

Jeremy D Owens

List of Publications by Year in descending order

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59
papers

2,896
citations

136950

32
h-index

168389

53
g-index

65
all docs

65
docs citations

65
times ranked

2357
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfur record of rising and falling marine oxygen and sulfate levels during the Lomagundi event. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18300-18305.	7.1	174
2	The iron paleoredox proxies: A guide to the pitfalls, problems and proper practice. <i>Numerische Mathematik</i> , 2018, 318, 491-526.	1.4	174
3	Terrestrial sources as the primary delivery mechanism of mercury to the oceans across the Toarcian Oceanic Anoxic Event (Early Jurassic). <i>Earth and Planetary Science Letters</i> , 2019, 507, 62-72.	4.4	146
4	Sulfur isotopes track the global extent and dynamics of euxinia during Cretaceous Oceanic Anoxic Event 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18407-18412.	7.1	127
5	Rapid recovery of life at ground zero of the end-Cretaceous mass extinction. <i>Nature</i> , 2018, 558, 288-291.	27.8	123
6	Thallium isotopes reveal protracted anoxia during the Toarcian (Early Jurassic) associated with volcanism, carbon burial, and mass extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6596-6601.	7.1	113
7	Evidence for rapid weathering response to climatic warming during the Toarcian Oceanic Anoxic Event. <i>Scientific Reports</i> , 2017, 7, 5003.	3.3	102
8	Fully oxygenated water columns over continental shelves before the Great Oxidation Event. <i>Nature Geoscience</i> , 2019, 12, 186-191.	12.9	95
9	Iron and manganese speciation and cycling in glacially influenced high-latitude fjord sediments (West) Tj ETQq1 1 0.784314 rgBT /Ov <i>Cosmochimica Acta</i> , 2014, 141, 628-655.	3.9	88
10	Constraining the rate of oceanic deoxygenation leading up to a Cretaceous Oceanic Anoxic Event (OAE-2: ~94 Ma). <i>Science Advances</i> , 2017, 3, e1701020.	10.3	87
11	Empirical links between trace metal cycling and marine microbial ecology during a large perturbation to Earth's carbon cycle. <i>Earth and Planetary Science Letters</i> , 2016, 449, 407-417.	4.4	82
12	Selenium as paleo-oceanographic proxy: A first assessment. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 302-317.	3.9	80
13	Thallium-isotopic compositions of euxinic sediments as a proxy for global manganese-oxide burial. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 291-307.	3.9	65
14	Tracking the rise of eukaryotes to ecological dominance with zinc isotopes. <i>Geobiology</i> , 2018, 16, 341-352.	2.4	65
15	Formation of syngenetic and early diagenetic iron minerals in the late Archean Mt. McRae Shale, Hamersley Basin, Australia: New insights on the patterns, controls and paleoenvironmental implications of authigenic mineral formation. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1072-1087.	3.9	64
16	An evaluation of sedimentary molybdenum and iron as proxies for pore fluid paleoredox conditions. <i>Numerische Mathematik</i> , 2018, 318, 527-556.	1.4	63
17	Upper ocean oxygenation dynamics from I/Ca ratios during the Cenomanian-Turonian OAE 2. <i>Paleoceanography</i> , 2015, 30, 510-526.	3.0	60
18	Cooling-driven oceanic anoxia across the Smithian/Spathian boundary (mid-Early Triassic). <i>Earth-Science Reviews</i> , 2019, 195, 133-146.	9.1	57

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19	Iron isotope and trace metal records of iron cycling in the proto-North Atlantic during the Cenomanian-Turonian oceanic anoxic event (OAE2). <i>Paleoceanography</i> , 2012, 27, .	3.0	56
20	Tracking along-arc sediment inputs to the Aleutian arc using thallium isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 181, 217-237.	3.9	56
21	Quantifying the missing sink for global organic carbon burial during a Cretaceous oceanic anoxic event. <i>Earth and Planetary Science Letters</i> , 2018, 499, 83-94.	4.4	52
22	Multiple negative molybdenum isotope excursions in the Doushantuo Formation (South China) fingerprint complex redox-related processes in the Ediacaran Nanhua Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 191-209.	3.9	52
23	Globally distributed iridium layer preserved within the Chicxulub impact structure. <i>Science Advances</i> , 2021, 7, .	10.3	47
24	Paired organic matter and pyrite $\delta^{34}\text{S}$ records reveal mechanisms of carbon, sulfur, and iron cycle disruption during Ocean Anoxic Event 2. <i>Earth and Planetary Science Letters</i> , 2019, 512, 27-38.	4.4	46
25	Patterns of local and global redox variability during the Cenomanian-Turonian Boundary Event (Oceanic Anoxic Event 2) recorded in carbonates and shales from central Italy. <i>Sedimentology</i> , 2017, 64, 168-185.	3.1	45
26	Sedimentary chromium isotopic compositions across the Cretaceous OAE2 at Demerara Rise Site 1258. <i>Chemical Geology</i> , 2016, 429, 85-92.	3.3	44
27	Linking the progressive expansion of reducing conditions to a stepwise mass extinction event in the late Silurian oceans. <i>Geology</i> , 2019, 47, 968-972.	4.4	40
28	Joining forces: Combined biological and geochemical proxies reveal a complex but refined high-resolution palaeo-oxygen history in Devonian epeiric seas. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2011, 306, 134-146.	2.3	39
29	Absence of biomarker evidence for early eukaryotic life from the Mesoproterozoic Roper Group: Searching across a marine redox gradient in mid-Proterozoic habitability. <i>Geobiology</i> , 2019, 17, 247-260.	2.4	39
30	Constraining oceanic oxygenation during the Shuram excursion in South China using thallium isotopes. <i>Geobiology</i> , 2020, 18, 348-365.	2.4	37
31	Dynamic changes in sulfate sulfur isotopes preceding the Ediacaran Shuram Excursion. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 170, 204-224.	3.9	36
32	Combing DNAzyme with single-walled carbon nanotubes for detection of Pb(II) in water. <i>Analyst</i> , 2011, 136, 764-768.	3.5	34
33	Vanadium isotope composition of seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 403-415.	3.9	32
34	Analysis of high-precision vanadium isotope ratios by medium resolution MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 531-536.	3.0	31
35	Upper Albian OAE 1d event in the Chihuahua Trough, New Mexico, U.S.A.. <i>Cretaceous Research</i> , 2013, 46, 136-150.	1.4	29
36	Geochemical evidence for expansion of marine euxinia during an early Silurian (Llandovery-Wenlock) Tj ETQq0 0 0 rgBT /Overlock 10	4.4	29

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37	Marine redox variability from Baltica during extinction events in the latest Ordovician–early Silurian. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 554, 109792.	2.3	28
38	Sedimentary vanadium isotope signatures in low oxygen marine conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 284, 134-155.	3.9	26
39	Thallium isotope ratios in shales from South China and northwestern Canada suggest widespread O ₂ accumulation in marine bottom waters was an uncommon occurrence during the Ediacaran Period. <i>Chemical Geology</i> , 2020, 557, 119856.	3.3	25
40	Transient ocean oxygenation at end-Permian mass extinction onset shown by thallium isotopes. <i>Nature Geoscience</i> , 2021, 14, 678-683.	12.9	24
41	Nucleosynthetic vanadium isotope heterogeneity of the early solar system recorded in chondritic meteorites. <i>Earth and Planetary Science Letters</i> , 2019, 505, 131-140.	4.4	23
42	Organically bound iodine as a bottom-water redox proxy: Preliminary validation and application. <i>Chemical Geology</i> , 2017, 457, 95-106.	3.3	22
43	Behavior of the Mo, Tl, and U isotope systems during differentiation in the Kilauea Iki lava lake. <i>Chemical Geology</i> , 2021, 574, 120239.	3.3	19
44	Trace metal enrichments in Lake Tanganyika sediments: Controls on trace metal burial in lacustrine systems. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 483-499.	3.9	18
45	Molybdenum isotope and trace metal signals in an iron-rich Mesoproterozoic ocean: A snapshot from the Vindhyan Basin, India. <i>Precambrian Research</i> , 2020, 343, 105718.	2.7	18
46	Integrated sedimentary, biotic, and paleoredox dynamics from multiple localities in southern Laurentia during the late Silurian (Ludfordian) extinction event. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 553, 109799.	2.3	17
47	Geochemical Records Reveal Protracted and Differential Marine Redox Change Associated With Late Ordovician Climate and Mass Extinctions. <i>AGU Advances</i> , 2022, 3, .	5.4	17
48	Vanadium isotopic fractionation during the formation of marine ferromanganese crusts and nodules. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 371-385.	3.9	16
49	New evidence for a long Rhaetian from a Panthalassan succession (Wrangell Mountains, Alaska) and regional differences in carbon cycle perturbations at the Triassic-Jurassic transition. <i>Earth and Planetary Science Letters</i> , 2022, 577, 117262.	4.4	13
50	Shifting modes of iron sulfidization at the onset of OAE-2 drive regional shifts in pyrite $\delta^{34}\text{S}$ records. <i>Chemical Geology</i> , 2020, 553, 119808.	3.3	12
51	Iron and manganese shuttle has no effect on sedimentary thallium and vanadium isotope signatures in Black Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 317, 218-233.	3.9	12
52	Nanoscale trace-element zoning in pyrite framboids and implications for paleoproxy applications. <i>Geology</i> , 2022, 50, 736-740.	4.4	11
53	Vanadium isotope fractionation during hydrothermal sedimentation: Implications for the vanadium cycle in the oceans. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 328, 168-184.	3.9	10
54	A multi-proxy approach to constrain reducing conditions in the Baltic Basin during the late Silurian Lau carbon isotope excursion. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 581, 110624.	2.3	9

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55	Geochemical signatures of redepositional environments: The Namibian continental margin. <i>Marine Geology</i> , 2020, 429, 106316.	2.1	7
56	Extreme eolian delivery of reactive iron to late Paleozoic icehouse seas. <i>Geology</i> , 0, , G37226.1.	4.4	6
57	Thallium behavior during high-pressure metamorphism in the Western Alps, Europe. <i>Chemical Geology</i> , 2021, 579, 120349.	3.3	6
58	New constraints on mid-Proterozoic ocean redox from stable thallium isotopes of black shales. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 315, 185-206.	3.9	6
59	Biotic induction and microbial ecological dynamics of Oceanic Anoxic Event 2. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	5