

# Louis A Derry

## List of Publications by Year in descending order

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87  
papers

8,509  
citations

53751

45  
h-index

53190

85  
g-index

89  
all docs

89  
docs citations

89  
times ranked

7185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistence of old soil carbon under changing climate: The role of mineral-organic matter interactions. <i>Chemical Geology</i> , 2022, 587, 120629.	1.4	17
2	Dynamic Contributions of Stratified Groundwater to Streams Controls Seasonal Variations of Streamwater Transit Times. <i>Water Resources Research</i> , 2022, 58, .	1.7	6
3	Resiliency of Silica Export Signatures When Low Order Streams Are Subject to Storm Events. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	6
4	Reflections on Earth surface research. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 15-20.	12.2	3
5	Variations of Mg isotope geochemistry in soils over a Hawaiian 4 Myr chronosequence. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 292, 94-114.	1.6	14
6	A first look at Ge/Si partitioning during amorphous silica precipitation: Implications for Ge/Si as a tracer of fluid-silicate interactions. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 297, 158-178.	1.6	10
7	The future low-temperature geochemical data-scape as envisioned by the U.S. geochemical community. <i>Computers and Geosciences</i> , 2021, 157, 104933.	2.0	3
8	Subsoil organo-mineral associations under contrasting climate conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 270, 244-263.	1.6	46
9	A model for germanium-silicon equilibrium fractionation in kaolinite. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 288, 199-213.	1.6	7
10	Thermal oxidation of carbon in organic matter rich volcanic soils: insights into SOC age differentiation and mineral stabilization. <i>Biogeochemistry</i> , 2019, 144, 291-304.	1.7	15
11	Organic acids and high soil CO <sub>2</sub> drive intense chemical weathering of Hawaiian basalts: Insights from reactive transport models. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 249, 173-198.	1.6	28
12	Mineral protection regulates long-term global preservation of natural organic carbon. <i>Nature</i> , 2019, 570, 228-231.	13.7	354
13	Effects of Dynamic Topography on the Cenozoic Carbonate Compensation Depth. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1025-1034.	1.0	23
14	Biological Cycling of Mineral Nutrients in a Temperate Forested Shale Catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3204-3215.	1.3	6
15	Ge/Si ratios point to increased contribution from deeper mineral weathering to streams after forest conversion to cropland. <i>Applied Geochemistry</i> , 2018, 96, 24-34.	1.4	10
16	Colloidal transport in the Gordon Gulch catchment of the Boulder Creek CZO and its effect on C&Q relationships for silicon. <i>Water Resources Research</i> , 2017, 53, 2368-2383.	1.7	18
17	Geochemical evolution of the Critical Zone across variable time scales informs concentration&discharge relationships: Jemez River Basin Critical Zone Observatory. <i>Water Resources Research</i> , 2017, 53, 4169-4196.	1.7	57
18	Concentration&Discharge Relations in the Critical Zone: Implications for Resolving Critical Zone Structure, Function, and Evolution. <i>Water Resources Research</i> , 2017, 53, 8654-8659.	1.7	48

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19	Colloid Mobilization and Seasonal Variability in a Semiarid Headwater Stream. <i>Journal of Environmental Quality</i> , 2017, 46, 88-95.	1.0	11
20	Temperature dependence of basalt weathering. <i>Earth and Planetary Science Letters</i> , 2016, 443, 59-69.	1.8	126
21	$^{87}\text{Sr}/^{86}\text{Sr}$ , Ca/Sr, and Ge/Si ratios as tracers of solute sources and biogeochemical cycling at a temperate forested shale catchment, central Pennsylvania, USA. <i>Chemical Geology</i> , 2016, 445, 84-102.	1.4	28
22	CZ-tope at Susquehanna Shale Hills CZO: Synthesizing multiple isotope proxies to elucidate Critical Zone processes across timescales in a temperate forested landscape. <i>Chemical Geology</i> , 2016, 445, 103-119.	1.4	37
23	Causes and consequences of mid-Proterozoic anoxia. <i>Geophysical Research Letters</i> , 2015, 42, 8538-8546.	1.5	114
24	Appreciation of peer reviewers for 2014. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2473-2479.	1.0	0
25	$^{87}\text{Sr}/^{86}\text{Sr}$ in recent accumulations of calcium sulfate on landscapes of hyperarid settings: A bimodal altitudinal dependence for northern Chile (19.5°S–21.5°S). <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4311-4328.	1.0	10
26	Ge/Si ratios indicating hydrothermal and sulfide weathering input to rivers of the Eastern Tibetan Plateau and Mt. Baekdu. <i>Chemical Geology</i> , 2015, 410, 40-52.	1.4	9
27	Neogene marine isotopic evolution and the erosion of Lesser Himalayan strata: Implications for Cenozoic tectonic history. <i>Earth and Planetary Science Letters</i> , 2015, 417, 142-150.	1.8	48
28	Magnesium Isotope Fractionation During Arid Pedogenesis on the Island of Hawaii (USA). <i>Procedia Earth and Planetary Science</i> , 2014, 10, 243-248.	0.6	10
29	Chemical weathering fluxes from volcanic islands and the importance of groundwater: The Hawaiian example. <i>Earth and Planetary Science Letters</i> , 2012, 339-340, 67-78.	1.8	80
30	Chemical weathering, river geochemistry and atmospheric carbon fluxes from volcanic and ultramafic regions on Luzon Island, the Philippines. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 978-1002.	1.6	89
31	Subcellular localization of silicon and germanium in grass root and leaf tissues by SIMS: evidence for differential and active transport. <i>Biogeochemistry</i> , 2011, 104, 237-249.	1.7	31
32	An intermediate-complexity model for simulating marine biogeochemistry in deep time: Validation against the modern global ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	4
33	Validation of an intermediate-complexity model for simulating marine biogeochemistry under anoxic conditions in the modern Black Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	3
34	Germanium-silicon fractionation in a tropical, granitic weathering environment. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1294-1308.	1.6	56
35	A burial diagenesis origin for the Ediacaran Shuram-Wonoka carbon isotope anomaly. <i>Earth and Planetary Science Letters</i> , 2010, 294, 152-162.	1.8	322
36	On the significance of $\delta^{13}\text{C}$ correlations in ancient sediments. <i>Earth and Planetary Science Letters</i> , 2010, 296, 497-501.	1.8	67

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37	A glacial hangover. <i>Nature</i> , 2009, 458, 417-418.	13.7	8
38	Hydrothermal heat flow near the Main Central Thrust, central Nepal Himalaya. <i>Earth and Planetary Science Letters</i> , 2009, 286, 101-109.	1.8	40
39	Ca/Sr and $^{87}\text{Sr}/^{86}\text{Sr}$ ratios as tracers of Ca and Sr cycling in the Rio Icacos watershed, Luquillo Mountains, Puerto Rico. <i>Chemical Geology</i> , 2009, 267, 32-45.	1.4	74
40	Changing sources of strontium to soils and ecosystems across the Hawaiian Islands. <i>Chemical Geology</i> , 2009, 267, 64-76.	1.4	77
41	Sr isotopes as a tracer of weathering processes and dust inputs in a tropical granitoid watershed, Luquillo Mountains, Puerto Rico. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 25-43.	1.6	105
42	Degassing of metamorphic carbon dioxide from the Nepal Himalaya. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	101
43	A Simple Predictive Tool for Lower Brahmaputra River Basin Monsoon Flooding. <i>Earth Interactions</i> , 2007, 11, 1-11.	0.7	20
44	Importance of atmospheric inputs and Fe-oxides in controlling soil uranium budgets and behavior along a Hawaiian chronosequence. <i>Chemical Geology</i> , 2007, 244, 691-707.	1.4	53
45	Contributions from Earth's Atmosphere to Soil. <i>Elements</i> , 2007, 3, 333-338.	0.5	79
46	The ratio of germanium to silicon in plant phytoliths: quantification of biological discrimination under controlled experimental conditions. <i>Biogeochemistry</i> , 2007, 86, 189-199.	1.7	45
47	Elemental Speciation by Parallel Elemental and Molecular Mass Spectrometry and Peak Profile Matching. <i>Analytical Chemistry</i> , 2006, 78, 8445-8455.	3.2	9
48	Ge/Si and $^{87}\text{Sr}/^{86}\text{Sr}$ tracers of weathering reactions and hydrologic pathways in a tropical granitoid system. <i>Journal of Geochemical Exploration</i> , 2006, 88, 271-274.	1.5	23
49	ATMOSPHERIC SCIENCE: Fungi, Weathering, and the Emergence of Animals. <i>Science</i> , 2006, 311, 1386-1387.	6.0	8
50	Biological control of terrestrial silica cycling and export fluxes to watersheds. <i>Nature</i> , 2005, 433, 728-731.	13.7	393
51	BIODIVERSITY: An Island of Evolutionary Exuberance. <i>Science</i> , 2004, 304, 53-53.	6.0	9
52	Proposed initiative would study Earth's weathering engine. <i>Eos</i> , 2004, 85, 265.	0.1	67
53	Geothermal fluxes of alkalinity in the Narayani river system of central Nepal. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, .	1.0	55
54	Multiple sources of lead in soils from a Hawaiian chronosequence. <i>Chemical Geology</i> , 2004, 209, 215-231.	1.4	29

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55	Erosion and the Rejuvenation of Weathering-derived Nutrient Supply in an Old Tropical Landscape. <i>Ecosystems</i> , 2003, 6, 762-772.	1.6	122
56	Electronic data publication in geochemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	11
57	Germanium/silicon ratios in the Copper River Basin, Alaska: Weathering and partitioning in periglacial versus glacial environments. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	35
58	Pb scavenging from a freshwater lake by Mn oxides in heterogeneous surface coating materials. <i>Water Research</i> , 2003, 37, 1662-1666.	5.3	51
59	Decoupling of unpolluted temperate forests from rock nutrient sources revealed by natural <sup>87</sup> Sr/ <sup>86</sup> Sr and <sup>84</sup> Sr tracer addition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9639-9644.	3.3	68
60	Quartz control of high germanium/silicon ratios in geothermal waters. <i>Geology</i> , 2002, 30, 1019.	2.0	66
61	Germanium-silicon fractionation in the weathering environment. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1525-1537.	1.6	145
62	Electronic data publication in geochemistry: A plea for "full disclosure". <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	1.0	2
63	Accretion of Asian dust to Hawaiian soils: isotopic, elemental, and mineral mass balances. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1971-1983.	1.6	196
64	Hydrothermal source of radiogenic Sr to Himalayan rivers. <i>Geology</i> , 2001, 29, 803.	2.0	63
65	Refractory element mobility in volcanic soils. <i>Geology</i> , 2000, 28, 683.	2.0	292
66	Terrestrial paleorecords of Ge/Si cycling derived from lake diatoms. <i>Chemical Geology</i> , 2000, 168, 9-26.	1.4	32
67	Refractory element mobility in volcanic soils. <i>Geology</i> , 2000, 28, 683-686.	2.0	17
68	Changing sources of nutrients during four million years of ecosystem development. <i>Nature</i> , 1999, 397, 491-497.	13.7	1,104
69	Weathering versus atmospheric sources of strontium in ecosystems on young volcanic soils. <i>Oecologia</i> , 1999, 121, 255-259.	0.9	95
70	The strontium isotopic budget of Himalayan rivers in Nepal and Bangladesh. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 1905-1925.	1.6	253
71	Changing sources of base cations during ecosystem development, Hawaiian Islands. <i>Geology</i> , 1998, 26, 1015.	2.0	162
72	Organic carbon burial forcing of the carbon cycle from Himalayan erosion. <i>Nature</i> , 1997, 390, 65-67.	13.7	353

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73	Himalayan Weathering and Erosion Fluxes: Climate and Tectonic Controls. , 1997, , 289-312.		37
74	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
75	Neogene Himalayan weathering history and river $^{87}\text{Sr}/^{86}\text{Sr}$ : impact on the marine Sr record. Earth and Planetary Science Letters, 1996, 142, 59-74.	1.8	324
76	Neogene growth of the sedimentary organic carbon reservoir. Paleoceanography, 1996, 11, 267-275.	3.0	100
77	Multiple $\delta^{13}\text{C}$ excursions spanning the Cambrian explosion to the Botomian crisis in Siberia. Geology, 1994, 22, 455.	2.0	112
78	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
79	of organic carbon in the Bengal Fan: Source evolution and transport of $\text{C}_3$ and $\text{C}_4$ plant carbon to marine sediments. Geochimica Et Cosmochimica Acta, 1994, 58, 4809-4814.	1.6	132
80	Sr and C isotopes in Lower Cambrian carbonates from the Siberian craton: A paleoenvironmental record during the "Cambrian explosion". Earth and Planetary Science Letters, 1994, 128, 671-681.	1.8	207
81	Reduced Himalayan sediment production 8 Myr ago despite an intensified monsoon. Nature, 1993, 364, 48-50.	13.7	154
82	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
83	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
84	"The chemical evolution of Precambrian seawater: Evidence from REEs in banded iron formations". Geochimica Et Cosmochimica Acta, 1991, 55, 1181.	1.6	2
85	The chemical evolution of Precambrian seawater: Evidence from REEs in banded iron formations. Geochimica Et Cosmochimica Acta, 1990, 54, 2965-2977.	1.6	408
86	Sr isotopic variations in Upper Proterozoic carbonates from Svalbard and East Greenland. Geochimica Et Cosmochimica Acta, 1989, 53, 2331-2339.	1.6	162
87	The Nd and Sr isotopic evolution of Proterozoic seawater. Geophysical Research Letters, 1988, 15, 397-400.	1.5	56