# James Connelly

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8530107/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 78 papers | 5,667 citations | 81900 39 h-index | 76900 74 g-index |
| 78 all docs | 78 docs citations | 78 times ranked | 4037 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Absolute Chronology and Thermal Processing of Solids in the Solar Protoplanetary Disk. Science, 2012, 338, 651-655. | 12.6 | 720 |
| 2 | Sufficient oxygen for animal respiration 1,400 million years ago. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1731-1736. | 7.1 | 259 |
| 3 | EVIDENCE FOR MAGNESIUM ISOTOPE HETEROGENEITY IN THE SOLAR PROTOPLANETARY DISK. Astrophysical Journal Letters, 2011, 735, L37. | 8.3 | 253 |
| 4 | Early planetesimal melting from an age of 4.5662â€‰Gyr for differentiated meteorites. Nature, 2005, 436, 1127-1131. | 27.8 | 242 |
| 5 | An orphaned basement block: The Arequipa-Antofalla Basement of the central Andean margin of South America. Bulletin of the Geological Society of America, 2004, 116, 171. | 3.3 | 210 |
| 6 | Chronological evidence that the Moon is either young or did not have a global magma ocean. Nature, 2011, 477, 70-72. | 27.8 | 202 |
| 7 | Early formation of planetary building blocks inferred from Pb isotopic ages of chondrules. Science Advances, 2017, 3, e1700407. | 10.3 | 174 |
| 8 | The Age of the Carbonates in Martian Meteorite ALH84001. Science, 1999, 286, 90-94. | 12.6 | 163 |
| 9 | The Nagssugtoqidian Orogen of West Greenland: tectonic evolution and regional correlations from a West Greenland perspective. Canadian Journal of Earth Sciences, 2002, 39, 665-686. | 1.3 | 150 |
| 10 | Uranium isotopes distinguish two geochemically distinct stages during the later Cambrian SPICE event. Earth and Planetary Science Letters, 2014, 401, 313-326. | 4.4 | 134 |
| 11 | Chronology of the Solar System's Oldest Solids. Astrophysical Journal, 2008, 675, L121-L124. | 4.5 | 130 |
| 12 | Eastern Laurentia in Rodinia: constraints from whole-rock Pb and U/Pb geochronology. Tectonophysics, 2003, 375, 169-197. | 2.2 | 129 |
| 13 | Early accretion of protoplanets inferred from a reduced inner solar system 26Al inventory. Earth and Planetary Science Letters, 2015, 420, 45-54. | 4.4 | 112 |
| 14 | Evidence for extremely rapid magma ocean crystallization and crust formation on Mars. Nature, 2018, 558, 586-589. | 27.8 | 111 |
| 15 | Orbital forcing of climate 1.4 billion years ago. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1406-13. | 7.1 | 110 |
| 16 | Evidence for a Late Supernova Injection of 60Fe into the Protoplanetary Disk. Science, 2007, 316, 1178-1181. | 12.6 | 108 |
| 17 | Pbâ€Pb dating of individual chondrules from the <scp>CB</scp><sub>a</sub> chondrite Gujba: Assessment of the impact plume formation model. Meteoritics and Planetary Science, 2015, 50, 1197-1216. | 1.6 | 104 |
| 18 | Degree of preservation of igneous zonation in zircon as a signpost for concordancy in U/Pb geochronology. Chemical Geology, 2001, 172, 25-39. | 3.3 | 98 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Duration of Late Cretaceousâ€“early Tertiary magmatism in east-central Sonora, Mexico. Bulletin of the Geological Society of America, 2001, 113, 521-531. | 3.3 | 93 |
| 20 | A method for purifying Lu and Hf for analyses by MC-ICP-MS using TODGA resin. Chemical Geology, 2006, 233, 126-136. | 3.3 | 93 |
| 21 | Timing and characterization of recurrent pre-Sveconorwegian metamorphism and deformation in the Varbergâ€“Halmstad region of SW Sweden. Precambrian Research, 1999, 98, 173-195. | 2.7 | 88 |
| 22 | Pbâ€“Pb chronometry and the early Solar System. Geochimica Et Cosmochimica Acta, 2017, 201, 345-363. | 3.9 | 86 |
| 23 | Implications of garnet resorption for the Lu-Hf garnet geochronometer: an example from the contact aureole of the Makhavinekh Lake Pluton, Labrador. Journal of Metamorphic Geology, 2011, 29, 901-916. | 3.4 | 80 |
| 24 | Temporal evolution of a deeply eroded orogen: the Nagssugtoqidian Orogen, West Greenland. Canadian Journal of Earth Sciences, 2000, 37, 1121-1142. | 1.3 | 78 |
| 25 | Atmosphereâ€“ocean oxygen and productivity dynamics during early animal radiations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19352-19361. | 7.1 | 72 |
| 26 | The Pbâ€“Pb age of Angrite SAH99555 revisited. Geochimica Et Cosmochimica Acta, 2008, 72, 4813-4824. | 3.9 | 70 |
| 27 | Long-term convergence along SW fennoscandia: 330m.y. of proterozoic crustal growth. Precambrian Research, 2008, 161, 452-474. | 2.7 | 69 |
| 28 | Uî—¸Pb geochronological constraints on the tectonic evolution of the Grenville Province, western Labrador. Precambrian Research, 1993, 63, 123-142. | 2.7 | 65 |
| 29 | Lead isotope evidence for a young formation age of the Earthâ€“Moon system. Earth and Planetary Science Letters, 2016, 452, 36-43. | 4.4 | 62 |
| 30 | Contrasting tectonic styles in the northern Grenville province: Implications for the dynamics of orogenic fronts. Geology, 1993, 21, 1127. | 4.4 | 60 |
| 31 | <sup>182</sup> Hfâ€“ <sup>182</sup> W age dating of a <sup>26</sup> Al-poor inclusion and implications for the origin of short-lived radioisotopes in the early Solar System. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8819-8823. | 7.1 | 60 |
| 32 | The Loch Maree Group: Palaeoproterozoic subductionâ€“accretion complex in the Lewisian of NW Scotland. Precambrian Research, 2001, 105, 205-226. | 2.7 | 59 |
| 33 | Coats Land crustal block, East Antarctica: A tectonic tracer for Laurentia?. Geology, 2011, 39, 859-862. | 4.4 | 58 |
| 34 | Refined Ordovician timescale reveals no link between asteroid breakup and biodiversification. Nature Communications, 2017, 8, 14066. | 12.8 | 53 |
| 35 | Evolution of Archean components in the Paleoproterozoic Nagssugtoqidian orogen, West Greenland. Bulletin of the Geological Society of America, 2000, 112, 747-763. | 3.3 | 50 |
| 36 | Reorganisation of Earthâ€™s biogeochemical cycles brieï¬‚y oxygenated the oceans 520 Myr ago. Geochemical Perspectives Letters, 2017, , 210-220. | 5.0 | 50 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | <sup>40</sup> Ar/ <sup>39</sup> Ar, Uâ€“Pb, and Smâ€“Nd constraints on the timing of metamorphic events in the Maksyutov Complex, southern Ural Mountains. Journal of the Geological Society, 2000, 157, 811-822. | 2.1 | 49 |
| 38 | Linking the Palaeoproterozoic Nagssugtoqidian and Rinkian orogens through the Disko Bugt region of West Greenland. Journal of the Geological Society, 2006, 163, 319-335. | 2.1 | 47 |
| 39 | Prograde, peak, and retrograde P-T paths from aluminium in orthopyroxene: High-temperature contact metamorphism in the aureole of the Makhavinekh Lake Pluton, Nain Plutonic Suite, Labrador. Journal of Metamorphic Geology, 2003, 21, 405-423. | 3.4 | 44 |
| 40 | Significance of crustal-scale shear zones and synkinematic mafic dykes in the Nagssugtoqidian orogen, SW Greenland: a re-examination. Journal of Structural Geology, 1997, 19, 59-75. | 2.3 | 41 |
| 41 | First isotopic (U-Pb) age for the Late CretaceousAlamosaurusvertebrate fauna of west Texas, and its significance as a link between two faunal provinces. Journal of Vertebrate Paleontology, 2006, 26, 922-928. | 1.0 | 40 |
| 42 | Contrasting response of monazite and zircon to a high-T thermal overprint. Lithos, 2006, 88, 135-149. | 1.4 | 40 |
| 43 | Pbâ€“Pb dating of chondrules from CV chondrites by progressive dissolution. Chemical Geology, 2009, 259, 143-151. | 3.3 | 40 |
| 44 | Detrital zircon, detrital titanite and igneous clast Uâ€“Pb geochronology and basementâ€“cover relationships of the Colonsay Group, SW Scotland: Laurentian provenance and correlation with the Neoproterozoic Dalradian Supergroup. Precambrian Research, 2010, 181, 21-42. | 2.7 | 39 |
| 45 | Combined U-corrected Pb-Pb dating and 26Al-26Mg systematics of individual chondrules â€“ Evidence for a reduced initial abundance of 26Al amongst inner Solar System chondrules. Geochimica Et Cosmochimica Acta, 2019, 260, 62-83. | 3.9 | 37 |
| 46 | Chronologic implications for slow cooling of troctolite 76535 and temporal relationships between the Mg-suite and the ferroan anorthosite suite. Geochimica Et Cosmochimica Acta, 2017, 201, 377-391. | 3.9 | 36 |
| 47 | Monazite and xenotime petrogenesis in the contact aureole of the Makhavinekh Lake Pluton, northern Labrador. Contributions To Mineralogy and Petrology, 2005, 148, 524-541. | 3.1 | 35 |
| 48 | Rapid determination of Pb isotopes to define Precambrian allochthonous domains: An example from West Greenland. Geology, 2005, 33, 953. | 4.4 | 35 |
| 49 | Intracrystalline redistribution of Pb in zircon during high-temperature contact metamorphism. Chemical Geology, 2005, 217, 1-28. | 3.3 | 34 |
| 50 | Uraniumâ€“lead isotope systematics of Mars inferred from the basaltic shergottite QUE 94201. Geochimica Et Cosmochimica Acta, 2007, 71, 5016-5031. | 3.9 | 34 |
| 51 | The internal structure and geodynamics of Mars inferred from a 4.2-Gyr zircon record. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30973-30979. | 7.1 | 33 |
| 52 | Thermotectonic evolution of the Grenville Province of western Labrador. Tectonics, 1995, 14, 202-217. | 2.8 | 31 |
| 53 | Thermotectonic evolution of the Eastern Segment of southwestern Sweden: tectonic constraints from U-Pb geochronology. Geological Society Special Publication, 1996, 112, 297-313. | 1.3 | 29 |
| 54 | ORIGIN OF EXCESS176Hf IN METEORITES. Astrophysical Journal, 2010, 717, 861-867. | 4.5 | 29 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Uranium isotope compositions of biogenic carbonates â€“ Implications for U uptake in shells and the application of the paleo-ocean oxygenation proxy. Geochimica Et Cosmochimica Acta, 2020, 287, 50-64. | 3.9 | 28 |
| 56 | Late Archean evolution of the Nain Province, Nain, Labrador: imprint of a collision. Canadian Journal of Earth Sciences, 1996, 33, 1325-1342. | 1.3 | 26 |
| 57 | Excess hafniumâ€176 in meteorites and the early Earth zircon record. Geochemistry, Geophysics, Geosystems, 2012, 13, . | 2.5 | 24 |
| 58 | The Mesoproterozoic cratonization of Baltica â€" new age constraints from SW Sweden. Geological Society Special Publication, 1996, 112, 261-273. | 1.3 | 23 |
| 59 | Paleoproterozoic lithotectonic divisions of the southeastern Churchill Province, western Labrador. Canadian Journal of Earth Sciences, 1996, 33, 216-230. | 1.3 | 22 |
| 60 | Late thermal evolution of Proterozoic rocks in the northeastern Llano Uplift, central Texas. Precambrian Research, 1999, 94, 49-72. | 2.7 | 21 |
| 61 | Extension of Laramide magmatism in southwestern North America into Trans-Pecos Texas. Geology, 2003, 31, 447. | 4.4 | 19 |
| 62 | Volatile element evolution of chondrules through time. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8547-8552. | 7.1 | 19 |
| 63 | Testing accretion mechanisms of the H chondrite parent body utilizing nucleosynthetic anomalies. Meteoritics and Planetary Science, 2019, 54, 1215-1227. | 1.6 | 19 |
| 64 | Pbâ€Pb ages and initial Pb isotopic composition of lunar meteorites: NWA 773 clan, NWA 4734, and Dhofar 287. Meteoritics and Planetary Science, 2020, 55, 1808-1832. | 1.6 | 18 |
| 65 | Correlation chart of the Proterozoic assembly of the northeastern Canadian - Greenland Shield. Canadian Journal of Earth Sciences, 2002, 39, 895. | 1.3 | 15 |
| 66 | Chondrules: Ubiquitous Chondritic Solids Tracking the Evolution of the Solar Protoplanetary Disk. Astrophysics and Space Science Library, 2017, , 161-195. | 2.7 | 14 |
| 67 | Evaluating the robustness of a consensus 238U/235U value for U-Pb geochronology. Geochimica Et Cosmochimica Acta, 2018, 237, 171-183. | 3.9 | 14 |
| 68 | Constraints on the timing of deformation, magmatism and metamorphism in the Dalradian of NE Scotland. Scottish Journal of Geology, 2012, 48, 103-117. | 0.1 | 13 |
| 69 | Strain rates at high temporal resolution from curved inclusion trails in garnet, Passo del Sole, Central Swiss Alps. Journal of Metamorphic Geology, 2013, 31, 243-262. | 3.4 | 13 |
| 70 | Age and tectonic implications of Paleoproterozoic granitoid intrusions within the Nain Province near Nain, Labrador. Canadian Journal of Earth Sciences, 1999, 36, 833-853. | 1.3 | 11 |
| 71 | Pb isotope evidence for rapid accretion and differentiation of planetary embryos. Earth and Planetary Science Letters, 2019, 525, 115722. | 4.4 | 11 |
| 72 | Dental Caries in Rome, 50â€"100 AD. Caries Research, 2012, 46, 467-473. | 2.0 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Lead and Mg isotopic age constraints on the evolution of the <scp>HED</scp> parent body. Meteoritics and Planetary Science, 2017, 52, 1233-1243. | 1.6 | 7 |
| 74 | The Absolute Pbâ€“Pb Isotope Ages of Chondrules. , 0, , 300-323. | | 5 |
| 75 | Improved methods for high-precision Pbâ€“Pb dating of extra-terrestrial materials. Journal of Analytical Atomic Spectrometry, 2021, 36, 2579-2587. | 3.0 | 4 |
| 76 | Calibrating volatile loss from the Moon using the U-Pb system. Geochimica Et Cosmochimica Acta, 2022, 324, 1-16. | 3.9 | 2 |
| 77 | Adjusting the Solar System's Absolute Clock. Science, 2010, 327, 422-423. | 12.6 | 1 |
| 78 | Episodic rapakivi magmatism due to distal orogenesis?: Correlation of 1.69â€“1.50 Ga orogenic and inboard, â€œanorogenicâ€•events in the Baltic Shield. Geology, 2000, 28, 823-826. | 4.4 | 1 |