

Craig C Lundstrom

List of Publications by Citations

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76
papers

3,010
citations

34
h-index

53
g-index

79
ext. papers

3,371
ext. citations

6.9
avg, IF

5.24
L-index

#	Paper	IF	Citations
76	Isotope fractionation in silicate melts by thermal diffusion. <i>Nature</i> , 2010 , 464, 396-400	50.4	144
75	Observations of Li isotopic variations in the Trinity Ophiolite: Evidence for isotopic fractionation by diffusion during mantle melting. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 735-751	5.5	142
74	Iron and magnesium isotopic compositions of peridotite xenoliths from Eastern China. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 3318-3334	5.5	134
73	Anatomically modern human in Southeast Asia (Laos) by 46 ka. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 14375-80	11.5	131
72	Mantle Melting and Basalt Extraction by Equilibrium Porous Flow. <i>Science</i> , 1995 , 270, 1958-1961	33.3	123
71	An Inter-Laboratory Assessment of the Thorium Isotopic Composition of Synthetic and Rock Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2008 , 32, 65-91		122
70	Giant Kiruna-type deposits form by efficient flotation of magmatic magnetite suspensions. <i>Geology</i> , 2015 , 43, 591-594	5	121
69	The major ion, $\delta^{44}\text{Ca}$, $\delta^{42}\text{Ca}$, and $\delta^{24}\text{Mg}$ geochemistry of granite weathering at pH = 1 and T = 25 °C: power-law processes and the relative reactivity of minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 6004-6026	5.5	104
68	Uranium isotopic fractionation factors during U(VI) reduction by bacterial isolates. <i>Geochimica Et Cosmochimica Acta</i> , 2014 , 78, 100-113	5.5	89
67	Magnesium isotopic composition of igneous rock standards measured by MC-ICP-MS. <i>Chemical Geology</i> , 2009 , 268, 15-23	4.2	89
66	Variations in $^{238}\text{U}/^{235}\text{U}$ in uranium ore deposits: Isotopic signatures of the U reduction process?. <i>Geology</i> , 2009 , 37, 611-614	5	86
65	U-series disequilibria in volcanic rocks from the Canary Islands: Plume versus lithospheric melting. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 4153-4177	5.5	85
64	Uranium $^{238}\text{U}/^{235}\text{U}$ isotope ratios as indicators of reduction: results from an in situ biostimulation experiment at Rifle, Colorado, U.S.A. <i>Environmental Science & Technology</i> , 2010 , 44, 5927-33	10.3	81
63	Modification of the Western Gondwana craton by plume-lithosphere interaction. <i>Nature Geoscience</i> , 2018 , 11, 203-210	18.3	61
62	Behavior of Mg isotopes during dedolomitization in the Madison Aquifer, South Dakota. <i>Earth and Planetary Science Letters</i> , 2010 , 297, 446-452	5.3	60
61	Pressure-induced magnetic transition and sound velocities of Fe ₃ C: Implications for carbon in the Earth's inner core. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	58
60	Fe ^δ stable isotope pairs elucidate a high-temperature origin of Chilean iron oxide-apatite deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 177, 94-104	5.5	56

59	Isotope fractionation during oxidation of tetravalent uranium by dissolved oxygen. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 150, 160-170	5.5	56
58	Rapid diffusive infiltration of sodium into partially molten peridotite. <i>Nature</i> , 2000 , 403, 527-30	50.4	54
57	Natural and experimental constraints on formation of the continental crust based on niobium-tantalum fractionation. <i>International Geology Review</i> , 2009 , 51, 473-501	2.3	51
56	Coupled iron, sulfur and carbon isotope evidences for arsenic enrichment in groundwater. <i>Journal of Hydrology</i> , 2014 , 519, 414-422	6	50
55	Silicic Magmatism and the Volcanic-Plutonic Connection. <i>Elements</i> , 2016 , 12, 91-96	3.8	48
54	Experimentally determined uranium isotope fractionation during reduction of hexavalent U by bacteria and zero valent iron. <i>Environmental Science & Technology</i> , 2006 , 40, 6943-8	10.3	48
53	Hypothesis for the origin of convergent margin granitoids and Earth's continental crust by thermal migration zone refining. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 5709-5729	5.5	46
52	Models of U-series disequilibria generation in MORB: the effects of two scales of melt porosity. <i>Physics of the Earth and Planetary Interiors</i> , 2000 , 121, 189-204	2.3	46
51	Fe and Si isotope variations at Cedar Butte volcano; insight into magmatic differentiation. <i>Earth and Planetary Science Letters</i> , 2014 , 405, 169-179	5.3	44
50	Iron and Oxygen Isotope Signatures of the Pea Ridge and Pilot Knob Magnetite-Apatite Deposits, Southeast Missouri, USA. <i>Economic Geology</i> , 2016 , 111, 2033-2044	4.3	40
49	No measurable changes in $(^{238}\text{U})/(^{235}\text{U})$ due to desorption-adsorption of U(VI) from groundwater at the Rifle, Colorado, integrated field research challenge site. <i>Environmental Science & Technology</i> , 2013 , 47, 2535-41	10.3	40
48	Isotope fractionation by thermal diffusion in silicate melts. <i>Physical Review Letters</i> , 2012 , 108, 065901	7.4	39
47	Trace element partitioning between high-An plagioclase and basaltic to basaltic andesite melt at 1 atmosphere pressure. <i>Lithos</i> , 2010 , 118, 82-94	2.9	39
46	Geochemistry of speleothem records from southern Illinois: Development of $(^{234}\text{U})/(^{238}\text{U})$ as a proxy for paleoprecipitation. <i>Chemical Geology</i> , 2005 , 221, 1-20	4.2	37
45	Uranium-series Disequilibria in Mid-ocean Ridge Basalts: Observations and Models of Basalt Genesis. <i>Reviews in Mineralogy and Geochemistry</i> , 2003 , 52, 175-214	7.1	37
44	Plume-edge interaction studied at the Galapagos spreading center: Evidence from ^{226}Ra - ^{230}Th - ^{238}U and ^{231}Pa - ^{235}U isotopic disequilibria. <i>Earth and Planetary Science Letters</i> , 2005 , 234, 165-187	5.3	35
43	Bomb radiocarbon and lead - radium disequilibria in otoliths of bocaccio rockfish (<i>Sebastes paucispinis</i>): a determination of age and longevity for a difficult-to-age fish. <i>Marine and Freshwater Research</i> , 2005 , 56, 517	2.2	34
42	Uranium Isotopic Fractionation Induced by U(VI) Adsorption onto Common Aquifer Minerals. <i>Environmental Science & Technology</i> , 2016 , 50, 12232-12240	10.3	33

41	An experimental investigation of the diffusive infiltration of alkalis into partially molten peridotite: Implications for mantle melting processes. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4, n/a-n/a	3.6	33
40	Climate change in southern Illinois, USA, based on the age and $\delta^{13}\text{C}$ of organic matter in cave sediments. <i>Quaternary Research</i> , 2004 , 61, 301-313	1.9	29
39	Time-scales for magmatic differentiation at the Snæfellsjökull central volcano, western Iceland: Constraints from U-Th-Pa disequilibria in post-glacial lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 1120-1144	5.5	27
38	Application of an ion-exchange separation technique and thermal ionization mass spectrometry to ^{226}Ra determination in otoliths for radiometric age determination of long-lived fishes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999 , 56, 1329-1338	2.4	26
37	Age estimation and lead-radium dating of Antarctic toothfish (<i>Dissostichus mawsoni</i>) in the Ross Sea. <i>Polar Biology</i> , 2011 , 34, 329-338	2	25
36	Evaluation of the efficacy of spatiotemporal Pb isoscapes for provenancing of human remains. <i>Forensic Science International</i> , 2016 , 261, 83-92	2.6	25
35	Pathways of arsenic from sediments to groundwater in the hyporheic zone: Evidence from an iron isotope study. <i>Journal of Hydrology</i> , 2014 , 511, 509-517	6	24
34	^{231}Pa excesses in arc volcanic rocks: Constraint on melting rates at convergent margins. <i>Geology</i> , 2007 , 35, 1007	5	24
33	U-Th-Pa disequilibria and the time scale of fluid transfer and andesite differentiation at Arenal volcano, Costa Rica (1968-2003). <i>Journal of Volcanology and Geothermal Research</i> , 2006 , 157, 147-165	2.8	23
32	Low temperature equilibrium isotope fractionation and isotope exchange kinetics between U(IV) and U(VI). <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 158, 262-275	5.5	22
31	Age validation of canary rockfish (<i>Sebastes pinniger</i>) using two independent otolith techniques: lead-radium and bomb radiocarbon dating. <i>Marine and Freshwater Research</i> , 2007 , 58, 531	2.2	22
30	Diffusion-reaction in a thermal gradient: Implications for the genesis of anorthitic plagioclase, high alumina basalt and igneous mineral layering. <i>Earth and Planetary Science Letters</i> , 2005 , 237, 829-854	5.3	21
29	Investigating the origin of anorthitic plagioclase through a combination of experiments and natural observations. <i>Journal of Volcanology and Geothermal Research</i> , 2006 , 157, 202-221	2.8	18
28	Iron isotopic evolution during fractional crystallization of the uppermost Bushveld Complex layered mafic intrusion. <i>Geochemistry, Geophysics, Geosystems</i> , 2017 , 18, 956-972	3.6	17
27	Formation of the Mantoverde iron oxide-copper-gold (IOCG) deposit, Chile: insights from Fe and O stable isotopes and comparisons with iron oxide-apatite (IOA) deposits. <i>Mineralium Deposita</i> , 2020 , 55, 1489-1504	4.8	16
26	U-series disequilibria in Kickapoo Jenny submarine volcano lavas: A new view of time-scales of magmatism in convergent margins. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 195-212	5.5	16
25	Major Earthquakes Recorded by Speleothems in Midwestern U.S. Caves. <i>Bulletin of the Seismological Society of America</i> , 2009 , 99, 2147-2154	2.3	14
24	A Mid-ate Quaternary loess-paleosol record in Simmons Farm in southern Illinois, USA. <i>Quaternary Science Reviews</i> , 2009 , 28, 93-106	3.9	14

23	Field Application of U/U Measurements To Detect Reoxidation and Mobilization of U(IV). <i>Environmental Science & Technology</i> , 2018 , 52, 3422-3430	10.3	13
22	Microbial U Isotope Fractionation Depends on the U(VI) Reduction Rate. <i>Environmental Science & Technology</i> , 2020 , 54, 2295-2303	10.3	12
21	The effect of assimilation, fractional crystallization, and ageing on U-series disequilibria in subduction zone lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 4136-4145	5.5	12
20	Mid-ocean ridge basalt generation along the slow-spreading, South Mid-Atlantic Ridge (5°1'S): Inferences from ²³⁸ U/ ²³⁰ Th/ ²²⁶ Ra disequilibria. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 169, 152-166	5.5	11
19	The role of thermal migration and low-temperature melt in granitoid formation: can granite form without rhyolitic melt?. <i>International Geology Review</i> , 2016 , 58, 371-388	2.3	10
18	Lead - radium dating provides a framework for coordinating age estimation of Patagonian toothfish (<i>Dissostichus eleginoides</i>) between fishing areas. <i>Marine and Freshwater Research</i> , 2011 , 62, 781	2.2	10
17	Phase equilibrium experiments at 0.5 GPa and 1100±300 °C on a basaltic andesite from Arenal volcano, Costa Rica. <i>Journal of Volcanology and Geothermal Research</i> , 2006 , 157, 222-235	2.8	10
16	Multiple thermo-erosional episodes during the past six millennia: Implications for the response of Arctic permafrost to climate change. <i>Geology</i> , 2016 , 44, 439-442	5	10
15	Huang et al. reply. <i>Nature</i> , 2011 , 472, E2-E3	50.4	9
14	Spatially controlled Fe and Si isotope variations: an alternative view on the formation of the Torres del Paine pluton. <i>Contributions To Mineralogy and Petrology</i> , 2016 , 171, 1	3.5	8
13	Possible Earthquakes Recorded in Stalagmites from a Cave in South-Central Indiana. <i>Bulletin of the Seismological Society of America</i> , 2016 , 106, 2364-2375	2.3	6
12	Biblical bronze coins: new insights into their timing and attribution using copper and lead isotopes. <i>Archaeological and Anthropological Sciences</i> , 2013 , 5, 287-298	1.8	6
11	The effects of climate change on speleogenesis and karstification since the penultimate glaciation in southwestern Illinois sinkhole plain. <i>Carbonates and Evaporites</i> , 2012 , 27, 87-94	1.3	5
10	Chemical and physical weathering in south Patagonian rivers: A combined Sr/Be isotope approach. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 101, 173-190	5.5	5
9	MC-ICP-MS analyses of tin isotopes in Roman-era bronze coins reveal temporal and spatial variation. <i>Archaeometry</i> , 2019 , 61, 891-905	1.6	5
8	Red Earth, Green Glass, and Compositional Data: A New Procedure for Solid-State Elemental Characterization, Source Discrimination, and Provenience Analysis of Ochres. <i>Journal of Archaeological Method and Theory</i> , 2020 , 27, 930-970	2.8	4
7	Iron Stable Isotopes in Bulk Soil and Sequential Extracted Fractions Trace Fe Redox Cycling in Paddy Soils. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 8143-8150	5.7	3
6	²³¹ Pa systematics in postglacial volcanic rocks from Iceland. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 185, 129-140	5.5	3

5	Continuously Changing Quartz-Albite Saturated Melt Compositions to 330 °C With Application to Heat Flow and Geochemistry of the Ocean Crust. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB017654	3.6	2
4	Formation of the PGE Reef Horizon in the Sonju Lake Layered Mafic Intrusion by Thermal Migration Zone Refining. <i>Economic Geology</i> , 2014 , 109, 1257-1269	4.3	2
3	U-series disequilibria of trachyandesites from minor volcanic centers in the Central Andes. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 215, 92-104	5.5	2
2	Forensic isoscapes based on intra-individual temporal variation of O and Pb/Pb in human teeth. <i>Forensic Sciences Research</i> , 2020 , 6, 42-52	3.6	2
1	A self-consistent top-down model for differentiation in bimodal suites: application to the Sonju Lake Intrusion-Binland granite system (MN). <i>International Geology Review</i> , 2017 , 59, 1451-1470	2.3	1