

# Fred J Longstaffe

## List of Publications by Year in descending order

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219  
papers

7,062  
citations

57719

44  
h-index

88593

70  
g-index

224  
all docs

224  
docs citations

224  
times ranked

6728  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Sources and sinks of microplastics in Canadian Lake Ontario nearshore, tributary and beach sediments. <i>Marine Pollution Bulletin</i> , 2016, 110, 383-395.   | 2.3 | 486       |
| 2  | Proportions of convective and stratiform precipitation revealed in water isotope ratios. <i>Nature Geoscience</i> , 2016, 9, 624-629.  | 5.4 | 217       |
| 3  | Origin and evolution of formation waters, Alberta Basin, Western Canada sedimentary Basin. I. Chemistry. <i>Applied Geochemistry</i> , 1990, 5, 375-395.   | 1.4 | 184       |
| 4  | Exploring the effects of environment, physiology and diet on oxygen isotope ratios in ancient Nubian bones and teeth. <i>Journal of Archaeological Science</i> , 2004, 31, 233-250.  | 1.2 | 136       |
| 5  | Burning and boiling of modern deer bone: Effects on crystallinity and oxygen isotope composition of bioapatite phosphate. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 249, 90-102.                    | 1.0 | 132       |
| 6  | Influence of seabird guano and camelid dung fertilization on the nitrogen isotopic composition of field-grown maize ( <i>Zea mays</i> ). <i>Journal of Archaeological Science</i> , 2012, 39, 3721-3740.                   | 1.2 | 129       |
| 7  | Testing the Nature of Teotihuacn Imperialism at Kaminaljuy Using Phosphate Oxygen-Isotope Ratios. <i>Journal of Anthropological Research</i> , 2000, 56, 535-558.  | 0.1 | 122       |
| 8  | Demography and ethnic continuity in the Tlailotlacan enclave of Teotihuacan: the evidence from stable oxygen isotopes. <i>Journal of Anthropological Archaeology</i> , 2004, 23, 385-403.                                  | 0.7 | 117       |
| 9  | Geographic Identities of the Sacrificial Victims from the Feathered Serpent Pyramid, Teotihuacan: Implications for the Nature of State Power. <i>Latin American Antiquity</i> , 2002, 13, 217-236.                         | 0.3 | 114       |
| 10 | Isotopic Evidence for Maya Patterns of Deer and Dog Use at Preclassic Colha. <i>Journal of Archaeological Science</i> , 2001, 28, 89-107.  | 1.2 | 111       |
| 11 | Carbon and Nitrogen Isotopic Survey of Northern Peruvian Plants: Baselines for Paleodietary and Paleoecological Studies. <i>PLoS ONE</i> , 2013, 8, e53763.  | 1.1 | 106       |
| 12 | Do stable isotopes reflect nutritional stress? Results from a laboratory experiment on song sparrows. <i>Oecologia</i> , 2007, 151, 365-371.   | 0.9 | 97        |
| 13 | Geomicrobiology of carbonate-silicate microbialites from Hawaiian basaltic sea caves. <i>Chemical Geology</i> , 2000, 169, 339-355.  | 1.4 | 96        |
| 14 | RESIDENTIAL HISTORIES OF THE HUMAN SACRIFICES AT THE MOON PYRAMID, TEOTIHUACAN. <i>Ancient Mesoamerica</i> , 2007, 18, 159-172.  | 0.2 | 90        |
| 15 | The fall and recovery of the Tagish Lake meteorite. <i>Meteoritics and Planetary Science</i> , 2006, 41, 407-431.  | 0.7 | 88        |
| 16 | Small scale camelid husbandry on the north coast of Peru (Vir Valley): Insight from stable isotope analysis. <i>Journal of Anthropological Archaeology</i> , 2014, 36, 110-129.   | 0.7 | 87        |
| 17 | Intraskeletal isotopic compositions ( $\delta^{13}\text{C}$ , $\delta^{15}\text{N}$ ) of bone collagen: Nonpathological and pathological variation. <i>American Journal of Physical Anthropology</i> , 2014, 153, 598-604. | 2.1 | 84        |
| 18 | Inter-laboratory comparison of oxygen isotope compositions from biogenic silica. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7242-7256.   | 1.6 | 82        |

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|----|--|-----|-----------|
| 19 | Trophic level and macronutrient shift effects associated with the weaning process in the postclassic Maya. <i>American Journal of Physical Anthropology</i> , 2005, 128, 781-790.                                      | 2.1 | 75        |
| 20 | Hydrogen-isotope geochemistry of diagenetic clay minerals from Cretaceous sandstones, Alberta, Canada: evidence for exchange. <i>Applied Geochemistry</i> , 1990, 5, 657-668.  | 1.4 | 73        |
| 21 | Immigration, Assimilation, and Status in the Ancient City of Teotihuacan: Stable Isotopic Evidence from Tlajinga 33. <i>Latin American Antiquity</i> , 2004, 15, 176-198.  | 0.3 | 73        |
| 22 | Landscape bioarchaeology at Pacatnamu, Peru: inferring mobility from $\delta^{13}C$ and $\delta^{15}N$ values of hair. <i>Journal of Archaeological Science</i> , 2009, 36, 1527-1537.                                 | 1.2 | 70        |
| 23 | Probing the hydrothermal system of the Chicxulub impact crater. <i>Science Advances</i> , 2020, 6, eaaz3053.   | 4.7 | 69        |
| 24 | Leucogranites from the Eastern Part of the South Mountain Batholith, Nova Scotia. <i>Journal of Petrology</i> , 1993, 34, 653-679.   | 1.1 | 67        |
| 25 | Social Complexity and Food Systems at Altun Ha, Belize: The Isotopic Evidence. <i>Latin American Antiquity</i> , 2001, 12, 371-393.  | 0.3 | 64        |
| 26 | Moulting matters: the importance of understanding moulting cycles in bats when using fur for endogenous marker analysis. <i>Canadian Journal of Zoology</i> , 2013, 91, 533-544.                                       | 0.4 | 64        |
| 27 | Improving stable isotopic interpretations made from human hair through reduction of growth cycle error. <i>American Journal of Physical Anthropology</i> , 2011, 145, 125-136.   | 2.1 | 63        |
| 28 | Large variation in nitrogen isotopic composition of a fertilized legume. <i>Journal of Archaeological Science</i> , 2014, 45, 72-79.   | 1.2 | 62        |
| 29 | Do $\delta^{15}N$ and $\delta^{13}C$ values of feces reflect the isotopic composition of diets in small mammals?. <i>Canadian Journal of Zoology</i> , 2007, 85, 388-396.  | 0.4 | 60        |
| 30 | Alteration and metamorphism of Amitsoq gneisses from the Isukasia area, West Greenland: Recommendations for isotope studies of the early crust. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 2165-2172.          | 1.6 | 59        |
| 31 | Early diagenesis and its relationship to depositional environment and relative sea-level fluctuations (Upper Cretaceous Marshybank Formation, Alberta and British Columbia). <i>Sedimentology</i> , 1995, 42, 161-190. | 1.6 | 56        |
| 32 | Carbon- and nitrogen-isotope tissue $\delta^{13}C$ diet discrimination and turnover rates in deer mice, <i>Peromyscus maniculatus</i> . <i>Canadian Journal of Zoology</i> , 2008, 86, 685-691.                        | 0.4 | 55        |
| 33 | The effects of phenotypic plasticity on photosynthetic performance in winter rye, winter wheat and <i>Brassica napus</i> . <i>Physiologia Plantarum</i> , 2012, 144, 169-188.  | 2.6 | 55        |
| 34 | Clay assemblage and oxygen isotopic constraints on the weathering response to the Paleocene-Eocene thermal maximum, east coast of North America. <i>Geology</i> , 2012, 40, 591-594.                                   | 2.0 | 53        |
| 35 | Stable Isotope Biogeochemistry of Seabird Guano Fertilization: Results from Growth Chamber Studies with Maize ( <i>Zea Mays</i> ). <i>PLoS ONE</i> , 2012, 7, e33741.  | 1.1 | 53        |
| 36 | Solving the woolly mammoth conundrum: amino acid $\delta^{15}N$ -enrichment suggests a distinct forage or habitat. <i>Scientific Reports</i> , 2015, 5, 9791.  | 1.6 | 51        |

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|----|---|-----|-----------|
| 37 | Effects of heating on the carbon and oxygen-isotope compositions of structural carbonate in bioapatite from modern deer bone. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 266, 142-150.                                | 1.0 | 50        |
| 38 | Nursing, weaning, and tooth development in woolly mammoths from Old Crow, Yukon, Canada: Implications for Pleistocene extinctions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 298, 257-270.                           | 1.0 | 50        |
| 39 | Dietary shifting in the Nasca Region as inferred from the carbon- and nitrogen-isotope compositions of archaeological hair and bone. <i>Journal of Archaeological Science</i> , 2013, 40, 129-139.  | 1.2 | 50        |
| 40 | Investigating inherent differences in isotopic composition between human bone and enamel bioapatite: implications for reconstructing residential histories. <i>Journal of Archaeological Science</i> , 2014, 50, 97-107.                    | 1.2 | 49        |
| 41 | Origins of Prehispanic Camelid Wool Textiles from the North and Central Coasts of Peru Traced by Carbon and Nitrogen Isotopic Analyses. <i>Current Anthropology</i> , 2015, 56, 449-459.  | 0.8 | 49        |
| 42 | Agriculture causes nitrate fertilization of remote alpine lakes. <i>Nature Communications</i> , 2016, 7, 10571.   | 5.8 | 49        |
| 43 | Method-dependent variations in stable isotope results for structural carbonate in bone bioapatite. <i>Journal of Archaeological Science</i> , 2009, 36, 110-121.  | 1.2 | 48        |
| 44 | Climatic Implications of the S5 Paleosol Complex on the Southernmost Chinese Loess Plateau. <i>Quaternary Research</i> , 1998, 50, 21-33.   | 1.0 | 47        |
| 45 | Evolution of hydrothermal fluids in the Ashanti gold belt, Ghana; stable isotope geochemistry of carbonates, graphite, and quartz. <i>Economic Geology</i> , 1996, 91, 135-148.   | 1.8 | 45        |
| 46 | Sulphur isotope geochemistry of pyrite from the Upper Cretaceous Marshybank Formation, Western Interior Basin. <i>Sedimentary Geology</i> , 2003, 157, 175-195.   | 1.0 | 45        |
| 47 | VICTIMS OF THE VICTIMS: Human trophies worn by sacrificed soldiers from the Feathered Serpent Pyramid, Teotihuacan. <i>Ancient Mesoamerica</i> , 2004, 15, 1-15.  | 0.2 | 45        |
| 48 | The state of Lake Simcoe (Ontario, Canada): the effects of multiple stressors on phosphorus and oxygen dynamics. <i>Inland Waters</i> , 2013, 3, 51-74.   | 1.1 | 44        |
| 49 | Stable isotopic and fluid inclusion indications of large-scale hydrothermal paleoflow, boiling, and fluid mixing in the Keno Hill Ag-Pb-Zn district, Yukon Territory, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1045-1059. | 1.6 | 43        |
| 50 | Oxygen isotope microanalyses of diagenetic quartz: possible low temperature occlusion of pores. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 2537-2543.   | 1.6 | 43        |
| 51 | A fluid inclusion and stable-isotope study of the Tom Ba-Pb-Zn deposit, Yukon Territory, Canada. <i>Economic Geology</i> , 1989, 84, 841-856.   | 1.8 | 42        |
| 52 | Evidence of Latitudinal Migration in Tri-colored Bats, <i>Perimyotis subflavus</i> . <i>PLoS ONE</i> , 2012, 7, e31419.   | 1.1 | 42        |
| 53 | Secondary K-feldspar at the Precambrian-Paleozoic unconformity, southwestern Ontario. <i>Canadian Journal of Earth Sciences</i> , 1995, 32, 1432-1450.  | 0.6 | 41        |
| 54 | A reconstruction of Middle Preclassic Maya subsistence economy at Cahal Pech, Belize. <i>Antiquity</i> , 1999, 73, 364-376.   | 0.5 | 41        |

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|----|---|-----|-----------|
| 55 | An isotopic and geochemical study of carbonate-clay mineralization in basaltic caves: abiotic versus microbial processes. <i>Geobiology</i> , 2007, 5, 235-249.   | 1.1 | 41        |
| 56 | American mastodon extirpation in the Arctic and Subarctic predates human colonization and terminal Pleistocene climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18460-18465.   | 3.3 | 41        |
| 57 | Residential histories of elites and sacrificial victims at Huacas de Moche, Peru, as reconstructed from oxygen isotopes. <i>Journal of Archaeological Science</i> , 2014, 42, 15-28.  | 1.2 | 41        |
| 58 | New biotite and muscovite isotopic reference materials, USGS57 and USGS58, for $\delta^2\text{H}$ measurements—A replacement for NBS 30. <i>Chemical Geology</i> , 2017, 467, 89-99.  | 1.4 | 41        |
| 59 | REVISITING THE TEOTIHUACAN CONNECTION AT ALTUN HA. <i>Ancient Mesoamerica</i> , 2001, 12, 65-72.  | 0.2 | 40        |
| 60 | Climatic influences on the oxygen isotopic composition of biogenic silica in prairie grass. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 1891-1904.   | 1.6 | 40        |
| 61 | A gas-chromatograph, continuous flow-isotope ratio mass-spectrometry method for $\delta^{13}\text{C}$ and $\delta^2\text{H}$ measurement of complex fluid inclusion volatiles: Examples from the Khibina alkaline igneous complex, northwest Russia and the south Wales coalfields. <i>Chemical Geology</i> , 2007, 244, 186-201. | 1.4 | 40        |
| 62 | Carbonate Speleothems in the Dry, Inneralpine Vinschgau Valley, Northernmost Italy: Witnesses of Changes in Climate and Hydrology Since the Last Glacial Maximum. <i>Journal of Sedimentary Research</i> , 2002, 72, 793-808.   | 0.8 | 39        |
| 63 | Dolomitization of the Oligocene—Miocene Bluff Formation on Grand Cayman, British West Indies. <i>Canadian Journal of Earth Sciences</i> , 1990, 27, 1098-1110.  | 0.6 | 38        |
| 64 | $\delta^2\text{H}$ and $\delta^{18}\text{O}$ evidence for inputs to groundwater at a wetland coastal boundary in the southern Great Lakes region of Canada. <i>Journal of Hydrology</i> , 1999, 214, 18-31.   | 2.3 | 38        |
| 65 | Hydrothermal Alteration and Mineralization in the Neves-Corvo Volcanic-Hosted Massive Sulfide Deposit, Portugal. II. Oxygen, Hydrogen, and Carbon Isotopes. <i>Economic Geology</i> , 2006, 101, 791-804.   | 1.8 | 38        |
| 66 | Tectonic and eustatic control on deposition and preservation of Upper Cretaceous ooidal ironstone and associated facies: Peace River Arch area, NW Alberta, Canada. <i>Sedimentology</i> , 1999, 46, 1159-1182.   | 1.6 | 36        |
| 67 | Unusual Secondary Ca—Mg—Carbonate—Kerolite Deposits in Basaltic Caves, Kauai, Hawaii. <i>Journal of Geology</i> , 2000, 108, 613-621.   | 0.7 | 36        |
| 68 | Proboscideans and paleoenvironments of the Pleistocene Great Lakes: landscape, vegetation, and stable isotopes. <i>Quaternary Science Reviews</i> , 2013, 76, 102-113.  | 1.4 | 36        |
| 69 | Baseline data for Andean paleomobility research: a radiogenic strontium isotope study of modern Peruvian agricultural soils. <i>Archaeological and Anthropological Sciences</i> , 2014, 6, 205-219.   | 0.7 | 36        |
| 70 | Oxygen isotope evidence for the genesis of Upper Paleozoic granitoids from southwestern Nova Scotia. <i>Canadian Journal of Earth Sciences</i> , 1980, 17, 132-141.   | 0.6 | 35        |
| 71 | Seasonal stability and variation in diet as reflected in human mummy tissues from the Kharga Oasis and the Nile Valley. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1999, 147, 209-222.  | 1.0 | 35        |
| 72 | Mammoth tooth enamel growth rates inferred from stable isotope analysis and histology. <i>Quaternary Research</i> , 2012, 77, 424-432.  | 1.0 | 35        |

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|----|---|-----|-----------|
| 73 | Early Horizon camelid management practices in the Nepeña Valley, north-central coast of Peru. <i>Environmental Archaeology</i> , 2016, 21, 230-245.   | 0.6 | 35        |
| 74 | Systematic decrease of high $\delta^{13}\text{C}$ values with burial in late Archaean (2.8 Ga) diagenetic dolomite: evidence for methanogenesis from the Crix's Greenstone Belt, Brazil. <i>Precambrian Research</i> , 1995, 70, 253-268. | 1.2 | 34        |
| 75 | Stable isotopic investigation of clay minerals and pedogenesis in an interfluvial paleosol from the Cenomanian Dunvegan Formation, N.E. British Columbia, Canada. <i>Chemical Geology</i> , 2002, 192, 269-287.                           | 1.4 | 34        |
| 76 | Recent changes in production in oligotrophic Uinta Mountain lakes, Utah, identified using paleolimnology. <i>Limnology and Oceanography</i> , 2014, 59, 1987-2001.  | 1.6 | 34        |
| 77 | Integrating cortisol and isotopic analyses of archeological hair: Reconstructing individual experiences of health and stress. <i>American Journal of Physical Anthropology</i> , 2015, 156, 577-594.                                      | 2.1 | 34        |
| 78 | Oxygen-isotope studies of clastic diagenesis in the Lower Cretaceous Viking Formation, Alberta: implications for the role of meteoric water. <i>Geological Society Special Publication</i> , 1987, 36, 277-296.                           | 0.8 | 33        |
| 79 | Reframing the mammoth steppe: Insights from analysis of isotopic niches. <i>Quaternary Science Reviews</i> , 2019, 215, 1-21.   | 1.4 | 33        |
| 80 | The relationship between phytolith- and plant-water $\delta^{18}\text{O}$ values in grasses. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1437-1449.  | 1.6 | 32        |
| 81 | Kerolite in carbonate-rich speleothems and microbial deposits from basaltic caves, Kauai, Hawaii. <i>Clays and Clay Minerals</i> , 2002, 50, 514-524.   | 0.6 | 31        |
| 82 | Isotopic paleoecology of Clovis mammoths from Arizona. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17916-17920.   | 3.3 | 31        |
| 83 | Isotopic and chemical compositions of bentonites as paleoenvironmental indicators of the Cretaceous Western Interior Seaway. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1996, 119, 301-320.                               | 1.0 | 30        |
| 84 | The oxygen-isotope composition of chondrules and isolated forsterite and olivine grains from the Tagish Lake carbonaceous chondrite. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2484-2499.  | 1.6 | 30        |
| 85 | Extreme element mobility during transformation of Neoproterozoic (ca. 2.7 Ga) pillow basalts to a Paleoproterozoic (ca. 1.9 Ga) paleosol, Schreiber Beach, Ontario, Canada. <i>Chemical Geology</i> , 2012, 326-327, 145-173.             | 1.4 | 29        |
| 86 | Exploring Geographic Origins at Cahuachi using Stable Isotopic Analysis of Archaeological Human Tissues and Modern Environmental Waters. <i>International Journal of Osteoarchaeology</i> , 2013, 23, 698-715.                            | 0.6 | 29        |
| 87 | Petrogenetic and geodynamic origin of the Neoproterozoic Doré Lake Complex, Abitibi subprovince, Superior Province, Canada. <i>International Journal of Earth Sciences</i> , 2018, 107, 811-843.  | 0.9 | 28        |
| 88 | Giant beaver palaeoecology inferred from stable isotopes. <i>Scientific Reports</i> , 2019, 9, 7179.  | 1.6 | 28        |
| 89 | Stable isotope evidence for multiple fluid regimes during carbonate cementation of the Upper Tertiary Hazeva Formation, Dead Sea Graben, southern Israel. <i>Journal of Geochemical Exploration</i> , 2003, 80, 151-170.                  | 1.5 | 27        |
| 90 | Stable isotope geochemistry of clay minerals from fossil and active hydrothermal systems, southwestern Hokkaido, Japan. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 2545-2559.   | 1.6 | 26        |

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|-----|--|-----|-----------|
| 91  | Oxygen isotope composition of alteration zones of highly metamorphosed volcanogenic massive sulfide deposits; Geco, Canada, and Palmeiropolis, Brazil. <i>Economic Geology</i> , 1996, 91, 697-712.  | 1.8 | 26        |
| 92  | Abiogenic hydrocarbon isotopic signatures in granitic rocks: Identifying pathways of formation. <i>Lithos</i> , 2013, 182-183, 114-124.  | 0.6 | 26        |
| 93  | Clay mineral authigenesis along a mid-continental scale fluid conduit in Palaeozoic sedimentary rocks from southern Ontario, Canada. <i>Clay Minerals</i> , 2000, 35, 239-260.   | 0.2 | 26        |
| 94  | Diagenesis and isotopic evolution of porewaters in the Alberta Deep Basin: The Falher Member and Cadomin Formation. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2529-2546.  | 1.6 | 25        |
| 95  | Origin of Cretaceous and Oligocene Kaolinites from the Iwaizumi Clay Deposit, Iwate, Northeastern Japan. <i>Clays and Clay Minerals</i> , 1996, 44, 408-416.   | 0.6 | 25        |
| 96  | Multiple Episodes of Clay Alteration at the Precambrian/Paleozoic Unconformity, Appalachian Basin: Isotopic Evidence for Long-Distance and Local Fluid Migrations. <i>Clays and Clay Minerals</i> , 2000, 48, 474-493.   | 0.6 | 25        |
| 97  | THE NATURE AND ORIGIN OF AUTHIGENIC CHLORITE AND RELATED CEMENTS IN OLIGOCENE RESERVOIR SANDSTONES, TAPTI GAS FIELDS, SURAT DEPRESSION, OFFSHORE WESTERN INDIA. <i>Journal of Petroleum Geology</i> , 2015, 38, 383-409.   | 0.9 | 25        |
| 98  | Diagenesis of a mixed siliciclastic/evaporitic sequence of the Middle Muschelkalk (Middle Triassic), the Catalan Coastal Range, NE Spain. <i>Sedimentology</i> , 1995, 42, 749-768.  | 1.6 | 24        |
| 99  | Fluid-rock reactions in an evaporitic mélange, Permian Haselgebirge, Austrian Alps. <i>Sedimentology</i> , 1998, 45, 1019-1044.  | 1.6 | 24        |
| 100 | Authigenic albite in carbonate rocks - a tracer for deep-burial brine migration?. <i>Sedimentology</i> , 1999, 46, 649-666.  | 1.6 | 24        |
| 101 | Mineralogical and geochemical characterisation of warm-water, shallow-marine glaucony from the Tertiary of the London Basin. <i>Clay Minerals</i> , 2017, 52, 25-50.   | 0.2 | 24        |
| 102 | The JC tin skarn deposit, southern Yukon Territory; II, A carbon, oxygen, hydrogen, and sulfur stable isotope study. <i>Economic Geology</i> , 1991, 86, 48-65.  | 1.8 | 23        |
| 103 | Isotopic Evidence for Diet at Chau Hiix, Belize: Testing Regional Models of Hierarchy and Heterarchy. <i>Latin American Antiquity</i> , 2009, 20, 15-36.   | 0.3 | 23        |
| 104 | Maya Marine Subsistence: Isotopic Evidence from Marco Gonzalez and San Pedro, Belize. <i>Latin American Antiquity</i> , 2009, 20, 37-56.   | 0.3 | 23        |
| 105 | A juvenile oceanic island arc origin for the Archean (ca. 2.97 Ga) Fiskefjället anorthosite complex, southwestern Greenland: Evidence from oxygen isotopes. <i>Earth and Planetary Science Letters</i> , 2014, 396, 252-266.   | 1.8 | 23        |
| 106 | An overview of anorthosite-bearing layered intrusions in the Archaean craton of southern West Greenland and the Superior Province of Canada: implications for Archaean tectonics and the origin of megacrystic plagioclase. <i>Geodinamica Acta</i> , 2018, 30, 84-99. | 2.2 | 23        |
| 107 | Limitations on the climatic and ecological signals provided by the $\delta^{13}C$ values of phytoliths from a C4 North American prairie grass. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3041-3050.   | 1.6 | 22        |
| 108 | Investigating intra-bone isotopic variations in bioapatite using IR-laser ablation and micromilling: Implications for identifying diagenesis?. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 266, 190-199.  | 1.0 | 21        |

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|-----|--|-----|-----------|
| 109 | Hydrothermal alteration associated with the Chicxulub impact crater upper peak-ring breccias. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116425.  | 1.8 | 21        |
| 110 | Geochemical evolution of peraluminous plutons in southern Nova Scotia, Canada—a pegmatite-poor suite. <i>Lithos</i> , 1998, 44, 117-140.   | 0.6 | 20        |
| 111 | Large-scale stable isotope characterization of a Late Cretaceous dinosaur-dominated ecosystem. <i>Geology</i> , 2020, 48, 546-551.   | 2.0 | 20        |
| 112 | The Oxygen-Isotope Geochemistry of Archean Granitoids. <i>Developments in Petrology</i> , 1979, 6, 363-399.  | 0.1 | 19        |
| 113 | Stable and Radiogenic Isotopes in Biological Archaeology: Some Applications. , 2010, , 335-356.  |     | 19        |
| 114 | Environmental change and seasonal behavior of mastodons in the Great Lakes region inferred from stable isotope analysis. <i>Quaternary Research</i> , 2014, 82, 366-377.   | 1.0 | 19        |
| 115 | Formation of the Neoproterozoic Bad Vermilion Lake Anorthosite Complex and spatially associated granitic rocks at a convergent plate margin, Superior Province, Western Ontario, Canada. <i>Gondwana Research</i> , 2016, 33, 134-159. | 3.0 | 19        |
| 116 | Hydrogen-isotope fractionation in aluminum hydroxides: Synthesis products versus natural samples from bauxites. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1391-1398.  | 1.6 | 18        |
| 117 | Ecomorphological patterns linking morphology and diet across three populations of pumpkinseed sunfish ( <i>Lepomis gibbosus</i> ). <i>Canadian Journal of Zoology</i> , 2015, 93, 289-297.   | 0.4 | 18        |
| 118 | Archean Rocks of Shoshonitic Affinities at Bijou Point, Northwestern Ontario. <i>Canadian Journal of Earth Sciences</i> , 1974, 11, 1407-1413.   | 0.6 | 17        |
| 119 | Mineralogical and O-isotope studies of diagenesis and porewater evolution in continental sandstones, Cretaceous Belly River Group, Alberta, Canada. <i>Applied Geochemistry</i> , 1991, 6, 291-303.                                    | 1.4 | 17        |
| 120 | Assortative mating but no evidence of genetic divergence in a species characterized by a trophic polymorphism. <i>Journal of Evolutionary Biology</i> , 2016, 29, 633-644.   | 0.8 | 17        |
| 121 | Isotopic anthropology of rural German medieval diet: intra- and inter-population variability. <i>Archaeological and Anthropological Sciences</i> , 2018, 10, 1053-1065.  | 0.7 | 16        |
| 122 | Plant sulfur isotopic compositions are altered by marine fertilizers. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 2989-2999.  | 0.7 | 16        |
| 123 | Victims of Sacrifice: Isotopic Evidence for Place of Origin. <i>Interdisciplinary Contributions To Archaeology</i> , 2007, , 263-292.  | 0.1 | 16        |
| 124 | Authigenic potassium feldspar: a tracer for the timing of palaeofluid flow in carbonate rocks, Northern Calcareous Alps, Austria. <i>Geological Society Special Publication</i> , 1998, 144, 107-128.                                  | 0.8 | 15        |
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