

Gwyneth W Gordon

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

4,213
citations

218677

26
h-index

189892

50
g-index

56
all docs

56
docs citations

56
times ranked

3997
citing authors

#	ARTICLE	IF	CITATIONS
1	A Whiff of Oxygen Before the Great Oxidation Event?. <i>Science</i> , 2007, 317, 1903-1906.	12.6	822
2	A Bacterium That Can Grow by Using Arsenic Instead of Phosphorus. <i>Science</i> , 2011, 332, 1163-1166.	12.6	422
3	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
4	Uranium and molybdenum isotope evidence for an episode of widespread ocean oxygenation during the late Ediacaran Period. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 156, 173-193.	3.9	222
5	Re ¹⁸⁷ Os and Mo isotope systematics of black shales from the Middle Proterozoic Velkerri and Wollgorang Formations, McArthur Basin, northern Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2534-2558.	3.9	209
6	Characterization, Recovery Opportunities, and Valuation of Metals in Municipal Sludges from U.S. Wastewater Treatment Plants Nationwide. <i>Environmental Science & Technology</i> , 2015, 49, 9479-9488.	10.0	199
7	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
8	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
9	Resolution of inter-laboratory discrepancies in Mo isotope data: an intercalibration. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 724.	3.0	138
10	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
11	Rapidly assessing changes in bone mineral balance using natural stable calcium isotopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9989-9994.	7.1	115
12	Synthetic Hydrogenases: Incorporation of an Iron Carbonyl Thiolate into a Designed Peptide. <i>Journal of the American Chemical Society</i> , 2007, 129, 14844-14845.	13.7	105
13	Molybdenum evidence for expansive sulfidic water masses in ~750Ma oceans. <i>Earth and Planetary Science Letters</i> , 2011, 311, 264-274.	4.4	102
14	Molybdenum isotope constraints on the extent of late Paleoproterozoic ocean euxinia. <i>Earth and Planetary Science Letters</i> , 2011, 307, 450-460.	4.4	99
15	Introducing ^{88/86} Sr analysis in archaeology: a demonstration of the utility of strontium isotope fractionation in paleodietary studies. <i>Journal of Archaeological Science</i> , 2010, 37, 2352-2364.	2.4	97
16	Fully oxygenated water columns over continental shelves before the Great Oxidation Event. <i>Nature Geoscience</i> , 2019, 12, 186-191.	12.9	95
17	Uranium isotope systematics of ferromanganese crusts in the Pacific Ocean: Implications for the marine ²³⁸ U/ ²³⁵ U isotope system. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 146, 43-58.	3.9	85
18	From water to edible fish. Transfer of metals and metalloids in the San Roque Reservoir (Córdoba, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	6.3	66

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19	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
20	High-Precision Measurement of Variations in Calcium Isotope Ratios in Urine by Multiple Collector Inductively Coupled Plasma Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 6956-6962.	6.5	50
21	Using natural, stable calcium isotopes of human blood to detect and monitor changes in bone mineral balance. <i>Bone</i> , 2015, 77, 69-74.	2.9	44
22	Isotopic evidence for Fe cycling and repartitioning in ancient oxygen-deficient settings: Examples from black shales of the mid-to-late Devonian Appalachian basin. <i>Earth and Planetary Science Letters</i> , 2010, 290, 244-253.	4.4	42
23	Marine redox conditions during deposition of Late Ordovician and Early Silurian organic-rich mudrocks in the Siljan ring district, central Sweden. <i>Chemical Geology</i> , 2017, 457, 75-94.	3.3	42
24	Isotopic Fingerprints of Anthropogenic Molybdenum in Lake Sediments. <i>Environmental Science & Technology</i> , 2012, 46, 10934-10940.	10.0	34
25	Redox conditions across the Cambrian-Ordovician boundary: Elemental and isotopic signatures retained in the GSSP carbonates. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 440, 440-454.	2.3	33
26	Conodont calcium isotopic evidence for multiple shelf acidification events during the Early Triassic. <i>Chemical Geology</i> , 2021, 562, 120038.	3.3	28
27	Plant-Soil Distribution of Potentially Toxic Elements in Response to Elevated Atmospheric CO ₂ . <i>Environmental Science & Technology</i> , 2011, 45, 2570-2574.	10.0	26
28	Redox dynamics of later Cambrian oceans. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 581, 110623.	2.3	23
29	Isotopic perspectives on pastoralist mobility in the Late Bronze Age South Caucasus. <i>Journal of Anthropological Archaeology</i> , 2019, 54, 48-67.	1.6	22
30	Large molybdenum isotope variations trace subsurface fluid migration along the Dead Sea transform. <i>Geology</i> , 2009, 37, 463-466.	4.4	21
31	Molybdenum isotopes in hydrothermal manganese crust from the Ryukyu arc system: Implications for the source of molybdenum. <i>Marine Geology</i> , 2015, 369, 91-99.	2.1	21
32	Iron isotope investigation of hydrothermal and sedimentary pyrite and their aqueous dissolution products. <i>Chemical Geology</i> , 2016, 427, 73-82.	3.3	21
33	Links between seawater paleoredox and the formation of sediment-hosted massive sulphide (SHMS) deposits - Fe speciation and Mo isotope constraints from Late Devonian mudstones. <i>Chemical Geology</i> , 2018, 490, 45-60.	3.3	19
34	Uranium isotope variations in a dolomitized Jurassic carbonate platform (Tithonian; Franconian Alb.) <i>Earth and Planetary Science Letters</i> , 2010, 290, 107-116.	3.3	18
35	Expanding radiogenic strontium isotope baseline data for central Mexican paleomobility studies. <i>PLoS ONE</i> , 2020, 15, e0229687.	2.5	18
36	A framework for understanding Mo isotope records of Archean and Paleoproterozoic Fe- and Mn-rich sedimentary rocks: Insights from modern marine hydrothermal Fe-Mn oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 221-236.	3.9	17

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37	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
38	Biogeochemical reconstructions of life histories as a method to assess regional interactions: Stable oxygen and radiogenic strontium isotopes and Late Intermediate Period mobility on the Central Peruvian Coast. <i>Journal of Archaeological Science: Reports</i> , 2017, 13, 535-546.	0.5	11
39	Drinking Locally: A Water $87\text{Sr}/86\text{Sr}$ Isoscape for Geolocation of Archeological Samples in the Peruvian Andes. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	11
40	An interlaboratory study to evaluate the forensic analysis and interpretation of glass evidence. <i>Forensic Chemistry</i> , 2022, 27, 100378.	2.8	10
41	Migration, violence, and the "other": A biogeochemical approach to identity-based violence in the Epiclassic Basin of Mexico. <i>Journal of Anthropological Archaeology</i> , 2021, 61, 101263.	1.6	9
42	New understandings of the sea spray effect and its impact on bioavailable radiogenic strontium isotope ratios in coastal environments. <i>Journal of Archaeological Science: Reports</i> , 2020, 33, 102462.	0.5	8
43	Redox renaissance. <i>Geology</i> , 2008, 36, 271.	4.4	7
44	Preservation of hair stable isotope signatures during freezing and law enforcement evidence packaging. <i>Forensic Chemistry</i> , 2018, 11, 108-119.	2.8	7
45	Traveling monastic paths: Mobility and religion at medieval Irish monasteries. <i>Journal of Anthropological Archaeology</i> , 2019, 55, 101077.	1.6	6
46	Progressive ocean oxygenation at $\sim 2.2\text{ Ga}$ inferred from geochemistry and molybdenum isotopes of the Nsuta Mn deposit, Ghana. <i>Chemical Geology</i> , 2021, 567, 120116.	3.3	6
47	Significance of ^{56}Fe depletions in late-Archean shales and pyrite. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 316, 87-104.	3.9	6
48	Comments on "Application of laser ablation multicollector inductively coupled plasma mass spectrometry for the measurement of calcium and lead isotope ratios in packaging for discriminatory purposes", <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 3196-3198.	1.5	3
49	Field-deployable measurements of free-living individuals to determine energy balance: fuel substrate usage through $\delta^{13}\text{C}$ in breath CO_2 and diet through hair $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ values. <i>Isotopes in Environmental and Health Studies</i> , 2019, 55, 70-79.	1.0	1
50	Reconstructing feast provisioning at Halaf Domuztepe: Evidence from radiogenic strontium analyses. <i>Journal of Archaeological Science</i> , 2021, 131, 105408.	2.4	1
51	Reply to Butterfield: The Devonian radiation of large predatory fish coincided with elevated atmospheric oxygen levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E29-E29.	7.1	0
52	Calcium Isotopic Composition and Its Association With Multiple Myeloma Disease Activity. <i>Blood</i> , 2013, 122, 3157-3157.	1.4	0
53	Expanding radiogenic strontium isotope baseline data for central Mexican paleomobility studies. , 2020, 15, e0229687.		0
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