

# James R. Darling

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,399  
citations

279798

23  
h-index

345221

36  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1503  
citing authors

#	ARTICLE	IF	CITATIONS
1	Concurrent Pb–Hf isotope analysis of zircon by laser ablation multi-collector ICP-MS, with implications for the crustal evolution of Greenland and the Himalayas. <i>Chemical Geology</i> , 2009, 261, 244-260.	3.3	164
2	Solving the Martian meteorite age conundrum using micro-baddeleyite and launch-generated zircon. <i>Nature</i> , 2013, 499, 454-457.	27.8	84
3	Multiple Metamorphic Stages within an Eclogite-facies Terrane (Sesia Zone, Western Alps) Revealed by Th–U–Pb Petrochronology. <i>Journal of Petrology</i> , 2014, 55, 1429-1456.	2.8	76
4	Apatite trace element and isotope applications to petrogenesis and provenance. <i>American Mineralogist</i> , 2017, 102, 75-84.	1.9	76
5	Impact melt sheet zircons and their implications for the Hadean crust. <i>Geology</i> , 2009, 37, 927-930.	4.4	54
6	Allanite U–Th–Pb geochronology by laser ablation ICPMS. <i>Chemical Geology</i> , 2012, 292-293, 103-115.	3.3	46
7	Variable microstructural response of baddeleyite to shock metamorphism in young basaltic shergottite NWA 5298 and improved U–Pb dating of Solar System events. <i>Earth and Planetary Science Letters</i> , 2016, 444, 1-12.	4.4	46
8	Permian high-temperature metamorphism in the Western Alps (NW Italy). <i>International Journal of Earth Sciences</i> , 2018, 107, 203-229.	1.8	46
9	Direct dating of mid-crustal shear zones with synkinematic allanite: new <i>in situ</i> U–Th–Pb geochronological approaches applied to the Mont Blanc massif. <i>Terra Nova</i> , 2014, 26, 29-37.	2.1	43
10	Dating shear zones with plastically deformed titanite: New insights into the orogenic evolution of the Sudbury impact structure (Ontario, Canada). <i>Precambrian Research</i> , 2017, 291, 220-235.	2.7	42
11	Atomic-scale age resolution of planetary events. <i>Nature Communications</i> , 2017, 8, 15597.	12.8	40
12	From Permo-Triassic lithospheric thinning to Jurassic rifting at the Adriatic margin: Petrological and geochronological record in Valtourneche (Western Italian Alps). <i>Lithos</i> , 2012, 146-147, 276-292.	1.4	38
13	Isotopic heterogeneity in the Sudbury impact melt sheet. <i>Earth and Planetary Science Letters</i> , 2010, 289, 347-356.	4.4	37
14	In-situ Pb isotope analysis of Fe–Ni–Cu sulphides by laser ablation multi-collector ICPMS: New insights into ore formation in the Sudbury impact melt sheet. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 99, 1-17.	3.9	34
15	Eoarchean to Neoproterozoic evolution of the Nuvvuagittuq Supracrustal belt: New insights from U-Pb zircon geochronology. <i>Numerische Mathematik</i> , 2013, 313, 844-876.	1.4	34
16	Shallow impact: Isotopic insights into crustal contributions to the Sudbury impact melt sheet. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5680-5696.	3.9	29
17	Cadmium distribution in Pb-Zn slags from Upper Silesia, Poland: Implications for cadmium mobility from slag phases to the environment. <i>Journal of Geochemical Exploration</i> , 2018, 186, 215-224.	3.2	27
18	Decline of giant impacts on Mars by 4.48 billion years ago and an early opportunity for habitability. <i>Nature Geoscience</i> , 2019, 12, 522-527.	12.9	25

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19	Two billion years of evolution enclosed in hydrothermal rutile: Recycling of the São Francisco Craton Crust and constraints on gold remobilisation processes. <i>Gondwana Research</i> , 2019, 68, 69-92.	6.0	25
20	Evidence of extensive lunar crust formation in impact melt sheets 4,330 Myr ago. <i>Nature Astronomy</i> , 2020, 4, 974-978.	10.1	25
21	A split laryngeal mask as an aid to training in fiberoptic tracheal intubation. <i>Anaesthesia</i> , 1993, 48, 1079-1082.	3.8	23
22	U–Pb isotopic dating of titanite microstructures: potential implications for the chronology and identification of large impact structures. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	23
23	Detrital rutile ages can deduce the tectonic setting of sedimentary basins. <i>Earth and Planetary Science Letters</i> , 2020, 537, 116193.	4.4	23
24	Baddeleyite as a widespread and sensitive indicator of meteorite bombardment in planetary crusts. <i>Geology</i> , 2018, 46, 719-722.	4.4	21
25	Shock-induced microtextures in lunar apatite and merrillite. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1262-1282.	1.6	21
26	The Effect of Isoflurane or Spinal Anesthesia on Indocyanine Green Disappearance Rate in the Elderly. <i>Anesthesia and Analgesia</i> , 1994, 78, 706-709.	2.2	16
27	Protracted Shearing at Midcrustal Conditions During Large-Scale Thrusting in the Scandinavian Caledonides. <i>Tectonics</i> , 2020, 39, e2020TC006267.	2.8	16
28	Redistribution of REE, Y, Th, and U at high pressure: Allanite-forming reactions in impure meta-quartzites (Sesia Zone, Western Italian Alps). <i>American Mineralogist</i> , 2012, 97, 315-328.	1.9	15
29	Silurian–Devonian magmatism, mineralization, regional exhumation and brittle strike-slip deformation along the Loch Shin Line, NW Scotland. <i>Journal of the Geological Society</i> , 2015, 172, 748-762.	2.1	15
30	Detrital rutile tracks the first appearance of subduction zone low T/P paired metamorphism in the Palaeoproterozoic. <i>Earth and Planetary Science Letters</i> , 2021, 570, 117069.	4.4	15
31	Zircon perspectives on the age and origin of evolved S-type granites from the Cornubian Batholith, Southwest England. <i>Lithos</i> , 2019, 336-337, 14-26.	1.4	13
32	The shocking state of apatite and merrillite in shergottite Northwest Africa 5298 and extreme nanoscale chlorine isotope variability revealed by atom probe tomography. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 293, 422-437.	3.9	13
33	Serum mitochondrial aspartate transaminase activity after isoflurane or halothane anaesthesia. <i>British Journal of Anaesthesia</i> , 2000, 85, 195-198.	3.4	12
34	Preservation of primordial signatures of water in highly-shocked ancient lunar rocks. <i>Earth and Planetary Science Letters</i> , 2020, 544, 116364.	4.4	12
35	Split laryngeal mask airway as an aid to fiberoptic intubation. <i>Anaesthesia</i> , 1993, 48, 79-79.	3.8	11
36	Polyorogenic reworking of ore-controlling shear zones at the South Range of the Sudbury impact structure: A telltale story from in situ U–Pb titanite geochronology. <i>Terra Nova</i> , 2018, 30, 254-261.	2.1	11

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37	Serum glutathione S-transferase concentrations and creatinine clearance after sevoflurane anaesthesia. <i>Anaesthesia</i> , 1997, 52, 121-126.	3.8	9
38	Crystallization and impact history of a meteoritic sample of early lunar crust (NWA 3163) refined by atom probe geochronology. <i>Geoscience Frontiers</i> , 2019, 10, 1841-1848.	8.4	9
39	Lunar samples record an impact 4.2 billion years ago that may have formed the Serenitatis Basin. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	6.8	9
40	Discovery of mafic impact melt in the center of the Vredefort dome: Archetype for continental residua of early Earth cratering?. <i>Geology</i> , 2014, 42, 403-406.	4.4	7
41	Exploring relationships between shock-induced microstructures and H <sub>2</sub> O and Cl in apatite grains from eucrite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 302, 120-140.	3.9	7
42	Dating martian mafic crust; microstructurally constrained baddeleyite geochronology of enriched shergottites Northwest Africa (NWA) 7257, NWA 8679 and Zagami. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 315, 73-88.	3.9	7
43	Developing Atom Probe Tomography of Phyllosilicates in Preparation for Extra-Terrestrial Sample Return. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 427-441.	3.1	5
44	Highly accurate dating of micrometre-scale baddeleyite domains through combined focused ion beam extraction and U-Pb thermal ionization mass spectrometry (FIB-TIMS). <i>Geochronology</i> , 2020, 2, 177-186.	2.5	5
45	Response to the scientific comment by Dickin on $\delta^{137}\text{Cs}$ isotopic heterogeneity in the Sudbury impact melt sheet. [EPSL 289 (2010) 347-356]. <i>Earth and Planetary Science Letters</i> , 2010, 300, 44-45.	4.4	1