Louis A Derry

List of Publications by Year
in descending order

87	8,509	53751 45	53190 85
papers	citations	h-index	g-index

89	89	89	7185
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Changing sources of nutrients during four million years of ecosystem development. Nature, 1999, 397, 491-497.	13.7	1,104
2	Sedimentary cycling and environmental change in the Late Proterozoic: Evidence from stable and radiogenic isotopes. Geochimica Et Cosmochimica Acta, 1992, 56, 1317-1329.	1.6	520
3	The chemical evolution of Precambrian seawater: Evidence from REEs in banded iron formations. Geochimica Et Cosmochimica Acta, 1990, 54, 2965-2977.	1.6	408
4	Biological control of terrestrial silica cycling and export fluxes to watersheds. Nature, 2005, 433, 728-731.	13.7	393
5	Mineral protection regulates long-term global preservation of natural organic carbon. Nature, 2019, 570, 228-231.	13.7	354
6	Organic carbon burial forcing of the carbon cycle from Himalayan erosion. Nature, 1997, 390, 65-67.	13.7	353
7	Neogene Himalayan weathering history and river87Sr86Sr: impact on the marine Sr record. Earth and Planetary Science Letters, 1996, 142, 59-74.	1.8	324
8	A burial diagenesis origin for the Ediacaran Shuramâ€“Wonoka carbon isotope anomaly. Earth and Planetary Science Letters, 2010, 294, 152-162.	1.8	322
9	Refractory element mobility in volcanic soils. Geology, 2000, 28, 683.	2.0	292
10	The strontium isotopic budget of Himalayan rivers in Nepal and Bangladesh. Geochimica Et Cosmochimica Acta, 1999, 63, 1905-1925.	1.6	253
11	Sr and C isotopes in Lower Cambrian carbonates from the Siberian craton: A paleoenvironmental record during the â€˜Cambrian explosionâ€™. Earth and Planetary Science Letters, 1994, 128, 671-681.	1.8	207
12	Accretion of Asian dust to Hawaiian soils: isotopic, elemental, and mineral mass balances. Geochimica Et Cosmochimica Acta, 2001, 65, 1971-1983.	1.6	196
13	Sr isotopic variations in Upper Proterozoic carbonates from Svalbard and East Greenland. Geochimica Et Cosmochimica Acta, 1989, 53, 2331-2339.	1.6	162
14	Changing sources of base cations during ecosystem development, Hawaiian Islands. Geology, 1998, 26, 1015.	2.0	162
15	Evolution of the Himalaya since Miocene time: isotopic and sedimentological evidence from the Bengal Fan. Geological Society Special Publication, 1993, 74, 603-621.	0.8	158
16	Reduced Himalayan sediment production 8 Myr ago despite an intensified monsoon. Nature, 1993, 364, 48-50.	13.7	154
17	Germanium-silicon fractionation in the weathering environment. Geochimica Et Cosmochimica Acta, 2002, 66, 1525-1537.	1.6	145
18	of organic carbon in the Bengal Fan: Source evolution and transport of C3 and C4 plant carbon to marine sediments. Geochimica Et Cosmochimica Acta, 1994, 58, 4809-4814.	1.6	132

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19	Temperature dependence of basalt weathering. Earth and Planetary Science Letters, 2016, 443, 59-69.	1.8	126
20	Erosion and the Rejuvenation of Weathering-derived Nutrient Supply in an Old Tropical Landscape. Ecosystems, 2003, 6, 762-772.	1.6	122
21	Causes and consequences of mid-Proterozoic anoxia. Geophysical Research Letters, 2015, 42, 8538-8546.	1.5	114
22	Multiple Î´13C excursions spanning the Cambrian explosion to the Botomian crisis in Siberia. Geology, 1994, 22, 455.	2.0	112
23	Sr isotopes as a tracer of weathering processes and dust inputs in a tropical granitoid watershed, Luquillo Mountains, Puerto Rico. Geochimica Et Cosmochimica Acta, 2009, 73, 25-43.	1.6	105
24	Degassing of metamorphic carbon dioxide from the Nepal Himalaya. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	101
25	Neogene growth of the sedimentary organic carbon reservoir. Paleoceanography, 1996, 11, 267-275.	3.0	100
26	Weathering versus atmospheric sources of strontium in ecosystems on young volcanic soils. Oecologia, 1999, 121, 255-259.	0.9	95
27	Chemical weathering, river geochemistry and atmospheric carbon fluxes from volcanic and ultramafic regions on Luzon Island, the Philippines. Geochimica Et Cosmochimica Acta, 2011, 75, 978-1002.	1.6	89
28	A carbon isotope reference scale for the Lower Cambrian succession in Siberia: report of IGCP Project 303. Geological Magazine, 1994, 131, 767-783.	0.9	86
29	Chemical weathering fluxes from volcanic islands and the importance of groundwater: The Hawaiian example. Earth and Planetary Science Letters, 2012, 339-340, 67-78.	1.8	80
30	Contributions from Earth's Atmosphere to Soil. Elements, 2007, 3, 333-338.	0.5	79
31	Changing sources of strontium to soils and ecosystems across the Hawaiian Islands. Chemical Geology, 2009, 267, 64-76.	1.4	77
32	Ca/Sr and 87Sr/86Sr ratios as tracers of Ca and Sr cycling in the Rio Icacos watershed, Luquillo Mountains, Puerto Rico. Chemical Geology, 2009, 267, 32-45.	1.4	74
33	The Late Oligocene-Early Miocene Himalayan belt Constraints deduced from isotopic compositions of Early Miocene turbidites in the Bengal Fan. Tectonophysics, 1996, 260, 109-118.	0.9	73
34	Decoupling of unpolluted temperate forests from rock nutrient sources revealed by natural 87Sr/86Sr and 84Sr tracer addition. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9639-9644.	3.3	68
35	Proposed initiative would study Earth's weathering engine. Eos, 2004, 85, 265.	0.1	67
36	On the significance of Î´13C correlations in ancient sediments. Earth and Planetary Science Letters, 2010, 296, 497-501.	1.8	67

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37	Quartz control of high germanium/silicon ratios in geothermal waters. Geology, 2002, 30, 1019.	2.0	66
38	Hydrothermal source of radiogenic Sr to Himalayan rivers. Geology, 2001, 29, 803.	2.0	63
39	Geochemical evolution of the <scp>C</scp>ritical <scp>Z</scp>one across variable time scales informs concentrationâ€discharge relationships: <scp>J</scp>emez <scp>R</scp>iver <scp>B</scp>asin <scp>C</scp>ritical <scp>Z</scp>one <scp>O</scp>bservatory. Water Resources Research, 2017, 53, 4169-4196.	1.7	57
40	The Nd and Sr isotopic evolution of Proterozoic seawater. Geophysical Research Letters, 1988, 15, 397-400.	1.5	56
41	Germaniumâ€“silicon fractionation in a tropical, granitic weathering environment. Geochimica Et Cosmochimica Acta, 2010, 74, 1294-1308.	1.6	56
42	Geothermal fluxes of alkalinity in the Narayani river system of central Nepal. Geochemistry, Geophysics, Geosystems, 2004, 5, .	1.0	55
43	Importance of atmospheric inputs and Fe-oxides in controlling soil uranium budgets and behavior along a Hawaiian chronosequence. Chemical Geology, 2007, 244, 691-707.	1.4	53
44	Pb scavenging from a freshwater lake by Mn oxides in heterogeneous surface coating materials. Water Research, 2003, 37, 1662-1666.	5.3	51
45	Neogene marine isotopic evolution and the erosion of Lesser Himalayan strata: Implications for Cenozoic tectonic history. Earth and Planetary Science Letters, 2015, 417, 142-150.	1.8	48
46	Concentrationâ€Discharge Relations in the Critical Zone: Implications for Resolving Critical Zone Structure, Function, and Evolution. Water Resources Research, 2017, 53, 8654-8659.	1.7	48
47	Subsoil organo-mineral associations under contrasting climate conditions. Geochimica Et Cosmochimica Acta, 2020, 270, 244-263.	1.6	46
48	The ratio of germanium to silicon in plant phytoliths: quantification of biological discrimination under controlled experimental conditions. Biogeochemistry, 2007, 86, 189-199.	1.7	45
49	Hydrothermal heat flow near the Main Central Thrust, central Nepal Himalaya. Earth and Planetary Science Letters, 2009, 286, 101-109.	1.8	40
50	CZ-tope at Susquehanna Shale Hills CZO: Synthesizing multiple isotope proxies to elucidate Critical Zone processes across timescales in a temperate forested landscape. Chemical Geology, 2016, 445, 103-119.	1.4	37
51	Himalayan Weathering and Erosion Fluxes: Climate and Tectonic Controls. , 1997, , 289-312.		37
52	Germanium/silicon ratios in the Copper River Basin, Alaska: Weathering and partitioning in periglacial versus glacial environments. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	35
53	Terrestrial paleorecords of Ge/Si cycling derived from lake diatoms. Chemical Geology, 2000, 168, 9-26.	1.4	32
54	Subcellular localization of silicon and germanium in grass root and leaf tissues by SIMS: evidence for differential and active transport. Biogeochemistry, 2011, 104, 237-249.	1.7	31

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55	Multiple sources of lead in soils from a Hawaiian chronosequence. Chemical Geology, 2004, 209, 215-231.	1.4	29
56	87Sr/86Sr, Ca/Sr, and Ge/Si ratios as tracers of solute sources and biogeochemical cycling at a temperate forested shale catchment, central Pennsylvania, USA. Chemical Geology, 2016, 445, 84-102.	1.4	28
57	Organic acids and high soil CO2 drive intense chemical weathering of Hawaiian basalts: Insights from reactive transport models. Geochimica Et Cosmochimica Acta, 2019, 249, 173-198.	1.6	28
58	Ge/Si and 87Sr/86Sr tracers of weathering reactions and hydrologic pathways in a tropical granitoid system. Journal of Geochemical Exploration, 2006, 88, 271-274.	1.5	23
59	Effects of Dynamic Topography on the Cenozoic Carbonate Compensation Depth. Geochemistry, Geophysics, Geosystems, 2018, 19, 1025-1034.	1.0	23
60	A Simple Predictive Tool for Lower Brahmaputra River Basin Monsoon Flooding. Earth Interactions, 2007, 11, 1-11.	0.7	20
61	Colloidal transport in the G ordon G ulch catchment of the B oulder C reek CZO and its effect on Câ€Q relationships for silicon. Water Resources Research, 2017, 53, 2368-2383.	1.7	18
62	Refractory element mobility in volcanic soils. Geology, 2000, 28, 683-686.	2.0	17
63	Persistence of old soil carbon under changing climate: The role of mineral-organic matter interactions. Chemical Geology, 2022, 587, 120629.	1.4	17
64	Thermal oxidation of carbon in organic matter rich volcanic soils: insights into SOC age differentiation and mineral stabilization. Biogeochemistry, 2019, 144, 291-304.	1.7	15
65	Variations of Mg isotope geochemistry in soils over a Hawaiian 4 Myr chronosequence. Geochimica Et Cosmochimica Acta, 2021, 292, 94-114.	1.6	14
66	Electronic data publication in geochemistry. Geochemistry, Geophysics, Geosystems, 2003, 4, .	1.0	11
67	Colloid Mobilization and Seasonal Variability in a Semiarid Headwater Stream. Journal of Environmental Quality, 2017, 46, 88-95.	1.0	11
68	Magnesium Isotope Fractionation During Arid Pedogenesis on the Island of Hawaii (USA). Procedia Earth and Planetary Science, 2014, 10, 243-248.	0.6	10
69	⁸⁷Sr/⁸⁶Sr in recent accumulations of calcium sulfate on landscapes of hyperarid settings: A bimodal altitudinal dependence for northern <scp>C</scp>hile (19.5Â°Sâ€“21.5Â°S). Geochemistry, Geophysics, Geosystems, 2015, 16, 4311-4328.	1.0	10
70	Ge/Si ratios point to increased contribution from deeper mineral weathering to streams after forest conversion to cropland. Applied Geochemistry, 2018, 96, 24-34.	1.4	10
71	A first look at Ge/Si partitioning during amorphous silica precipitation: Implications for Ge/Si as a tracer of fluid-silicate interactions. Geochimica Et Cosmochimica Acta, 2021, 297, 158-178.	1.6	10
72	BIODIVERSITY: An Island of Evolutionary Exuberance. Science, 2004, 304, 53-53.	6.0	9

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73	Elemental Speciation by Parallel Elemental and Molecular Mass Spectrometry and Peak Profile Matching. Analytical Chemistry, 2006, 78, 8445-8455.	3.2	9
74	Ge/Si ratios indicating hydrothermal and sulfide weathering input to rivers of the Eastern Tibetan Plateau and Mt. Baekdu. Chemical Geology, 2015, 410, 40-52.	1.4	9
75	ATMOSPHERIC SCIENCE: Fungi, Weathering, and the Emergence of Animals. Science, 2006, 311, 1386-1387.	6.0	8
76	A glacial hangover. Nature, 2009, 458, 417-418.	13.7	8
77	A model for germanium-silicon equilibrium fractionation in kaolinite. Geochimica Et Cosmochimica Acta, 2020, 288, 199-213.	1.6	7
78	Biological Cycling of Mineral Nutrients in a Temperate Forested Shale Catchment. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 3204-3215.	1.3	6
79	Dynamic Contributions of Stratified Groundwater to Streams Controls Seasonal Variations of Streamwater Transit Times. Water Resources Research, 2022, 58, .	1.7	6
80	Resiliency of Silica Export Signatures When Low Order Streams Are Subject to Storm Events. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	6
81	An intermediateâ€complexity model for simulating marine biogeochemistry in deep time: Validation against the modern global ocean. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	4
82	Validation of an intermediateâ€complexity model for simulating marine biogeochemistry under anoxic conditions in the modern Black Sea. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	3
83	Reflections on Earth surface research. Nature Reviews Earth & Environment, 2021, 2, 15-20.	12.2	3
84	The future low-temperature geochemical data-scape as envisioned by the U.S. geochemical community. Computers and Geosciences, 2021, 157, 104933.	2.0	3
85	â€œThe chemical evolution of Precambrian seawater: Evidence from REEs in banded iron formationsâ€• Geochimica Et Cosmochimica Acta, 1991, 55, 1181.	1.6	2
86	Electronic data publication in geochemistry: A plea for â€œfull disclosureâ€• Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	1.0	2
87	Appreciation of peer reviewers for 2014. Geochemistry, Geophysics, Geosystems, 2015, 16, 2473-2479.	1.0	0