

Christopher R Pearce

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,391
citations

201385

27
h-index

315357

38
g-index

39
all docs

39
docs citations

39
times ranked

2240
citing authors

#	ARTICLE	IF	CITATIONS
1	Assuring the integrity of offshore carbon dioxide storage. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 166, 112670.	8.2	8
2	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO ₂ release. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103237.	2.3	39
3	Impact of CO ₂ leakage from sub-seabed carbon dioxide storage on sediment and porewater geochemistry. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103352.	2.3	21
4	Contrasting Estuarine Processing of Dissolved Organic Matter Derived From Natural and Human-impacted Landscapes. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007023.	1.9	12
5	Utility of natural and artificial geochemical tracers for leakage monitoring and quantification during an offshore controlled CO ₂ release experiment. <i>International Journal of Greenhouse Gas Control</i> , 2021, 111, 103421.	2.3	13
6	Lithium isotope evidence for enhanced weathering and erosion during the Paleocene-Eocene Thermal Maximum. <i>Science Advances</i> , 2021, 7, eabh4224.	4.7	44
7	Suitability analysis and revised strategies for marine environmental carbon capture and storage (CCS) monitoring. <i>International Journal of Greenhouse Gas Control</i> , 2021, 112, 103510.	2.3	17
8	Magnesium isotope fractionation during hydrothermal seawater-basalt interaction. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 272, 21-35.	1.6	21
9	Increased yield and CO ₂ sequestration potential with the C ₄ cereal <i>Sorghum bicolor</i> cultivated in basaltic rock dust-amended agricultural soil. <i>Global Change Biology</i> , 2020, 26, 3658-3676.	4.2	102
10	Potential for large-scale CO ₂ removal via enhanced rock weathering with croplands. <i>Nature</i> , 2020, 583, 242-248.	13.7	263
11	Behaviour of chromium and chromium isotopes during estuarine mixing in the Beaulieu Estuary, UK. <i>Earth and Planetary Science Letters</i> , 2020, 536, 116166.	1.8	22
12	The response of Li and Mg isotopes to rain events in a highly-weathered catchment. <i>Chemical Geology</i> , 2019, 519, 68-82.	1.4	29
13	Weathering processes, catchment geology and river management impacts on radiogenic (⁸⁷ Sr/ ⁸⁶ Sr) and stable (¹⁸⁸ / ⁸⁶ Sr) strontium isotope compositions of Canadian boreal rivers. <i>Chemical Geology</i> , 2018, 486, 50-60.	1.4	19
14	Molybdenum isotope behaviour in groundwaters and terrestrial hydrothermal systems, Iceland. <i>Earth and Planetary Science Letters</i> , 2018, 486, 108-118.	1.8	37
15	Behaviour of chromium isotopes in the eastern sub-tropical Atlantic Oxygen Minimum Zone. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 236, 41-59.	1.6	51
16	Tracing olivine carbonation and serpentinization in CO ₂ -rich fluids via magnesium exchange and isotopic fractionation. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 243, 133-148.	1.6	9
17	Stable and radiogenic strontium isotope fractionation during hydrothermal seawater-basalt interaction. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 240, 131-151.	1.6	21
18	Climate change mitigation: potential benefits and pitfalls of enhanced rock weathering in tropical agriculture. <i>Biology Letters</i> , 2017, 13, 20160715.	1.0	73

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19	The control of carbonate mineral Mg isotope composition by aqueous speciation: Theoretical and experimental modeling. <i>Chemical Geology</i> , 2016, 445, 120-134.	1.4	84
20	Characterising the stable ($\delta^{88/86}\text{Sr}$) and radiogenic ($^{87}\text{Sr}/^{86}\text{Sr}$) isotopic composition of strontium in rainwater. <i>Chemical Geology</i> , 2015, 409, 54-60.	1.4	26
21	Reassessing the stable ($\delta^{88/86}\text{Sr}$) and radiogenic ($^{87}\text{Sr}/^{86}\text{Sr}$) strontium isotopic composition of marine inputs. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 157, 125-146.	1.6	89
22	The efficient long-term inhibition of forsterite dissolution by common soil bacteria and fungi at Earth surface conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 168, 222-235.	1.6	38
23	Quantifying the impact of riverine particulate dissolution in seawater on ocean chemistry. <i>Earth and Planetary Science Letters</i> , 2014, 395, 91-100.	1.8	45
24	Resolution of inter-laboratory discrepancies in Mo isotope data: an intercalibration. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 724.	1.6	138
25	Using Mg Isotopes to Trace Cyanobacterially Mediated Magnesium Carbonate Precipitation in Alkaline Lakes. <i>Aquatic Geochemistry</i> , 2013, 19, 1-24.	1.5	85
26	The effect of particulate dissolution on the neodymium (Nd) isotope and Rare Earth Element (REE) composition of seawater. <i>Earth and Planetary Science Letters</i> , 2013, 369-370, 138-147.	1.8	122
27	Magnesium isotope fractionation during hydrous magnesium carbonate precipitation with and without cyanobacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 76, 161-174.	1.6	93
28	An experimental study of the interaction of basaltic riverine particulate material and seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 77, 108-120.	1.6	68
29	Isotopic fractionation during congruent dissolution, precipitation and at equilibrium: Evidence from Mg isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 92, 170-183.	1.6	101
30	Riverine particulate material dissolution in seawater and its implications for the global cycles of the elements. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 646-651.	0.4	39
31	Riverine particulate material dissolution as a significant flux of strontium to the oceans. <i>Earth and Planetary Science Letters</i> , 2012, 355-356, 51-59.	1.8	66
32	Ocean margins: The missing term in oceanic element budgets?. <i>Eos</i> , 2011, 92, 217-218.	0.1	80
33	The role of riverine particulate material on the global cycles of the elements. <i>Applied Geochemistry</i> , 2011, 26, S365-S369.	1.4	62
34	Seawater redox variations during the deposition of the Kimmeridge Clay Formation, United Kingdom (Upper Jurassic): Evidence from molybdenum isotopes and trace metal ratios. <i>Paleoceanography</i> , 2010, 25, n/a-n/a.	3.0	33
35	Molybdenum isotope behaviour accompanying weathering and riverine transport in a basaltic terrain. <i>Earth and Planetary Science Letters</i> , 2010, 295, 104-114.	1.8	101
36	Quantitative Separation of Molybdenum and Rhenium from Geological Materials for Isotopic Determination by MC-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2009, 33, 219-229.	1.7	64

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37	Molybdenum isotope evidence for global ocean anoxia coupled with perturbations to the carbon cycle during the Early Jurassic. <i>Geology</i> , 2008, 36, 231.	2.0	216
38	The mid-Oxfordian (Late Jurassic) positive carbon-isotope excursion recognised from fossil wood in the British Isles. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 221, 343-357.	1.0	40
39	Using Geochemical Data to Understand Geological Processes H. Rollinson and V. Pease Cambridge University Press. pp346. Paperback price £49.99. ISBN 978-1-108-74584-0 https://doi.org/10.1017/9781108777834 . <i>Mineralogical Magazine</i> , 0, , 1-2.	0.6	0