James Connelly

List of Publications by Year in descending order

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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	Calibrating volatile loss from the Moon using the U-Pb system. Geochimica Et Cosmochimica Acta, 2022, 324, 1-16.	3.9	2
2	Improved methods for high-precision Pbâ€“Pb dating of extra-terrestrial materials. Journal of Analytical Atomic Spectrometry, 2021, 36, 2579-2587.	3.0	4
3	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
4	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
5	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
6	Pb isotope evidence for rapid accretion and differentiation of planetary embryos. Earth and Planetary Science Letters, 2019, 525, 115722.	4.4	11
7	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
8	Testing accretion mechanisms of the H chondrite parent body utilizing nucleosynthetic anomalies. Meteoritics and Planetary Science, 2019, 54, 1215-1227.	1.6	19
9	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
10	Evidence for extremely rapid magma ocean crystallization and crust formation on Mars. Nature, 2018, 558, 586-589.	27.8	111
11	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
12	Evaluating the robustness of a consensus 238U/235U value for U-Pb geochronology. Geochimica Et Cosmochimica Acta, 2018, 237, 171-183.	3.9	14
13	Refined Ordovician timescale reveals no link between asteroid breakup and biodiversification. Nature Communications, 2017, 8, 14066.	12.8	53
14	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
15	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
16	Early formation of planetary building blocks inferred from Pb isotopic ages of chondrules. Science Advances, 2017, 3, e1700407.	10.3	174
17	Chondrules: Ubiquitous Chondritic Solids Tracking the Evolution of the Solar Protoplanetary Disk. Astrophysics and Space Science Library, 2017, , 161-195.	2.7	14
18	Pbâ€“Pb chronometry and the early Solar System. Geochimica Et Cosmochimica Acta, 2017, 201, 345-363.	3.9	86

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19	Reorganisation of Earthâ€™s biogeochemical cycles brieï¬,y oxygenated the oceans 520 Myr ago. Geochemical Perspectives Letters, 2017, , 210-220.	5.0	50
20	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
21	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
22	Pbâ€Pb dating of individual chondrules from the <scp>CB</scp>_a chondrite Gujba: Assessment of the impact plume formation model. Meteoritics and Planetary Science, 2015, 50, 1197-1216.	1.6	104
23	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
24	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
25	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
26	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
27	¹⁸² Hfâ€“ ¹⁸² W age dating of a ²⁶ 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
28	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
29	Dental Caries in Rome, 50â€“100 AD. Caries Research, 2012, 46, 467-473.	2.0	9
30	Excess hafniumâ€176 in meteorites and the early Earth zircon record. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	24
31	The Absolute Chronology and Thermal Processing of Solids in the Solar Protoplanetary Disk. Science, 2012, 338, 651-655.	12.6	720
32	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
33	Chronological evidence that the Moon is either young or did not have a global magma ocean. Nature, 2011, 477, 70-72.	27.8	202
34	Coats Land crustal block, East Antarctica: A tectonic tracer for Laurentia?. Geology, 2011, 39, 859-862.	4.4	58
35	EVIDENCE FOR MAGNESIUM ISOTOPE HETEROGENEITY IN THE SOLAR PROTOPLANETARY DISK. Astrophysical Journal Letters, 2011, 735, L37.	8.3	253
36	ORIGIN OF EXCESS176Hf IN METEORITES. Astrophysical Journal, 2010, 717, 861-867.	4.5	29

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37	Adjusting the Solar System's Absolute Clock. Science, 2010, 327, 422-423.	12.6	1
38	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
39	Pbâ€“Pb dating of chondrules from CV chondrites by progressive dissolution. Chemical Geology, 2009, 259, 143-151.	3.3	40
40	Long-term convergence along SW fennoscandia: 330m.y. of proterozoic crustal growth. Precambrian Research, 2008, 161, 452-474.	2.7	69
41	The Pbâ€“Pb age of Angrite SAH99555 revisited. Geochimica Et Cosmochimica Acta, 2008, 72, 4813-4824.	3.9	70
42	Chronology of the Solar System's Oldest Solids. Astrophysical Journal, 2008, 675, L121-L124.	4.5	130
43	Evidence for a Late Supernova Injection of 60Fe into the Protoplanetary Disk. Science, 2007, 316, 1178-1181.	12.6	108
44	Uraniumâ€“lead isotope systematics of Mars inferred from the basaltic shergottite QUE 94201. Geochimica Et Cosmochimica Acta, 2007, 71, 5016-5031.	3.9	34
45	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
46	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
47	Contrasting response of monazite and zircon to a high-T thermal overprint. Lithos, 2006, 88, 135-149.	1.4	40
48	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
49	Early planetesimal melting from an age of 4.5662â€‰Gyr for differentiated meteorites. Nature, 2005, 436, 1127-1131.	27.8	242
50	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
51	Rapid determination of Pb isotopes to define Precambrian allochthonous domains: An example from West Greenland. Geology, 2005, 33, 953.	4.4	35
52	Intracrystalline redistribution of Pb in zircon during high-temperature contact metamorphism. Chemical Geology, 2005, 217, 1-28.	3.3	34
53	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
54	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

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55	Eastern Laurentia in Rodinia: constraints from whole-rock Pb and U/Pb geochronology. Tectonophysics, 2003, 375, 169-197.	2.2	129
56	Extension of Laramide magmatism in southwestern North America into Trans-Pecos Texas. Geology, 2003, 31, 447.	4.4	19
57	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
58	Correlation chart of the Proterozoic assembly of the northeastern Canadian - Greenland Shield. Canadian Journal of Earth Sciences, 2002, 39, 895.	1.3	15
59	The Loch Maree Group: Palaeoproterozoic subductionâ€“accretion complex in the Lewisian of NW Scotland. Precambrian Research, 2001, 105, 205-226.	2.7	59
60	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
61	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
62	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
63	⁴⁰ Ar/ ³⁹ 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
64	Temporal evolution of a deeply eroded orogen: the Nagssugtoqidian Orogen, West Greenland. Canadian Journal of Earth Sciences, 2000, 37, 1121-1142.	1.3	78
65	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
66	The Age of the Carbonates in Martian Meteorite ALH84001. Science, 1999, 286, 90-94.	12.6	163
67	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
68	Late thermal evolution of Proterozoic rocks in the northeastern Llano Uplift, central Texas. Precambrian Research, 1999, 94, 49-72.	2.7	21
69	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
70	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
71	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
72	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

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73	Paleoproterozoic lithotectonic divisions of the southeastern Churchill Province, western Labrador. Canadian Journal of Earth Sciences, 1996, 33, 216-230.	1.3	22
74	The Mesoproterozoic cratonization of Baltica â€" new age constraints from SW Sweden. Geological Society Special Publication, 1996, 112, 261-273.	1.3	23
75	Thermotectonic evolution of the Grenville Province of western Labrador. Tectonics, 1995, 14, 202-217.	2.8	31
76	Uî—¸Pb geochronological constraints on the tectonic evolution of the Grenville Province, western Labrador. Precambrian Research, 1993, 63, 123-142.	2.7	65
77	Contrasting tectonic styles in the northern Grenville province: Implications for the dynamics of orogenic fronts. Geology, 1993, 21, 1127.	4.4	60
78	The Absolute Pbâ€“Pb Isotope Ages of Chondrules. , 0, , 300-323.		5