

# Craig C Lundstrom

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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> , <b>2020</b> , 68, 8143-8150	5.7	3
75	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> , <b>2020</b> , 27, 930-970	2.8	4
74	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> , <b>2020</b> , 125, e2019JB017654	3.6	2
73	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> , <b>2020</b> , 55, 1489-1504	4.8	16
72	Microbial U Isotope Fractionation Depends on the U(VI) Reduction Rate. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 2295-2303	10.3	12
71	Forensic isoscapes based on intra-individual temporal variation of O and Pb/Pb in human teeth. <i>Forensic Sciences Research</i> , <b>2020</b> , 6, 42-52	3.6	2
70	MC-ICP-MS analyses of tin isotopes in Roman-era bronze coins reveal temporal and spatial variation. <i>Archaeometry</i> , <b>2019</b> , 61, 891-905	1.6	5
69	Field Application of U/U Measurements To Detect Reoxidation and Mobilization of U(IV). <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 3422-3430	10.3	13
68	Modification of the Western Gondwana craton by plume-lithosphere interaction. <i>Nature Geoscience</i> , <b>2018</b> , 11, 203-210	18.3	61
67	A self-consistent top-down model for differentiation in bimodal suites: application to the Sonju Lake Intrusion-Island granite system (MN). <i>International Geology Review</i> , <b>2017</b> , 59, 1451-1470	2.3	1
66	Iron isotopic evolution during fractional crystallization of the uppermost Bushveld Complex layered mafic intrusion. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 956-972	3.6	17
65	U-series disequilibria of trachyandesites from minor volcanic centers in the Central Andes. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 215, 92-104	5.5	2
64	Iron and Oxygen Isotope Signatures of the Pea Ridge and Pilot Knob Magnetite-Apatite Deposits, Southeast Missouri, USA. <i>Economic Geology</i> , <b>2016</b> , 111, 2033-2044	4.3	40
63	Possible Earthquakes Recorded in Stalagmites from a Cave in South-Central Indiana. <i>Bulletin of the Seismological Society of America</i> , <b>2016</b> , 106, 2364-2375	2.3	6
62	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> , <b>2016</b> , 171, 1	3.5	8
61	Uranium Isotopic Fractionation Induced by U(VI) Adsorption onto Common Aquifer Minerals. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 12232-12240	10.3	33
60	Silicic Magmatism and the Volcanic-Plutonic Connection. <i>Elements</i> , <b>2016</b> , 12, 91-96	3.8	48

59	Fe-D stable isotope pairs elucidate a high-temperature origin of Chilean iron oxide-apatite deposits. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 177, 94-104	5.5	56
58	The role of thermal migration and low-temperature melt in granitoid formation: can granite form without rhyolitic melt?. <i>International Geology Review</i> , <b>2016</b> , 58, 371-388	2.3	10
57	<sup>231</sup> Pa systematics in postglacial volcanic rocks from Iceland. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 185, 129-140	5.5	3
56	Evaluation of the efficacy of spatiotemporal Pb isoscapes for provenancing of human remains. <i>Forensic Science International</i> , <b>2016</b> , 261, 83-92	2.6	25
55	Multiple thermo-erosional episodes during the past six millennia: Implications for the response of Arctic permafrost to climate change. <i>Geology</i> , <b>2016</b> , 44, 439-442	5	10
54	Low temperature equilibrium isotope fractionation and isotope exchange kinetics between U(IV) and U(VI). <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 158, 262-275	5.5	22
53	Mid-ocean ridge basalt generation along the slow-spreading, South Mid-Atlantic Ridge (50°1'S): Inferences from <sup>238</sup> U/ <sup>230</sup> Th/ <sup>226</sup> Ra disequilibria. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 169, 152-166	5.5	11
52	Giant Kiruna-type deposits form by efficient flotation of magmatic magnetite suspensions. <i>Geology</i> , <b>2015</b> , 43, 591-594	5	121
51	Isotope fractionation during oxidation of tetravalent uranium by dissolved oxygen. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 150, 160-170	5.5	56
50	Formation of the PGE Reef Horizon in the Sonju Lake Layered Mafic Intrusion by Thermal Migration Zone Refining. <i>Economic Geology</i> , <b>2014</b> , 109, 1257-1269	4.3	2
49	Coupled iron, sulfur and carbon isotope evidences for arsenic enrichment in groundwater. <i>Journal of Hydrology</i> , <b>2014</b> , 519, 414-422	6	50
48	Uranium isotopic fractionation factors during U(VI) reduction by bacterial isolates. <i>Geochimica Et Cosmochimica Acta</i> , <b>2014</b> , 136, 100-113	5.5	89
47	Fe and Si isotope variations at Cedar Butte volcano; insight into magmatic differentiation. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 405, 169-179	5.3	44
46	Pathways of arsenic from sediments to groundwater in the hyporheic zone: Evidence from an iron isotope study. <i>Journal of Hydrology</i> , <b>2014</b> , 511, 509-517	6	24
45	Biblical bronze coins: new insights into their timing and attribution using copper and lead isotopes. <i>Archaeological and Anthropological Sciences</i> , <b>2013</b> , 5, 287-298	1.8	6
44	Chemical and physical weathering in south Patagonian rivers: A combined Sr/Be isotope approach. <i>Geochimica Et Cosmochimica Acta</i> , <b>2013</b> , 101, 173-190	5.5	5
43	No measurable changes in ( <sup>238</sup> U)/( <sup>235</sup> U) due to desorption-adsorption of U(VI) from groundwater at the Rifle, Colorado, integrated field research challenge site. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 2535-41	10.3	40
42	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> , <b>2012</b> , 109, 14375-80	11.5	131

41	Isotope fractionation by thermal diffusion in silicate melts. <i>Physical Review Letters</i> , <b>2012</b> , 108, 065901	7.4	39
40	The effects of climate change on speleogenesis and karstification since the penultimate glaciation in southwestern Illinois sinkhole plain. <i>Carbonates and Evaporites</i> , <b>2012</b> , 27, 87-94	1.3	5
39	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> , <b>2011</b> , 62, 781	2.2	10
38	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> , <b>2011</b> , 75, 195-212	5.5	16
37	Iron and magnesium isotopic compositions of peridotite xenoliths from Eastern China. <i>Geochimica Et Cosmochimica Acta</i> , <b>2011</b> , 75, 3318-3334	5.5	134
36	The major ion, $\delta^{44}/^{40}\text{Ca}$ , $\delta^{44}/^{42}\text{Ca}$ , and $\delta^{26}/^{24}\text{Mg}$ 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> , <b>2011</b> , 75, 6004-6026	5.5	104
35	Huang et al. reply. <i>Nature</i> , <b>2011</b> , 472, E2-E3	50.4	9
34	Age estimation and lead-radium dating of Antarctic toothfish ( <i>Dissostichus mawsoni</i> ) in the Ross Sea. <i>Polar Biology</i> , <b>2011</b> , 34, 329-338	2	25
33	Isotope fractionation in silicate melts by thermal diffusion. <i>Nature</i> , <b>2010</b> , 464, 396-400	50.4	144
32	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 &amp; Technology</i> , <b>2010</b> , 44, 5927-33	10.3	81
31	Behavior of Mg isotopes during dedolomitization in the Madison Aquifer, South Dakota. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 297, 446-452	5.3	60
30	Trace element partitioning between high-An plagioclase and basaltic to basaltic andesite melt at 1 atmosphere pressure. <i>Lithos</i> , <b>2010</b> , 118, 82-94	2.9	39
29	Major Earthquakes Recorded by Speleothems in Midwestern U.S. Caves. <i>Bulletin of the Seismological Society of America</i> , <b>2009</b> , 99, 2147-2154	2.3	14
28	Variations in $^{238}\text{U}/^{235}\text{U}$ in uranium ore deposits: Isotopic signatures of the U reduction process?. <i>Geology</i> , <b>2009</b> , 37, 611-614	5	86
27	Magnesium isotopic composition of igneous rock standards measured by MC-ICP-MS. <i>Chemical Geology</i> , <b>2009</b> , 268, 15-23	4.2	89
26	Time-scales for magmatic differentiation at the Snaefellsjökull central volcano, western Iceland: Constraints from $\text{U}^{238}/\text{Th}^{232}$ disequilibria in post-glacial lavas. <i>Geochimica Et Cosmochimica Acta</i> , <b>2009</b> , 73, 1120-1144	5.5	27
25	Hypothesis for the origin of convergent margin granitoids and Earth's continental crust by thermal migration zone refining. <i>Geochimica Et Cosmochimica Acta</i> , <b>2009</b> , 73, 5709-5729	5.5	46
24	A Mid-ate Quaternary loess-paleosol record in Simmons Farm in southern Illinois, USA. <i>Quaternary Science Reviews</i> , <b>2009</b> , 28, 93-106	3.9	14

23	Natural and experimental constraints on formation of the continental crust based on niobium-tantalum fractionation. <i>International Geology Review</i> , <b>2009</b> , 51, 473-501	2.3	51
22	An Inter-Laboratory Assessment of the Thorium Isotopic Composition of Synthetic and Rock Reference Materials. <i>Geostandards and Geoanalytical Research</i> , <b>2008</b> , 32, 65-91		122
21	The effect of assimilation, fractional crystallization, and ageing on U-series disequilibria in subduction zone lavas. <i>Geochimica Et Cosmochimica Acta</i> , <b>2008</b> , 72, 4136-4145	5.5	12
20	Pressure-induced magnetic transition and sound velocities of Fe <sub>3</sub> C: Implications for carbon in the Earth's inner core. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	58
19	<sup>231</sup> Pa excesses in arc volcanic rocks: Constraint on melting rates at convergent margins. <i>Geology</i> , <b>2007</b> , 35, 1007	5	24
18	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> , <b>2007</b> , 58, 531	2.2	22
17	U-Th-Ra 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> , <b>2006</b> , 157, 147-165	2.8	23
16	Investigating the origin of anorthitic plagioclase through a combination of experiments and natural observations. <i>Journal of Volcanology and Geothermal Research</i> , <b>2006</b> , 157, 202-221	2.8	18
15	Phase equilibrium experiments at 0.5 GPa and 1100-1300 °C on a basaltic andesite from Arenal volcano, Costa Rica. <i>Journal of Volcanology and Geothermal Research</i> , <b>2006</b> , 157, 222-235	2.8	10
14	Experimentally determined uranium isotope fractionation during reduction of hexavalent U by bacteria and zero valent iron. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 6943-8	10.3	48
13	Plume-ridge interaction studied at the Galápagos spreading center: Evidence from <sup>226</sup> Ra- <sup>230</sup> Th- <sup>238</sup> U and <sup>231</sup> Pa- <sup>235</sup> U isotopic disequilibria. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 234, 165-187	5.3	35
12	Observations of Li isotopic variations in the Trinity Ophiolite: Evidence for isotopic fractionation by diffusion during mantle melting. <i>Geochimica Et Cosmochimica Acta</i> , <b>2005</b> , 69, 735-751	5.5	142
11	Geochemistry of speleothem records from southern Illinois: Development of ( <sup>234</sup> U)/( <sup>238</sup> U) as a proxy for paleoprecipitation. <i>Chemical Geology</i> , <b>2005</b> , 221, 1-20	4.2	37
10	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> , <b>2005</b> , 237, 829-854	5.3	21
9	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> , <b>2005</b> , 56, 517	2.2	34
8	Climate change in southern Illinois, USA, based on the age and <sup>13</sup> C of organic matter in cave sediments. <i>Quaternary Research</i> , <b>2004</b> , 61, 301-313	1.9	29
7	An experimental investigation of the diffusive infiltration of alkalis into partially molten peridotite: Implications for mantle melting processes. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2003</b> , 4, n/a-n/a	3.6	33
6	U-series disequilibria in volcanic rocks from the Canary Islands: Plume versus lithospheric melting. <i>Geochimica Et Cosmochimica Acta</i> , <b>2003</b> , 67, 4153-4177	5.5	85

5	Uranium-series Disequilibria in Mid-ocean Ridge Basalts: Observations and Models of Basalt Genesis. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2003</b> , 52, 175-214	7.1	37
4	Rapid diffusive infiltration of sodium into partially molten peridotite. <i>Nature</i> , <b>2000</b> , 403, 527-30	50.4	54
3	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> , <b>2000</b> , 121, 189-204	2.3	46
2	Application of an ion-exchange separation technique and thermal ionization mass spectrometry to <sup>226</sup> Ra determination in otoliths for radiometric age determination of long-lived fishes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>1999</b> , 56, 1329-1338	2.4	26
1	Mantle Melting and Basalt Extraction by Equilibrium Porous Flow. <i>Science</i> , <b>1995</b> , 270, 1958-1961	33.3	123