

# Christopher Fedo

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

6,286  
citations

172386

29  
h-index

138417

58  
g-index

64  
all docs

64  
docs citations

64  
times ranked

4642  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Unraveling the effects of potassium metasomatism in sedimentary rocks and paleosols, with implications for paleoweathering conditions and provenance. <i>Geology</i> , 1995, 23, 921.   | 2.0 | 2,112     |
| 2  | Detrital Zircon Analysis of the Sedimentary Record. <i>Reviews in Mineralogy and Geochemistry</i> , 2003, 53, 277-303.  | 2.2 | 652       |
| 3  | Characterisation of early Archaean chemical sediments by trace element signatures. <i>Earth and Planetary Science Letters</i> , 2004, 222, 43-60.   | 1.8 | 571       |
| 4  | Quartz and Feldspar Stability, Steady and Non-Steady-State Weathering, and Petrogenesis of Siliciclastic Sands and Muds. <i>Journal of Geology</i> , 1997, 105, 173-192.  | 0.7 | 403       |
| 5  | Geochemistry of shales from the Archean (~3.0 Ga) Buhwa Greenstone Belt, Zimbabwe: Implications for provenance and source-area weathering. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1751-1763.  | 1.6 | 362       |
| 6  | Metasomatic Origin of Quartz-Pyroxene Rock, Akilia, Greenland, and Implications for Earth's Earliest Life. <i>Science</i> , 2002, 296, 1448-1452.   | 6.0 | 187       |
| 7  | Paleoclimatic control on the composition of the Paleoproterozoic Serpent Formation, Huronian Supergroup, Canada: a greenhouse to icehouse transition. <i>Precambrian Research</i> , 1997, 86, 201-223.  | 1.2 | 169       |
| 8  | Paleoproterozoic Huronian basin: product of a Wilson cycle punctuated by glaciations and a meteorite impact. <i>Sedimentary Geology</i> , 2001, 141-142, 233-254.   | 1.0 | 140       |
| 9  | Integrated Pb- and S-isotope investigation of sulphide minerals from the early Archaean of southwest Greenland. <i>Chemical Geology</i> , 2005, 222, 112-131.   | 1.4 | 115       |
| 10 | Questioning the evidence for Earth's earliest life—Akilia revisited. <i>Geology</i> , 2005, 33, 77.   | 2.0 | 105       |
| 11 | Microscale heterogeneity of Fe isotopes in >3.71 Ga banded iron formation from the Isua Greenstone Belt, southwest Greenland. <i>Geology</i> , 2007, 35, 719.   | 2.0 | 101       |
| 12 | Depositional setting and paleogeographic implications of earth's oldest supracrustal rocks, the >3.7Ga Isua Greenstone belt, West Greenland. <i>Sedimentary Geology</i> , 2001, 141-142, 61-77.   | 1.0 | 82        |
| 13 | EARLY CAMBRIAN EDIACARAN-TYPE FOSSILS FROM CALIFORNIA. <i>Journal of Paleontology</i> , 2000, 74, 731-740.  | 0.5 | 74        |
| 14 | Setting and origin for problematic rocks from the >3.7 Ga Isua Greenstone Belt, southern west Greenland: Earth's oldest coarse clastic sediments. <i>Precambrian Research</i> , 2000, 101, 69-78.   | 1.2 | 69        |
| 15 | Evidence for a Diagenetic Origin of Vera Rubin Ridge, Gale Crater, Mars: Summary and Synthesis of Curiosity's Exploration Campaign. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006527.   | 1.5 | 69        |
| 16 | A Lacustrine Paleoenvironment Recorded at Vera Rubin Ridge, Gale Crater: Overview of the Sedimentology and Stratigraphy Observed by the Mars Science Laboratory Curiosity Rover. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006307.    | 1.5 | 69        |
| 17 | Sedimentology and sequence stratigraphy of Neoproterozoic and Cambrian units across a craton-margin hinge zone, southeastern California, and implications for the early evolution of the Cordilleran margin. <i>Sedimentary Geology</i> , 2001, 141-142, 501-522. | 1.0 | 65        |
| 18 | Ensilic origin for the Ngezi Group, Belingwe greenstone belt, Zimbabwe. <i>Geology</i> , 1993, 21, 1135.  | 2.0 | 64        |

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|----|---|-----|-----------|
| 19 | Brine-driven destruction of clay minerals in Gale crater, Mars. <i>Science</i> , 2021, 373, 198-204.  | 6.0 | 52        |
| 20 | Soil mineralogy at the Mars Exploration Rover landing sites: An assessment of the competing roles of physical sorting and chemical weathering. <i>Journal of Geophysical Research</i> , 2012, 117, .  | 3.3 | 49        |
| 21 | Origin of basaltic soils at Gusev crater, Mars, by aeolian modification of impact-generated sediment. <i>Journal of Geophysical Research</i> , 2011, 116, .   | 3.3 | 47        |
| 22 | Provenance and paleoweathering reconstruction of the Neoproterozoic Johnnie Formation, southeastern California. <i>Chemical Geology</i> , 2011, 285, 231-255.   | 1.4 | 47        |
| 23 | Evidence for Multiple Diagenetic Episodes in Ancient Fluvial-Lacustrine Sedimentary Rocks in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006295.   | 1.5 | 45        |
| 24 | The Chemostratigraphy of the Murray Formation and Role of Diagenesis at Vera Rubin Ridge in Gale Crater, Mars, as Observed by the ChemCam Instrument. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006320.                       | 1.5 | 41        |
| 25 | Grain size and hydrodynamic sorting controls on the composition of basaltic sediments: Implications for interpreting martian soils. <i>Earth and Planetary Science Letters</i> , 2015, 423, 67-77.  | 1.8 | 40        |
| 26 | The Akilia Controversy: field, structural and geochronological evidence questions interpretations of >3.8 Ga life in SW Greenland. <i>Journal of the Geological Society</i> , 2009, 166, 335-348.   | 0.9 | 38        |
| 27 | A Rock Record of Complex Aeolian Bedforms in a Hesperian Desert Landscape: The Stimson Formation as Exposed in the Murray Buttes, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006554.                        | 1.5 | 34        |
| 28 | Geologic history of the Archean Buhwa Greenstone Belt and surrounding granite-gneiss terrane, Zimbabwe, with implications for the evolution of the Limpopo Belt. <i>Canadian Journal of Earth Sciences</i> , 1995, 32, 1977-1990.                         | 0.6 | 32        |
| 29 | Grain Size Variations in the Murray Formation: Stratigraphic Evidence for Changing Depositional Environments in Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006230.  | 1.5 | 29        |
| 30 | Zircon U-Pb ages and Hf isotopic compositions indicate multiple sources for Grenvillian detrital zircon deposited in western Laurentia. <i>Earth and Planetary Science Letters</i> , 2015, 432, 300-310.  | 1.8 | 28        |
| 31 | Deformation features and critical field relationships of early Archean rocks, Akilia, southwest Greenland. <i>Precambrian Research</i> , 2003, 126, 259-271.  | 1.2 | 27        |
| 32 | The Curiosity Rover's Exploration of Glen Torridon, Gale Crater, Mars: An Overview of the Campaign and Scientific Results. <i>Journal of Geophysical Research E: Planets</i> , 2023, 128, .   | 1.5 | 27        |
| 33 | Regional Structural Orientation of the Mount Sharp Group Revealed by In Situ Dip Measurements and Stratigraphic Correlations on the Vera Rubin Ridge. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006298.                       | 1.5 | 26        |
| 34 | Geological constraints on detecting the earliest life on Earth: a perspective from the Early Archean (older than 3.7-3.8 Gyr) of southwest Greenland. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 851-867. | 1.8 | 25        |
| 35 | Evolution of a Miocene half-graben basin, Colorado River extensional corridor, southeastern California. <i>Bulletin of the Geological Society of America</i> , 1992, 104, 481-493.  | 1.6 | 24        |
| 36 | Provenance of the Neoproterozoic Johnnie Formation and Stirling Quartzite, southeastern California, determined by detrital zircon geochronology and Nd isotope geochemistry. <i>Precambrian Research</i> , 2012, 206-207, 182-199.                        | 1.2 | 21        |

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|----|---|-----|-----------|
| 37 | Extraformational sediment recycling on Mars. , 2020, 16, 1508-1537.   |     | 20        |
| 38 | Provenance ages and alteration histories of shales from the Middle Archean Buhwa greenstone belt, Zimbabwe: Nd and Pb isotopic evidence. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 319-332.  | 1.6 | 18        |
| 39 | Reassessment of the Basal Sauk Supersequence Boundary across the Laurentian Craton-Margin Hinge Zone, Southeastern California. <i>Journal of Geology</i> , 2011, 119, 661-685.  | 0.7 | 18        |
| 40 | Orbital and In-situ Investigation of Periodic Bedrock Ridges in Glen Torridon, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .  | 1.5 | 18        |
| 41 | Evidence for Fluctuating Wind in Shaping an Ancient Martian Dune Field: The Stimson Formation at the Greenheugh Pediment, Gale Crater. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .   | 1.5 | 17        |
| 42 | Sudbury-type breccias in the Huronian Gowganda Formation near Whitefish Falls, Ontario: products of diabase intrusion into incompletely consolidated sediments?. <i>Canadian Journal of Earth Sciences</i> , 1999, 36, 1435-1448.                           | 0.6 | 14        |
| 43 | The Origin of a Most Contentious Rock. <i>Science</i> , 2002, 298, 961-962.   | 6.0 | 14        |
| 44 | Chapter 5 Archean Synrift and Stable-Shelf Sedimentary Successions. <i>Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana</i> , 1994, , 171-204.   | 0.2 | 12        |
| 45 | Micro-scale silicon isotope heterogeneity observed in hydrothermal quartz precipitates from the &#37;Ga Isua Greenstone Belt, <scp>SW</scp> Greenland. <i>Terra Nova</i> , 2016, 28, 70-75.   | 0.9 | 11        |
| 46 | Architecture of a distal pre-vegetation braidplain: Cambrian middle member of the Wood Canyon Formation, southern Marble Mountains, California, USA. <i>Sedimentology</i> , 2020, 67, 1084-1113.  | 1.6 | 11        |
| 47 | Extending the western North American Proterozoic and Paleozoic continental crust through the Mojave Desert: Comment and Reply. <i>Geology</i> , 1993, 21, 669.  | 2.0 | 10        |
| 48 | Development of a mixed seawater-hydrothermal fluid geochemical signature during alteration of volcanic rocks in the Archean (â¼2.7â€Ga) Abitibi Greenstone Belt, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 227, 227-245.                       | 1.6 | 10        |
| 49 | Paleoproterozoic Mojave province in northwestern Mexico? Isotopic and U-Pb zircon geochronologic studies of Precambrian and Cambrian crystalline and sedimentary rocks, Caborca, Sonora. , 2005, , .  |     | 7         |
| 50 | Architecture of a river-dominated, wave- and tide-influenced, pre-vegetation braid delta: Cambrian middle member of the Wood Canyon Formation, southern Marble Mountains, California, U.S.A.. <i>Journal of Sedimentary Research</i> , 2020, 90, 1011-1036. | 0.8 | 7         |
| 51 | Ancient Winds, Waves, and Atmosphere in Gale Crater, Mars, Inferred From Sedimentary Structures and Wave Modeling. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .   | 1.5 | 7         |
| 52 | New evidence favouring an endogenic origin for supposed impact breccias in Huronian (Paleoproterozoic) sedimentary rocks. <i>Precambrian Research</i> , 2004, 133, 63-74.   | 1.2 | 6         |
| 53 | Does a Heavy Fe-Isotope Composition of Akilia Quartz-Amphibole-Pyroxene Rocks Necessitate a BIF Origin?. <i>Astrobiology</i> , 2015, 15, 816-824.   | 1.5 | 6         |
| 54 | Chapter 7.1 Searching for Earth's Earliest Life in Southern West Greenland â€ History, Current Status, and Future Prospects. <i>Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana</i> , 2007, 15, 841-853.  | 0.2 | 5         |

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|----|---|-----|-----------|
| 55 | Incongruity of Detrital Zircon Ages of Granitic Bedrock and Its Derived Alluvium: An Example from the Stepladder Mountains, Southeastern California. <i>Journal of Geology</i> , 2017, 125, 337-350.  | 0.7 | 5         |
| 56 | Textural, geochemical, and isotopic data from silicified rocks and associated chemical sedimentary rocks in the ~2.7 Ga Abitibi greenstone belt, Canada: Insight into the role of silicification. <i>Precambrian Research</i> , 2020, 351, 105946.              | 1.2 | 4         |
| 57 | Braided fluvial to marine transition; the basal Lower Cambrian Wood Canyon Formation, southern Marble Mountains, Mojave Desert, California; discussion and reply. <i>Journal of Sedimentary Research</i> , 1991, 61, 1029-1035.                                 | 0.8 | 4         |
| 58 | Evaluating the geochemistry and paired silicon and oxygen isotope record of quartz in siliceous rocks from the ~3 Ga Buhwa Greenstone Belt, Zimbabwe, a critical link to deciphering the Mesoarchean silica cycle. <i>Chemical Geology</i> , 2021, 577, 120300. | 1.4 | 3         |
| 59 | THINGS ARE NOT ALWAYS AS THEY SEEM: DETANGLING INTERSECTING PLANAR AND CURVI-PLANAR VEINS AND FRACTURES FROM PRIMARY BEDDING IN THE VERA RUBIN RIDGE MEMBER, MURRAY FORMATION, MARS. , 2018, , .  |     | 3         |
| 60 | U-Pb and Hf Isotopic Evidence on the Sources and Sinks of Grenvillian Detrital Zircons in Early Laurentia. <i>Journal of Geology</i> , 2021, 129, 673-693.  | 0.7 | 1         |
| 61 | A ROCK RECORD OF COMPLEX AEOLIAN BEDFORMS IN A HESPERIAN DESERT LANDSCAPE: THE STIMSON FORMATION AS EXPOSED IN THE MURRAY BUTTES, GALE CRATER, MARS. , 2020, , .  |     | 1         |
| 62 | Terrestrial analogs in the Mojave Desert of the southwestern United States for volcanic, sedimentary, and tectonic processes on other planets. , 2011, , .  |     | 0         |