

Timothy W Lyons

List of Publications by Year in descending order

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32
papers

8,917
citations

201674

27
h-index

414414

32
g-index

34
all docs

34
docs citations

34
times ranked

5234
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Reconciling evidence of oxidative weathering and atmospheric anoxia on Archean Earth. <i>Science Advances</i> , 2021, 7, eabj0108.	10.3	21
4	An expanded shale $\delta^{98}\text{Mo}$ record permits recurrent shallow marine oxygenation during the Neoproterozoic. <i>Chemical Geology</i> , 2020, 532, 119391.	3.3	15
5	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
6	Experimental determination of pyrite and molybdenite oxidation kinetics at nanomolar oxygen concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 249, 160-172.	3.9	28
7	Molybdenum record from black shales indicates oscillating atmospheric oxygen levels in the early Paleoproterozoic. <i>Numerische Mathematik</i> , 2018, 318, 275-299.	1.4	31
8	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
9	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
10	Perspectives on Proterozoic surface ocean redox from iodine contents in ancient and recent carbonate. <i>Earth and Planetary Science Letters</i> , 2017, 463, 159-170.	4.4	172
11	Molybdenum isotope chemostratigraphy and paleoceanography of the Toarcian Oceanic Anoxic Event (Early Jurassic). <i>Paleoceanography</i> , 2017, 32, 813-829.	3.0	59
12	Earth's oxygen cycle and the evolution of animal life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8933-8938.	7.1	205
13	An iodine record of Paleoproterozoic surface ocean oxygenation. <i>Geology</i> , 2014, 42, 619-622.	4.4	111
14	The rise of oxygen in Earth's early ocean and atmosphere. <i>Nature</i> , 2014, 506, 307-315.	27.8	1,966
15	Coupled molybdenum, iron and uranium stable isotopes as oceanic paleoredox proxies during the Paleoproterozoic Shunga Event. <i>Chemical Geology</i> , 2013, 362, 193-210.	3.3	129
16	Proterozoic ocean redox and biogeochemical stasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5357-5362.	7.1	418
17	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
18	Contrasting molybdenum cycling and isotopic properties in euxinic versus non-euxinic sediments and sedimentary rocks: Refining the paleoproxies. <i>Chemical Geology</i> , 2012, 324-325, 19-27.	3.3	509

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19	Ocean oxygenation in the wake of the Marinoan glaciation. <i>Nature</i> , 2012, 489, 546-549.	27.8	420
20	A global perturbation to the sulfur cycle during the Toarcian Oceanic Anoxic Event. <i>Earth and Planetary Science Letters</i> , 2011, 312, 484-496.	4.4	122
21	Pervasive oxygenation along late Archaean ocean margins. <i>Nature Geoscience</i> , 2010, 3, 647-652.	12.9	233
22	A Stratified Redox Model for the Ediacaran Ocean. <i>Science</i> , 2010, 328, 80-83.	12.6	520
23	Molybdenum isotope evidence for mild environmental oxygenation before the Great Oxidation Event. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6655-6668.	3.9	139
24	A Late Archean Sulfidic Sea Stimulated by Early Oxidative Weathering of the Continents. <i>Science</i> , 2009, 326, 713-716.	12.6	241
25	Behavior of carbonate-associated sulfate during meteoric diagenesis and implications for the sulfur isotope paleoproxy. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4699-4711.	3.9	123
26	Modern iron isotope perspective on the benthic iron shuttle and the redox evolution of ancient oceans. <i>Geology</i> , 2008, 36, 487.	4.4	197
27	Late Archean Biospheric Oxygenation and Atmospheric Evolution. <i>Science</i> , 2007, 317, 1900-1903.	12.6	327
28	A Whiff of Oxygen Before the Great Oxidation Event?. <i>Science</i> , 2007, 317, 1903-1906.	12.6	822
29	Mo-total organic carbon covariation in modern anoxic marine environments: Implications for analysis of paleoredox and paleohydrographic conditions. <i>Paleoceanography</i> , 2006, 21, n/a-n/a.	3.0	802
30	A critical look at iron paleoredox proxies: New insights from modern euxinic marine basins. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5698-5722.	3.9	492
31	Sulfur isotopic trends and pathways of iron sulfide formation in upper Holocene sediments of the anoxic Black Sea. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3367-3382.	3.9	249
32	Carbon-sulfur-iron systematics of the uppermost deep-water sediments of the Black Sea. <i>Chemical Geology</i> , 1992, 99, 1-27.	3.3	181