

Tais W Dahl

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,803
citations

236925

25
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

2510
citing authors

#	ARTICLE	IF	CITATIONS
1	Devonian rise in atmospheric oxygen correlated to the radiations of terrestrial plants and large predatory fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17911-17915.	7.1	340
2	Earliest land plants created modern levels of atmospheric oxygen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9704-9709.	7.1	236
3	THE STABLE ISOTOPE GEOCHEMISTRY OF MOLYBDENUM. <i>Reviews in Mineralogy and Geochemistry</i> , 2017, 82, 683-732.	4.8	191
4	A sulfidic driver for the end-Ordovician mass extinction. <i>Earth and Planetary Science Letters</i> , 2012, 331-332, 128-139.	4.4	174
5	Bacterial natural transformation by highly fragmented and damaged DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19860-19865.	7.1	170
6	Turbulent mixing of metal and silicate during planet accretion – And interpretation of the Hf–W chronometer. <i>Earth and Planetary Science Letters</i> , 2010, 295, 177-186.	4.4	136
7	Uranium isotopes distinguish two geochemically distinct stages during the later Cambrian SPICE event. <i>Earth and Planetary Science Letters</i> , 2014, 401, 313-326.	4.4	134
8	The behavior of molybdenum and its isotopes across the chemocline and in the sediments of sulfidic Lake Cadagno, Switzerland. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 144-163.	3.9	129
9	Molybdenum reduction in a sulfidic lake: Evidence from X-ray absorption fine-structure spectroscopy and implications for the Mo paleoproxy. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 103, 213-231.	3.9	120
10	Stabilization of the coupled oxygen and phosphorus cycles by the evolution of bioturbation. <i>Nature Geoscience</i> , 2014, 7, 671-676.	12.9	104
11	Molybdenum evidence for expansive sulfidic water masses in ~750Ma oceans. <i>Earth and Planetary Science Letters</i> , 2011, 311, 264-274.	4.4	102
12	Evidence of molybdenum association with particulate organic matter under sulfidic conditions. <i>Geobiology</i> , 2017, 15, 311-323.	2.4	77
13	The impacts of land plant evolution on Earth's climate and oxygenation state – An interdisciplinary review. <i>Chemical Geology</i> , 2020, 547, 119665.	3.3	77
14	Tracing euxinia by molybdenum concentrations in sediments using handheld X-ray fluorescence spectroscopy (HHXRF). <i>Chemical Geology</i> , 2013, 360-361, 241-251.	3.3	73
15	Atmosphere–ocean oxygen and productivity dynamics during early animal radiations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19352-19361.	7.1	72
16	Combining sedimentological, trace metal (Mn, Mo) and molecular evidence for reconstructing past water-column redox conditions: The example of meromictic Lake Cadagno (Swiss Alps). <i>Geochimica Et Cosmochimica Acta</i> , 2013, 120, 220-238.	3.9	70
17	Uranium isotopes in marine carbonates as a global ocean paleoredox proxy: A critical review. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 287, 27-49.	3.9	63
18	Two distinct episodes of marine anoxia during the Permian-Triassic crisis evidenced by uranium isotopes in marine dolostones. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 287, 165-179.	3.9	55

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19	Extensive marine anoxia associated with the Late Devonian Hangenberg Crisis. <i>Earth and Planetary Science Letters</i> , 2020, 533, 115976.	4.4	49
20	Sulfidic anoxia in the oceans during the Late Ordovician mass extinctions – insights from molybdenum and uranium isotopic global redox proxies. <i>Earth-Science Reviews</i> , 2021, 220, 103748.	9.1	30
21	Untangling the diagenetic history of uranium isotopes in marine carbonates: A case study tracing the $\delta^{238}\text{U}$ composition of late Silurian oceans using calcitic brachiopod shells. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 287, 93-110.	3.9	29
22	Ocean redox conditions between the snowballs – Geochemical constraints from Arena Formation, East Greenland. <i>Precambrian Research</i> , 2018, 319, 173-186.	2.7	28
23	Brief oxygenation events in locally anoxic oceans during the Cambrian solves the animal breathing paradox. <i>Scientific Reports</i> , 2019, 9, 11669.	3.3	28
24	Comparison of Ediacaran platform and slope $\delta^{238}\text{U}$ records in South China: Implications for global-ocean oxygenation and the origin of the Shuram Excursion. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 287, 111-124.	3.9	28
25	Estimating ancient seawater isotope compositions and global ocean redox conditions by coupling the molybdenum and uranium isotope systems of euxinic organic-rich mudrocks. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 290, 76-103.	3.9	27
26	Precise and accurate $\delta^{13}\text{C}$ analysis of rock samples using Flash Combustion – Cavity Ring Down Laser Spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 516.	3.0	26
27	Astronomically forced climate change in the late Cambrian. <i>Earth and Planetary Science Letters</i> , 2020, 548, 116475.	4.4	26
28	The Sedimentary Geochemistry and Paleoenvironments Project. <i>Geobiology</i> , 2021, 19, 545-556.	2.4	26
29	Bioturbation and directionality in Earth's carbon isotope record across the Neoproterozoic – Cambrian transition. <i>Geobiology</i> , 2018, 16, 252-278.	2.4	25
30	Redox dynamics of later Cambrian oceans. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 581, 110623.	2.3	23
31	Molybdenum isotope fractionation and speciation in a euxinic lake – Testing ways to discern isotope fractionation processes in a sulfidic setting. <i>Chemical Geology</i> , 2017, 460, 84-92.	3.3	20
32	High-resolution carbon isotope chemostratigraphy of the middle Cambrian to lowermost Ordovician in southern Scandinavia: Implications for global correlation. <i>Global and Planetary Change</i> , 2022, 209, 103751.	3.5	18
33	Reply to Planavsky et al.: Strong evidence for high atmospheric oxygen levels 1,400 million years ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2552-3.	7.1	17
34	Do large predatory fish track ocean oxygenation?. <i>Communicative and Integrative Biology</i> , 2011, 4, 92-94.	1.4	14
35	Synchronizing rock clocks in the late Cambrian. <i>Nature Communications</i> , 2022, 13, 1990.	12.8	14
36	Anomalous marine calcium cycle linked to carbonate factory change after the Smithian Thermal Maximum (Early Triassic). <i>Earth-Science Reviews</i> , 2020, 211, 103418.	9.1	13

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37	Uranium isotope evidence for extensive shallow water anoxia in the early Tonian oceans. Earth and Planetary Science Letters, 2022, 583, 117437.	4.4	12
38	Paired U and Mo isotope evidence for pervasive anoxia in the Cryogenian early interglacial ocean. Precambrian Research, 2021, 361, 106244.	2.7	10
39	16 Good Golly, Why Moly? THE STABLE ISOTOPE GEOCHEMISTRY OF MOLYBDENUM. , 2017, , 683-732.		9
40	Do large predatory fish track ocean oxygenation?. Communicative and Integrative Biology, 2011, 4, 92-4.	1.4	4
41	A dynamic local-scale vegetation model for lycopsids (LYCOM v1.0). Geoscientific Model Development, 2022, 15, 2325-2343.	3.6	2
42	The human impact on natural rock reserves using basalt, anorthosite, and carbonates as raw materials in insulation products. International Geology Review, 2011, 53, 894-904.	2.1	1
43	Identifying remnants of early Earth. Science, 2016, 352, 768-769.	12.6	1
44	Reply to Butterfield: The Devonian radiation of large predatory fish coincided with elevated atmospheric oxygen levels. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E29-E29.	7.1	0
45	Land plant evolution and global erosion rates: Reply to Neil S. Davies and William J. McMahon. Chemical Geology, 2021, 573, 120167.	3.3	0