James R. Darling

List of Publications by Year
in descending order

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	The shocking state of apatite and merrillite in shergottite Northwest Africa 5298 and extreme nanoscale chlorine isotope variability revealed by atom probe tomography. Geochimica Et Cosmochimica Acta, 2021, 293, 422-437.	3.9	13
2	Developing Atom Probe Tomography of Phyllosilicates in Preparation for Extraâ€Terrestrial Sample Return. Geostandards and Geoanalytical Research, 2021, 45, 427-441.	3.1	5
3	Lunar samples record an impact 4.2 billion years ago that may have formed the Serenitatis Basin. Communications Earth & Environment, 2021, 2, .	6.8	9
4	Exploring relationships between shock-induced microstructures and H2O and Cl in apatite grains from eucrite meteorites. Geochimica Et Cosmochimica Acta, 2021, 302, 120-140.	3.9	7
5	Detrital rutile tracks the first appearance of subduction zone low T/P paired metamorphism in the Palaeoproterozoic. Earth and Planetary Science Letters, 2021, 570, 117069.	4.4	15
6	Dating martian mafic crust; microstructurally constrained baddeleyite geochronology of enriched shergottites Northwest Africa (NWA) 7257, NWA 8679 and Zagami. Geochimica Et Cosmochimica Acta, 2021, 315, 73-88.	3.9	7
7	Protracted Shearing at Midcrustal Conditions During Largeâ€Scale Thrusting in the Scandinavian Caledonides. Tectonics, 2020, 39, e2020TC006267.	2.8	16
8	Evidence of extensive lunar crust formation in impact melt sheets 4,330 Myr ago. Nature Astronomy, 2020, 4, 974-978.	10.1	25
9	Detrital rutile ages can deduce the tectonic setting of sedimentary basins. Earth and Planetary Science Letters, 2020, 537, 116193.	4.4	23
10	Preservation of primordial signatures of water in highly-shocked ancient lunar rocks. Earth and Planetary Science Letters, 2020, 544, 116364.	4.4	12
11	Highly accurate dating of micrometre-scale baddeleyite domains through combined focused ion beam extraction and Uâ€“Pb thermal ionization mass spectrometry (FIB-TIMS). Geochronology, 2020, 2, 177-186.	2.5	5
12	Decline of giant impacts on Mars by 4.48 billion years ago and an early opportunity for habitability. Nature Geoscience, 2019, 12, 522-527.	12.9	25
13	Zircon perspectives on the age and origin of evolved S-type granites from the Cornubian Batholith, Southwest England. Lithos, 2019, 336-337, 14-26.	1.4	13
14	Shockâ€induced microtextures in lunar apatite and merrillite. Meteoritics and Planetary Science, 2019, 54, 1262-1282.	1.6	21
15	Crystallization and impact history of a meteoritic sample of early lunar crust (NWA 3163) refined by atom probe geochronology. Geoscience Frontiers, 2019, 10, 1841-1848.	8.4	9
16	Two billion years of evolution enclosed in hydrothermal rutile: Recycling of the SÃ£o Francisco Craton Crust and constraints on gold remobilisation processes. Gondwana Research, 2019, 68, 69-92.	6.0	25
17	Polyorogenic reworking of oreâ€controlling shear zones at the South Range of the Sudbury impact structure: A telltale story from inÂsitu Uâ€“Pb titanite geochronology. Terra Nova, 2018, 30, 254-261.	2.1	11
18	Cadmium distribution in Pb-Zn slags from Upper Silesia, Poland: Implications for cadmium mobility from slag phases to the environment. Journal of Geochemical Exploration, 2018, 186, 215-224.	3.2	27

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19	Permian high-temperature metamorphism in the Western Alps (NW Italy). International Journal of Earth Sciences, 2018, 107, 203-229.	1.8	46
20	Baddeleyite as a widespread and sensitive indicator of meteorite bombardment in planetary crusts. Geology, 2018, 46, 719-722.	4.4	21
21	Uâ€“Pb isotopic dating of titanite microstructures: potential implications for the chronology and identification of large impact structures. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	23
22	Dating shear zones with plastically deformed titanite: New insights into the orogenic evolution of the Sudbury impact structure (Ontario, Canada). Precambrian Research, 2017, 291, 220-235.	2.7	42
23	Atomic-scale age resolution of planetary events. Nature Communications, 2017, 8, 15597.	12.8	40
24	Apatite trace element and isotope applications to petrogenesis and provenance. American Mineralogist, 2017, 102, 75-84.	1.9	76
25	Variable microstructural response of baddeleyite to shock metamorphism in young basaltic shergottite NWA 5298 and improved Uâ€“Pb dating of Solar System events. Earth and Planetary Science Letters, 2016, 444, 1-12.	4.4	46
26	Silurianâ€“Devonian magmatism, mineralization, regional exhumation and brittle strike-slip deformation along the Loch Shin Line, NW Scotland. Journal of the Geological Society, 2015, 172, 748-762.	2.1	15
27	Multiple Metamorphic Stages within an Eclogite-facies Terrane (Sesia Zone, Western Alps) Revealed by Thâ€“Uâ€“Pb Petrochronology. Journal of Petrology, 2014, 55, 1429-1456.	2.8	76
28	Discovery of mafic impact melt in the center of the Vredefort dome: Archetype for continental residua of early Earth cratering?. Geology, 2014, 42, 403-406.	4.4	7
29	Direct dating of midâ€crustal shear zones with synkinematic allanite: new in situ Uâ€Thâ€Pb geochronological approaches applied to the Mont Blanc massif. Terra Nova, 2014, 26, 29-37.	2.1	43
30	Solving the Martian meteorite age conundrum using micro-baddeleyite and launch-generated zircon. Nature, 2013, 499, 454-457.	27.8	84
31	Eoarchean to Neoarchean evolution of the Nuvvuagittuq Supracrustal belt: New insights from U-Pb zircon geochronology. Numerische Mathematik, 2013, 313, 844-876.	1.4	34
32	Allanite Uâ€“Thâ€“Pb geochronology by laser ablation ICPMS. Chemical Geology, 2012, 292-293, 103-115.	3.3	46
33	Redistribution of REE, Y, Th, and U at high pressure: Allanite-forming reactions in impure meta-quartzites (Sesia Zone, Western Italian Alps). American Mineralogist, 2012, 97, 315-328.	1.9	15
34	In-situ Pb isotope analysis of Feâ€“Niâ€“Cu sulphides by laser ablation multi-collector ICPMS: New insights into ore formation in the Sudbury impact melt sheet. Geochimica Et Cosmochimica Acta, 2012, 99, 1-17.	3.9	34
35	From Permo-Triassic lithospheric thinning to Jurassic rifting at the Adriatic margin: Petrological and geochronological record in Valtournenche (Western Italian Alps). Lithos, 2012, 146-147, 276-292.	1.4	38
36	Shallow impact: Isotopic insights into crustal contributions to the Sudbury impact melt sheet. Geochimica Et Cosmochimica Acta, 2010, 74, 5680-5696.	3.9	29

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37	Isotopic heterogeneity in the Sudbury impact melt sheet. Earth and Planetary Science Letters, 2010, 289, 347-356.	4.4	37
38	Response to the scientific comment by Dickin on â€œIsotopic heterogeneity in the Sudbury impact melt sheetâ€•[EPSL 289 (2010) 347â€“356]. Earth and Planetary Science Letters, 2010, 300, 44-45.	4.4	1
39	Concurrent Pbâ€“Hf isotope analysis of zircon by laser ablation multi-collector ICP-MS, with implications for the crustal evolution of Greenland and the Himalayas. Chemical Geology, 2009, 261, 244-260.	3.3	164
40	Impact melt sheet zircons and their implications for the Hadean crust. Geology, 2009, 37, 927-930.	4.4	54
41	Serum mitochondrial aspartate transaminase activity after isoflurane or halothane anaesthesia. British Journal of Anaesthesia, 2000, 85, 195-198.	3.4	12
42	Serum glutathione Sâ€transferase concentrations and creatinine clearance after sevoflurane anaesthesia. Anaesthesia, 1997, 52, 121-126.	3.8	9
43	The Effect of Isoflurane or Spinal Anesthesia on Indocyanine Green Disappearance Rate in the Elderly. Anesthesia and Analgesia, 1994, 78, 706???709.	2.2	16
44	Split laryngeal mask airway as an aid to fibreoptic intubation. Anaesthesia, 1993, 48, 79-79.	3.8	11
45	A split laryngeal mask as an aid to training in fibreoptic tracheal intubation. Anaesthesia, 1993, 48, 1079-1082.	3.8	23