterozoic graphite particles: implications for recognizing traces of life in highly metamorphosed rocks. <i>Astrobiology</i> , 2007 , 7, 684-704	3.7	41
45	Uranium isotope evidence for limited euxinia in mid-Proterozoic oceans. <i>Earth and Planetary Science Letters</i> , 2019 , 521, 150-157	5.3	37
44	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. <i>Precambrian Research</i> , 2013 , 238, 214-232	3.9	37
43	Widespread contamination of carbonate-associated sulfate by present-day secondary atmospheric sulfate: Evidence from triple oxygen isotopes. <i>Geology</i> , 2014 , 42, 815-818	5	37
42	Isotope stratigraphy of the Lapa Formation, São Francisco Basin, Brazil: Implications for Late Neoproterozoic glacial events in South America. <i>Precambrian Research</i> , 2006 , 149, 231-248	3.9	37
41	Chemostratigraphy of predominantly siliciclastic Neoproterozoic successions: a case study of the Pocatello Formation and Lower Brigham Group, Idaho, USA. <i>Geological Magazine</i> , 1994 , 131, 301-14	2	37
40	ReO ₂ s age constraints and new observations of Proterozoic glacial deposits in the Vazante Group, Brazil. <i>Precambrian Research</i> , 2013 , 238, 199-213	3.9	36
39	Sedimentology and chemostratigraphy of the terminal Ediacaran Dengying Formation at the Gaojiashan section, South China. <i>Geological Magazine</i> , 2019 , n/a,	2	34
38	Geochemical and mineralogic effects of contact metamorphism on banded iron-formation: an example from the Transvaal Basin, South Africa. <i>Precambrian Research</i> , 1996 , 79, 171-194	3.9	34

37	Carbon, sulfur, and oxygen isotope evidence for a strong depth gradient and oceanic oxidation after the Ediacaran Hankalchough glaciation. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 1357-1373	5.5	32
36	Experimental evaluation of the isotopic exchange equilibrium $10\text{B}(\text{OH})_3 + 11\text{B}(\text{OH})_4 \rightleftharpoons 11\text{B}(\text{OH})_3 + 10\text{B}(\text{OH})_4$ in aqueous solution. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006 , 53, 684-688	2.5	32
35	Sulfur isotope constraints on marine transgression in the lacustrine Upper Cretaceous Songliao Basin, northeastern China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016 , 451, 152-163	2.9	27
34	Local $\delta^{34}\text{S}$ variability in ~580 Ma carbonates of northwestern Mexico and the Neoproterozoic marine sulfate reservoir. <i>Precambrian Research</i> , 2013 , 224, 551-569	3.9	27
33	Integrated Ediacaran chronostratigraphy, Wernecke Mountains, northwestern Canada. <i>Precambrian Research</i> , 2004 , 132, 1-27	3.9	25
32	Proterozoic carbonates of the Vindhyan Basin, India: Chemostratigraphy and diagenesis. <i>Gondwana Research</i> , 2018 , 57, 10-25	5.1	23
31	The Neoproterozoic Hf-enrichment $\delta^{13}\text{C}$ anomaly: Genesis and global implications. <i>Precambrian Research</i> , 2018 , 313, 242-262	3.9	23
30	Transient marine euxinia at the end of the terminal Cryogenian glaciation. <i>Nature Communications</i> , 2018 , 9, 3019	17.4	21
29	Carbon and nitrogen isotopic analysis of Pleistocene mammals from the Saltville Quarry (Virginia, USA): Implications for trophic relationships. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007 , 249, 271-282	2.9	21
28	Geology. The calibration of Ediacaran time. <i>Science</i> , 2005 , 308, 59-60	33.3	18
27	The relationship between the Neoproterozoic Noonday Dolomite and the Ibex Formation: New observations and their bearing on 'Snowball Earth'. <i>Earth-Science Reviews</i> , 2005 , 73, 63-78	10.2	17
26	Using Chemostratigraphy to Correlate and Calibrate Unconformities in Neoproterozoic Strata from the Southern Great Basin of the United States. <i>International Geology Review</i> , 2000 , 42, 516-533	2.3	17
25	Paleo-climatic and paleo-environmental evolution of the Neoproterozoic basal sedimentary cover on the Río de La Plata Craton, Argentina: Insights from the $\delta^{13}\text{C}$ chemostratigraphy. <i>Sedimentary Geology</i> , 2017 , 353, 139-157	2.8	15
24	Paleoenvironmental implications of two phosphogenic events in Neoproterozoic sedimentary successions of the Tandilia System, Argentina. <i>Precambrian Research</i> , 2014 , 252, 88-106	3.9	15
23	Sulfur isotope and chemical compositions of the wet precipitation in two major urban areas, Seoul and Busan, Korea. <i>Journal of Asian Earth Sciences</i> , 2014 , 79, 415-425	2.8	15
22	Primary or secondary? A dichotomy of the strontium isotope anomalies in the Ediacaran carbonates of Saudi Arabia. <i>Precambrian Research</i> , 2020 , 343, 105720	3.9	14
21	Chapter 48 Neoproterozoic successions of the São Francisco Craton, Brazil: the Bambuí, Vazante and Vaza Barris/Miaba groups and their glaciogenic deposits. <i>Geological Society Memoir</i> , 2011 , 36, 509-522	0.4	14
20	Preglacial palaeoenvironmental evolution of the Ediacaran Loma Negra Formation, far southwestern Gondwana, Argentina. <i>Precambrian Research</i> , 2018 , 315, 120-137	3.9	13

19	Effects of bioturbation on carbon and sulfur cycling across the Ediacaran-Cambrian transition at the GSSP in Newfoundland, Canada. <i>Canadian Journal of Earth Sciences</i> , 2018 , 55, 1240-1252	1.5	12
18	Strontium isotope stratigraphy of the Gabbs Formation (Nevada): implications for global Norian-Rhaetian correlations and faunal turnover. <i>Lethaia</i> , 2014 , 47, 500-511	1.3	11
17	Quo vadis, Tommotian?. <i>Geological Magazine</i> , 2020 , 157, 22-34	2	10
16	Using SIMS to decode noisy stratigraphic $\delta^{13}C$ variations in Ediacaran carbonates. <i>Precambrian Research</i> , 2020 , 343, 105686	3.9	9
15	Sedimentological and mineralogical records from drill core SKD1 in the Jiangnan Basin, Central China, and their implications for late Cretaceous-Early Eocene climate change. <i>Journal of Asian Earth Sciences</i> , 2019 , 182, 103936	2.8	9
14	Deposition or diagenesis? Probing the Ediacaran Shuram excursion in South China by SIMS. <i>Global and Planetary Change</i> , 2021 , 206, 103591	4.2	8
13	Southeastern Tanzania depositional environments, marine and terrestrial links, and exceptional microfossil preservation in the warm Turonian. <i>Bulletin of the Geological Society of America</i> , 2017 , 129, 515-533	3.9	7
12	Sulfur, oxygen, and hydrogen isotope compositions of precipitation in Seoul, South Korea. <i>Geochemical Journal</i> , 2012 , 46, 443-457	0.9	7
11	The Ediacaran-Cambrian Transition. <i>Geophysical Monograph Series</i> , 2018 , 115-142	1.1	6
10	Chemostratigraphy of Neoproterozoic-Cambrian Units, White-Inyo Region, Eastern California and Western Nevada: Implications for Global Correlation and Faunal Distribution. <i>Palaeos</i> , 1996 , 11, 83	1.6	5
9	Coupled isotopic evidence for elevated pCO ₂ and nitrogen limitation across the Santonian-Campanian transition. <i>Chemical Geology</i> , 2019 , 504, 136-150	4.2	5
8	Dynamic interplay of biogeochemical C, S, and Ba cycles in response to Shuram oxygenation event. <i>Journal of the Geological Society</i> , jgs2021-081	2.7	4
7	PROBING AN ATYPICAL SHURAM EXCURSION BY SIMS 2019 ,		3
6	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. <i>Episodes</i> , 2014 , 37, 71-73	1.6	2
5	Field workshop on the Ediacaran Nama Group of southern Namibia. <i>Episodes</i> , 2017 , 40, 259-261	1.6	2
4	Sizing up the sub-Tommotian unconformity in Siberia: Comment and Reply. <i>Geology</i> , 1996 , 24, 860	5	1
3	A transient peak in marine sulfate after the 635-Ma snowball Earth.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117341119	11.5	1
2	An authigenic response to Ediacaran surface oxidation: Remarkable micron-scale isotopic heterogeneity revealed by SIMS. <i>Precambrian Research</i> , 2022 , 377, 106676	3.9	0

- 1 The sulfur isotopic consequence of seawater sulfate distillation preserved in the Neoproterozoic Sete Lagoas post-glacial carbonate, eastern Brazil. *Journal of the Geological Society*,jgs2021-091 2.7