

# Craig C Lundstrom

## List of Publications by Year in descending order

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77  
papers

3,767  
citations

101543

36  
h-index

128289

60  
g-index

79  
all docs

79  
docs citations

79  
times ranked

3435  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotope fractionation in silicate melts by thermal diffusion. <i>Nature</i> , 2010, 464, 396-400.	27.8	185
2	Giant Kiruna-type deposits form by efficient flotation of magmatic magnetite suspensions. <i>Geology</i> , 2015, 43, 591-594.	4.4	177
3	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.	3.9	169
4	Iron and magnesium isotopic compositions of peridotite xenoliths from Eastern China. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3318-3334.	3.9	166
5	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, 14375-14380.	7.1	163
6	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.	1.9	130
7	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> , 2011, 75, 6004-6026.	3.9	130
8	Mantle Melting and Basalt Extraction by Equilibrium Porous Flow. <i>Science</i> , 1995, 270, 1958-1961.	12.6	129
9	Modification of the Western Gondwana craton by plume-lithosphere interaction. <i>Nature Geoscience</i> , 2018, 11, 203-210.	12.9	115
10	Uranium isotopic fractionation factors during U(VI) reduction by bacterial isolates. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 136, 100-113.	3.9	112
11	Magnesium isotopic composition of igneous rock standards measured by MC-ICP-MS. <i>Chemical Geology</i> , 2009, 268, 15-23.	3.3	100
12	U-series disequilibria in volcanic rocks from the Canary Islands: Plume versus lithospheric melting. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4153-4177.	3.9	99
13	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.	4.4	95
14	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> , 2010, 44, 5927-5933.	10.0	95
15	Fe-O stable isotope pairs elucidate a high-temperature origin of Chilean iron oxide-apatite deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 177, 94-104.	3.9	82
16	Behavior of Mg isotopes during dedolomitization in the Madison Aquifer, South Dakota. <i>Earth and Planetary Science Letters</i> , 2010, 297, 446-452.	4.4	81
17	Pressure-induced magnetic transition and sound velocities of $\text{Fe}_3\text{C}$ : Implications for carbon in the Earth's inner core. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	70
18	Isotope fractionation during oxidation of tetravalent uranium by dissolved oxygen. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 150, 160-170.	3.9	68

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19	Coupled iron, sulfur and carbon isotope evidences for arsenic enrichment in groundwater. <i>Journal of Hydrology</i> , 2014, 519, 414-422.	5.4	67
20	Silicic Magmatism and the Volcanic-Plutonic Connection. <i>Elements</i> , 2016, 12, 91-96.	0.5	66
21	Natural and experimental constraints on formation of the continental crust based on niobium-tantalum fractionation. <i>International Geology Review</i> , 2009, 51, 473-501.	2.1	65
22	Fe and Si isotope variations at Cedar Butte volcano; insight into magmatic differentiation. <i>Earth and Planetary Science Letters</i> , 2014, 405, 169-179.	4.4	59
23	Rapid diffusive infiltration of sodium into partially molten peridotite. <i>Nature</i> , 2000, 403, 527-530.	27.8	58
24	Experimentally Determined Uranium Isotope Fractionation During Reduction of Hexavalent U by Bacteria and Zero Valent Iron. <i>Environmental Science &amp; Technology</i> , 2006, 40, 6943-6948.	10.0	57
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> , 2009, 73, 5709-5729.	3.9	55
26	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.	1.9	52
27	Trace element partitioning between high-An plagioclase and basaltic to basaltic andesite melt at 1 atmosphere pressure. <i>Lithos</i> , 2010, 118, 82-94.	1.4	52
28	Isotope Fractionation by Thermal Diffusion in Silicate Melts. <i>Physical Review Letters</i> , 2012, 108, 065901.	7.8	51
29	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.	3.8	51
30	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> , 2013, 47, 2535-2541.	10.0	46
31	Plume-ridge interaction studied at the Galapagos 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> , 2005, 234, 165-187.	4.4	45
32	Geochemistry of speleothem records from southern Illinois: Development of (234U)/(238U) as a proxy for paleoprecipitation. <i>Chemical Geology</i> , 2005, 221, 1-20.	3.3	44
33	Uranium Isotopic Fractionation Induced by U(VI) Adsorption onto Common Aquifer Minerals. <i>Environmental Science &amp; Technology</i> , 2016, 50, 12232-12240.	10.0	43
34	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.	2.5	40
35	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.	4.8	40
36	Bomb radiocarbon and lead-radium disequilibria in otoliths of bocaccio rockfish ( <i>Sebastes</i> ) <i>Tj ETQq O O rgBT /Overlock 10 Tf 50 67 Td</i> Research, 2005, 56, 517.	1.3	36

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37	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.	3.9	35
38	Time-scales for magmatic differentiation at the Snaefellsjökull central volcano, western Iceland: Constraints from U–Th–Pa–Ra disequilibria in post-glacial lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1120-1144.	3.9	34
39	Climate change in southern Illinois, USA, based on the age and $\delta^{13}C$ of organic matter in cave sediments. <i>Quaternary Research</i> , 2004, 61, 301-313.	1.7	33
40	Evaluation of the efficacy of spatiotemporal Pb isoscapes for provenancing of human remains. <i>Forensic Science International</i> , 2016, 261, 83-92.	2.2	33
41	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.	1.2	31
42	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.	5.4	29
43	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.	4.1	28
44	Application of an ion–change 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.	1.4	28
45	$^{231}Pa$ excesses in arc volcanic rocks: Constraint on melting rates at convergent margins. <i>Geology</i> , 2007, 35, 1007.	4.4	26
46	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.	1.3	26
47	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> , 2006, 157, 147-165.	2.1	25
48	Iron isotopic evolution during fractional crystallization of the uppermost Boshvold complex layered mafic intrusion. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 956-972.	2.5	25
49	Microbial U Isotope Fractionation Depends on the U(VI) Reduction Rate. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2295-2303.	10.0	24
50	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.	4.4	22
51	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	20
52	U-series disequilibria in Kickem 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.	3.9	19
53	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.	2.1	18
54	Field Application of $^{238}U$ / $^{235}U$ Measurements To Detect Reoxidation and Mobilization of U(IV). <i>Environmental Science &amp; Technology</i> , 2018, 52, 3422-3430.	10.0	18

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55	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> , 2006, 157, 222-235.	2.1	17
56	A Mid–Late Quaternary loess paleosol record in Simmons Farm in southern Illinois, USA. <i>Quaternary Science Reviews</i> , 2009, 28, 93-106.	3.0	16
57	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.	3.9	15
58	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.	2.1	15
59	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.	3.1	13
60	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.	1.3	12
61	Mid-ocean ridge basalt generation along the slow-spreading, South Mid-Atlantic Ridge (5–11 °S): Inferences from <sup>238</sup> U– <sup>230</sup> Th– <sup>226</sup> Ra disequilibria. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 169, 152-166.	3.9	12
62	Huang et al. reply. <i>Nature</i> , 2011, 472, E2-E3.	27.8	11
63	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.	3.0	11
64	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.	4.4	10
65	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	9
66	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.	5.2	9
67	MC-ICP-MS analyses of tin isotopes in Roman era bronze coins reveal temporal and spatial variation. <i>Archaeometry</i> , 2019, 61, 891-905.	1.3	8
68	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.	3.4	7
69	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
70	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.	1.0	5
71	Chemical and physical weathering in south Patagonian rivers: A combined Sr–U–Be isotope approach. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 101, 173-190.	3.9	5
72	<sup>231</sup> Pa systematics in postglacial volcanic rocks from Iceland. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 129-140.	3.9	5

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73	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.	3.8	4
74	U-series disequilibria of trachyandesites from minor volcanic centers in the Central Andes. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 215, 92-104.	3.9	4
75	Forensic isoscapes based on intra-individual temporal variation of $\delta^{18}\text{O}$ and $^{206}\text{Pb}/^{207}\text{Pb}$ in human teeth. <i>Forensic Sciences Research</i> , 2021, 6, 42-52.	1.6	4
76	A self-consistent top-down model for differentiation in bimodal suites: application to the Sonju Lake Intrusion-Finland granite system (MN). <i>International Geology Review</i> , 2017, 59, 1451-1470.	2.1	1
77	Acceptance of the 2001 F.W. Clarke award. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 559-560.	3.9	0