

Craig C Lundstrom

List of Publications by Year in descending order

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77
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docs citations

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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 & 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 Fe_3C : 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. Journal of Hydrology, 2014, 519, 414-422. | 5.4 | 67 |
| 20 | Silicic Magmatism and the Volcanic-Plutonic Connection. Elements, 2016, 12, 91-96. | 0.5 | 66 |
| 21 | Natural and experimental constraints on formation of the continental crust based on niobium-tantalum fractionation. International Geology Review, 2009, 51, 473-501. | 2.1 | 65 |
| 22 | Fe and Si isotope variations at Cedar Butte volcano; insight into magmatic differentiation. Earth and Planetary Science Letters, 2014, 405, 169-179. | 4.4 | 59 |
| 23 | Rapid diffusive infiltration of sodium into partially molten peridotite. Nature, 2000, 403, 527-530. | 27.8 | 58 |
| 24 | Experimentally Determined Uranium Isotope Fractionation During Reduction of Hexavalent U by Bacteria and Zero Valent Iron. Environmental Science & Technology, 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. Geochimica Et Cosmochimica Acta, 2009, 73, 5709-5729. | 3.9 | 55 |
| 26 | Models of U-series disequilibria generation in MORB: the effects of two scales of melt porosity. Physics of the Earth and Planetary Interiors, 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. Lithos, 2010, 118, 82-94. | 1.4 | 52 |
| 28 | Isotope Fractionation by Thermal Diffusion in Silicate Melts. Physical Review Letters, 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. Economic Geology, 2016, 111, 2033-2044. | 3.8 | 51 |
| 30 | No Measurable Changes in ²³⁸ U/ ²³⁵ U due to Desorption-Adsorption of U(VI) from Groundwater at the Rifle, Colorado, Integrated Field Research Challenge Site. Environmental Science & Technology, 2013, 47, 2535-2541. | 10.0 | 46 |
| 31 | Plume-ridge interaction studied at the Galapagos spreading center: Evidence from ²²⁶ Ra- ²³⁰ Th- ²³⁸ U and ²³¹ Pa- ²³⁵ U isotopic disequilibria. Earth and Planetary Science Letters, 2005, 234, 165-187. | 4.4 | 45 |
| 32 | Geochemistry of speleothem records from southern Illinois: Development of (234U)/(238U) as a proxy for paleoprecipitation. Chemical Geology, 2005, 221, 1-20. | 3.3 | 44 |
| 33 | Uranium Isotopic Fractionation Induced by U(VI) Adsorption onto Common Aquifer Minerals. Environmental Science & Technology, 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. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a. | 2.5 | 40 |
| 35 | Uranium-series Disequilibria in Mid-ocean Ridge Basalts: Observations and Models of Basalt Genesis. Reviews in Mineralogy and Geochemistry, 2003, 52, 175-214. | 4.8 | 40 |
| 36 | Bomb radiocarbon and lead - radium disequilibria in otoliths of bocaccio rockfish (Sebastes) Tj ETQqO O rgBT /Overlock 10 Tf 50 67 Td 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 Snaefellsj kull 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 B shvold C 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 & 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 Kick em 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 & 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 ²³⁸ U– ²³⁰ Th– ²²⁶ 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 | ²³¹ 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 |