

Jeremy D Owens

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,896
citations

136885

32
h-index

168321

53
g-index

65
all docs

65
docs citations

65
times ranked

2357
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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. | 1.8 | 13 |
| 2 | 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. | 1.6 | 12 |
| 3 | Geochemical Records Reveal Protracted and Differential Marine Redox Change Associated With Late Ordovician Climate and Mass Extinctions. <i>AGU Advances</i> , 2022, 3, . | 2.3 | 17 |
| 4 | Nanoscale trace-element zoning in pyrite framboids and implications for paleoproxy applications. <i>Geology</i> , 2022, 50, 736-740. | 2.0 | 11 |
| 5 | Vanadium isotope fractionation during hydrothermal sedimentation: Implications for the vanadium cycle in the oceans. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 328, 168-184. | 1.6 | 10 |
| 6 | Biotic induction and microbial ecological dynamics of Oceanic Anoxic Event 2. <i>Communications Earth & Environment</i> , 2022, 3, . | 2.6 | 5 |
| 7 | Globally distributed iridium layer preserved within the Chicxulub impact structure. <i>Science Advances</i> , 2021, 7, . | 4.7 | 47 |
| 8 | Behavior of the Mo, Tl, and U isotope systems during differentiation in the Kilauea Iki lava lake. <i>Chemical Geology</i> , 2021, 574, 120239. | 1.4 | 19 |
| 9 | Transient ocean oxygenation at end-Permian mass extinction onset shown by thallium isotopes. <i>Nature Geoscience</i> , 2021, 14, 678-683. | 5.4 | 24 |
| 10 | Thallium behavior during high-pressure metamorphism in the Western Alps, Europe. <i>Chemical Geology</i> , 2021, 579, 120349. | 1.4 | 6 |
| 11 | New constraints on mid-Proterozoic ocean redox from stable thallium isotope systematics of black shales. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 315, 185-206. | 1.6 | 6 |
| 12 | 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. | 1.0 | 9 |
| 13 | 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. | 1.4 | 12 |
| 14 | Geochemical signatures of redepositional environments: The Namibian continental margin. <i>Marine Geology</i> , 2020, 429, 106316. | 0.9 | 7 |
| 15 | 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. | 1.4 | 25 |
| 16 | Marine redox variability from Baltica during extinction events in the latest Ordovician–early Silurian. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 554, 109792. | 1.0 | 28 |
| 17 | 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. | 1.0 | 17 |
| 18 | Sedimentary vanadium isotope signatures in low oxygen marine conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 284, 134-155. | 1.6 | 26 |

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|----|---|------|-----------|
| 19 | 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. | 1.2 | 18 |
| 20 | Constraining oceanic oxygenation during the Shuram excursion in South China using thallium isotopes. <i>Geobiology</i> , 2020, 18, 348-365. | 1.1 | 37 |
| 21 | 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. | 1.6 | 52 |
| 22 | 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. | 2.0 | 40 |
| 23 | Vanadium isotopic fractionation during the formation of marine ferromanganese crusts and nodules. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 371-385. | 1.6 | 16 |
| 24 | Cooling-driven oceanic anoxia across the Smithian/Spathian boundary (mid-Early Triassic). <i>Earth-Science Reviews</i> , 2019, 195, 133-146. | 4.0 | 57 |
| 25 | Geochemical evidence for expansion of marine euxinia during an early Silurian (Llandovery-Wenlock) Tj ETQq1 1 0,784314,rgBT /Over | 1.8 | 29 |
| 26 | Fully oxygenated water columns over continental shelves before the Great Oxidation Event. <i>Nature Geoscience</i> , 2019, 12, 186-191. | 5.4 | 95 |
| 27 | Paired organic matter and pyrite $\delta^{34}S$ 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. | 1.8 | 46 |
| 28 | 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. | 1.1 | 39 |
| 29 | Vanadium isotope composition of seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 403-415. | 1.6 | 32 |
| 30 | Nucleosynthetic vanadium isotope heterogeneity of the early solar system recorded in chondritic meteorites. <i>Earth and Planetary Science Letters</i> , 2019, 505, 131-140. | 1.8 | 23 |
| 31 | 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. | 1.8 | 146 |
| 32 | Rapid recovery of life at ground zero of the end-Cretaceous mass extinction. <i>Nature</i> , 2018, 558, 288-291. | 13.7 | 123 |
| 33 | 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. | 1.8 | 52 |
| 34 | The iron paleoredox proxies: A guide to the pitfalls, problems and proper practice. <i>Numerische Mathematik</i> , 2018, 318, 491-526. | 0.7 | 174 |
| 35 | An evaluation of sedimentary molybdenum and iron as proxies for pore fluid paleoredox conditions. <i>Numerische Mathematik</i> , 2018, 318, 527-556. | 0.7 | 63 |
| 36 | Tracking the rise of eukaryotes to ecological dominance with zinc isotopes. <i>Geobiology</i> , 2018, 16, 341-352. | 1.1 | 65 |

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|----|---|-----|-----------|
| 37 | 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. | 3.3 | 113 |
| 38 | Organically bound iodine as a bottom-water redox proxy: Preliminary validation and application. <i>Chemical Geology</i> , 2017, 457, 95-106. | 1.4 | 22 |
| 39 | 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. | 4.7 | 87 |
| 40 | Evidence for rapid weathering response to climatic warming during the Toarcian Oceanic Anoxic Event. <i>Scientific Reports</i> , 2017, 7, 5003. | 1.6 | 102 |
| 41 | Thallium-isotopic compositions of euxinic sediments as a proxy for global manganese-oxide burial. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 291-307. | 1.6 | 65 |
| 42 | 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. | 1.6 | 45 |
| 43 | Tracking along-arc sediment inputs to the Aleutian arc using thallium isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 181, 217-237. | 1.6 | 56 |
| 44 | Sedimentary chromium isotopic compositions across the Cretaceous OAE2 at Demerara Rise Site 1258. <i>Chemical Geology</i> , 2016, 429, 85-92. | 1.4 | 44 |
| 45 | 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. | 1.8 | 82 |
| 46 | Analysis of high-precision vanadium isotope ratios by medium resolution MC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 531-536. | 1.6 | 31 |
| 47 | Upper ocean oxygenation dynamics from I/Ca ratios during the Cenomanian-Turonian OAE 2. <i>Paleoceanography</i> , 2015, 30, 510-526. | 3.0 | 60 |
| 48 | Dynamic changes in sulfate sulfur isotopes preceding the Ediacaran Shuram Excursion. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 170, 204-224. | 1.6 | 36 |
| 49 | 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. | 1.6 | 88 |
| 50 | Upper Albian OAE 1d event in the Chihuahua Trough, New Mexico, U.S.A.. <i>Cretaceous Research</i> , 2013, 46, 136-150. | 0.6 | 29 |
| 51 | 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. | 3.3 | 127 |
| 52 | 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. | 3.3 | 174 |
| 53 | Selenium as paleo-oceanographic proxy: A first assessment. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 302-317. | 1.6 | 80 |
| 54 | Iron isotope and trace metal records of iron cycling in the proto-North Atlantic during the Cenomanian-Turonian oceanic anoxic event (OAE-2). <i>Paleoceanography</i> , 2012, 27, . | 3.0 | 56 |

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|----|---|-----|-----------|
| 55 | Combing DNAzyme with single-walled carbon nanotubes for detection of Pb in water. <i>Analyst</i> , 2011, 136, 764-768. | 1.7 | 34 |
| 56 | 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. | 1.6 | 18 |
| 57 | 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. | 1.6 | 64 |
| 58 | 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. | 1.0 | 39 |
| 59 | Extreme eolian delivery of reactive iron to late Paleozoic icehouse seas. <i>Geology</i> , 0, , G37226.1. | 2.0 | 6 |