

# Duncan Pirrie

## List of Publications by Year in descending order

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81  
papers

2,603  
citations

186265  
28  
h-index

206112  
48  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid quantitative mineral and phase analysis using automated scanning electron microscopy (QemSCAN); potential applications in forensic geoscience. Geological Society Special Publication, 2004, 232, 123-136.	1.3	150
2	Campanian–Maastrichtian (Cretaceous) stratigraphy of the James Ross Island area, Antarctica. Journal of the Geological Society, 1991, 148, 1125-1140.	2.1	127
3	High latitude palaeotemperature variation: New data from the Thithonian to Eocene of James Ross Island, Antarctica. Palaeogeography, Palaeoclimatology, Palaeoecology, 1994, 107, 79-101.	2.3	125
4	The use of geoscience methods for terrestrial forensic searches. Earth-Science Reviews, 2012, 114, 108-123.	9.1	115
5	Maastrichtian stratigraphy of Antarctica. Cretaceous Research, 2004, 25, 411-423.	1.4	105
6	High-paleolatitude Late Cretaceous paleotemperatures: New data from James Ross Island, Antarctica. Geology, 1990, 18, 31.	4.4	99
7	Late Cretaceous stratigraphy of the Admiralty Sound region, James Ross Basin, Antarctica. Cretaceous Research, 1997, 18, 109-137.	1.4	99
8	A preliminary assessment of the hydrocarbon potential of the Larsen Basin, Antarctica. Marine and Petroleum Geology, 1988, 5, 34-53.	3.3	97
9	Late Cretaceous stratigraphy and sedimentology of Cape Lamb, Vega Island, Antarctica. Cretaceous Research, 1991, 12, 227-258.	1.4	85
10	Unlocking the applications of automated mineral analysis. Geology Today, 2011, 27, 226-235.	0.9	69
11	The spatial distribution and source of arsenic, copper, tin and zinc within the surface sediments of the Fal Estuary, Cornwall, UK. Sedimentology, 2003, 50, 579-595.	3.1	67
12	Mineralogical analysis and provenancing of ancient ceramics using automated SEM-EDS analysis (QEMSCAN®): a pilot study on LB I pottery from Akrotiri, Thera. Journal of Archaeological Science, 2011, 38, 219-232.	2.4	66
13	Cool Cretaceous climates: new data from the Albian of Western Australia. Journal of the Geological Society, 1995, 152, 739-742.	2.1	63
14	Geochemistry and mineralogy of arsenic in mine wastes and stream sediments in a historic metal mining area in the UK. Science of the Total Environment, 2014, 472, 226-234.	8.0	56
15	Shallow marine sedimentation within an active margin basin, James Ross Island, Antarctica. Sedimentary Geology, 1989, 63, 61-82.	2.1	53
16	Strontium isotope correlation of the basal Maastrichtian Stage in Antarctica to the European and US biostratigraphic schemes. Journal of the Geological Society, 1999, 156, 957-964.	2.1	51
17	Miocene glaciomarine sedimentation in the northern Antarctic Peninsula region: the stratigraphy and sedimentology of the Hobbs Glacier Formation, James Ross Island. Geological Magazine, 1997, 134, 745-762.	1.5	49
18	Late Cretaceous extinction patterns in Antarctica. Journal of the Geological Society, 1996, 153, 503-506.	2.1	46

#	ARTICLE	IF	CITATIONS
19	Cool early Albian climates; new data from Argentina. <i>Cretaceous Research</i> , 2004, 25, 27-33.	1.4	46
20	Stratigraphy and regional significance of the Upper Jurassic-Lower Cretaceous Byers Group, Livingston Island, Antarctica. <i>Journal of the Geological Society</i> , 1993, 150, 1075-1087.	2.1	45
21	Late Cretaceous (Maastrichtian) shallow water hydrocarbon seeps from Snow Hill and Seymour Islands, James Ross Basin, Antarctica. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 418, 213-228.	2.3	45
22	Carbonate concretions explained. <i>Geology Today</i> , 2013, 29, 53-62.	0.9	44
23	Trinitite redux: Mineralogy and petrology. <i>American Mineralogist</i> , 2015, 100, 427-441.	1.9	43
24	Testing the validity of chrome spinel chemistry as a provenance and petrogenetic indicator. <i>Geology</i> , 2000, 28, 1027.	4.4	41
25	Preliminary Jurassic and Cretaceous dinoflagellate cyst stratigraphy of the James Ross Island area, Antarctic Peninsula. <i>Newsletters on Stratigraphy</i> , 1992, 26, 19-39.	1.2	41
26	Diagenesis of Inoceramus and Late Cretaceous Paleoenvironmental Geochemistry: A Case Study from James Ross Island, Antarctica. <i>Palaios</i> , 1990, 5, 336.	1.3	39
27	Alluvial records of medieval and prehistoric tin mining on Dartmoor, southwest England. <i>Geoarchaeology - an International Journal</i> , 2004, 19, 219-236.	1.5	37
28	Marine High Mg Calcite Cements in Teredolites-Bored Fossil Wood; Evidence for Cool Paleoclimates in the Eocene La Meseta Formation, Seymour Island, Antarctica. <i>Palaios</i> , 1998, 13, 276.	1.3	31
29	Automated SEM-EDS (QEMSCAN®) Mineral Analysis in Forensic Soil Investigations: Testing Instrumental Reproducibility. , 2009, , 411-430.		31
30	Platinum-group element mineralization in an As-rich magmatic sulphide system, Talnoy, southwest Scotland. <i>Mineralogical Magazine</i> , 2004, 68, 395-411.	1.4	29
31	Field relationships and stable isotope geochemistry of concretions from James Ross Island, Antarctica. <i>Sedimentary Geology</i> , 1991, 71, 137-150.	2.1	26
32	Controls on the petrographic evolution of an active margin sedimentary sequence: the Larsen Basin, Antarctica. <i>Geological Society Special Publication</i> , 1991, 57, 231-249.	1.3	26
33	Platinum-group mineralization in the Rum layered intrusion, Scottish Hebrides, UK. <i>Journal of the Geological Society</i> , 1999, 156, 213-216.	2.1	26
34	Secondary mineral phases associated with a historic arsenic calciner identified using automated scanning electron microscopy; a pilot study from Cornwall, UK. <i>Minerals Engineering</i> , 2003, 16, 1269-1277.	4.3	26
35	Jurassic-Tertiary stratigraphy and palynology of the James Ross Basin: review and introduction. <i>Antarctic Science</i> , 1992, 4, 259-266.	0.9	25
36	Predictive geolocation: forensic soil analysis for provenance determination. <i>Episodes</i> , 2017, 40, 141-147.	1.2	24

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37	Petrography and provenance of the Marambio Group, Vega Island, Antarctica. <i>Antarctic Science</i> , 1994, 6, 517-527.	0.9	20
38	Geochemical signature of historical mining: Fowey Estuary, Cornwall, UK. <i>Journal of Geochemical Exploration</i> , 2002, 76, 31-43.	3.2	20
39	Stratigraphical distribution of platinum-group minerals in the Eastern Layered Series, Rum, Scotland. <i>Mineralium Deposita</i> , 2000, 35, 762-775.	4.1	19
40	A New Decapod Trackway from the Upper Cretaceous, James Ross Island, Antarctica. <i>Palaeontology</i> , 2004, 47, 01-12.	2.2	19
41	Cretaceous-Tertiary high-latitude palaeoenvironments, James Ross Basin, Antarctica: introduction. <i>Geological Society Special Publication</i> , 2006, 258, 1-5.	1.3	19
42	Marine volcanoclastics of the Hidden Lake Formation (Coniacian) of James Ross Island, Antarctica: an enigmatic element in the history of a back-arc basin. <i>Geological Society Special Publication</i> , 2006, 258, 21-47.	1.3	19
43	Late Jurassic palaeogeography and anaerobic-dysaerobic sedimentation in the northern Antarctic Peninsula region. <i>Journal of the Geological Society</i> , 1995, 152, 469-480.	2.1	18
44	Stable <sup>13</sup> C isotopic composition of skeletal carbonates from living Antarctic marine invertebrates. <i>Lethaia</i> , 1996, 29, 203-212.	1.4	17
45	Jurassic belemnite distribution patterns: implications of new data from Antarctica and Argentina. <i>Alcheringa</i> , 1997, 21, 219-228.	1.2	17
46	Automated Mineralogical Analysis of PM <sub>10</sub> : New Parameters for Assessing PM Toxicity. <i>Environmental Science &amp; Technology</i> , 2013, 47, 5570-5577.	10.0	17
47	Constraining the provenance of the Stonehenge "Altar Stone": Evidence from automated mineralogy and U <sup>235</sup> /Pb zircon age dating. <i>Journal of Archaeological Science</i> , 2020, 120, 105188.	2.4	17
48	Generation, transport and preservation of armoured mudballs in an ephemeral gully system. <i>Geomorphology</i> , 2008, 100, 104-119.	2.6	16
49	The mineralogy of efflorescence on As calciner buildings in SW England. <i>Mineralogical Magazine</i> , 2009, 73, 27-42.	1.4	16
50	Global developments in forensic geology. <i>Episodes</i> , 2017, 40, 120-131.	1.2	15
51	Relative oxygenation of the Tithonian "Valanginian Vaca Muerta" Chachao formations of the Mendoza Shelf, Neuquén Basin, Argentina. <i>Geological Society Special Publication</i> , 2005, 252, 185-206.	1.3	13
52	Mid-Cretaceous stratigraphy of the James Ross Basin, Antarctica. <i>Geological Society Special Publication</i> , 2006, 258, 7-19.	1.3	13
53	Environmental and criminal geoforensics: an introduction. <i>Geological Society Special Publication</i> , 2013, 384, 1-7.	1.3	12
54	A new sedimentological interpretation for part of the Santa Marta Formation, James Ross Island. <i>Antarctic Science</i> , 1990, 2, 77-78.	0.9	10

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55	Diversity of platinum-group element mineralization styles in the North Atlantic Igneous Province: new evidence from Rum, UK. <i>Geological Magazine</i> , 2003, 140, 499-512.	1.5	10
56	Reworked late Neogene <i>Austrochlamys anderssoni</i> (Mollusca: Bivalvia) from northern James Ross Island, Antarctica. <i>Antarctic Science</i> , 2011, 23, 180-187.	0.9	10
57	Identification and analysis of man-made geological product particles to aid forensic investigation of provenance in the built environment. <i>Forensic Science International</i> , 2019, 305, 109974.	2.2	10
58	Palynology of the James Ross Island area, Antarctic Peninsula. <i>Antarctic Science</i> , 1992, 4, 258-258.	0.9	9
59	Platinum-group mineralization in the Tertiary Igneous Province: new data from Mull and Skye, Scottish Inner Hebrides, UK. <i>Geological Magazine</i> , 2000, 137, 651-658.	1.5	9
60	A New Species of Glypheoid Lobster, <i>Pseudoglypheia Foersteri</i> (Decapoda: Astacidea: Mecochiridae) from the Lower Jurassic (Pliensbachian) of Raasay, Inner Hebrides, UK. <i>Palaeontology</i> , 2002, 45, 23-32.	2.2	9
61	Automated forensic soil mineral analysis; testing the potential of lithotyping. <i>Geological Society Special Publication</i> , 2013, 384, 47-64.	1.3	8
62	Issues and opportunities in urban forensic geology. <i>Geological Society Special Publication</i> , 2013, 384, 147-161.	1.3	8
63	Soil forensics as a tool to test reported artefact find sites. <i>Journal of Archaeological Science</i> , 2014, 41, 461-473.	2.4	8
64	An investigation to establish the source of the Roman lime mortars used in Wallsend, UK. <i>Construction and Building Materials</i> , 2019, 196, 611-625.	7.2	8
65	Belemnite Distribution Patterns. , 1999, , 419-436.		8
66	Linking derived debitage to the Stonehenge Altar Stone using portable X-ray fluorescence analysis. <i>Mineralogical Magazine</i> , 2022, 86, 688-700.	1.4	8
67	Testing the efficiency of soil recovery from clothing for analysis by SEM-EDS. <i>Forensic Science International</i> , 2018, 289, 83-91.	2.2	7
68	The Search for 'Fred' An Unusual Vertical Burial Case,. <i>Journal of Forensic Sciences</i> , 2019, 64, 1530-1539.	1.6	7
69	Platinum-group element mineralization within ultramafic rocks at Corrycharmaig, Perthshire: implications for the origin of the complex. <i>Scottish Journal of Geology</i> , 2000, 36, 143-150.	0.1	6
70	Forensic geology in serious crime investigation. <i>Geology Today</i> , 2009, 25, 188-192.	0.9	6
71	Automated mineralogical profiling of soils as an indicator of local bedrock lithology: a tool for predictive forensic geolocation. <i>Geological Society Special Publication</i> , 0, , SP492-2019-42.	1.3	6
72	Tracing the record of early alluvial tin mining on Dartmoor, UK. <i>Geological Society Special Publication</i> , 1999, 165, 91-102.	1.3	4

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73	Petrological and geochemical characterisation of the sarsen stones at Stonehenge. PLoS ONE, 2021, 16, e0254760.	2.5	4
74	Testing the validity of chrome spinel chemistry as a provenance and petrogenetic indicator. Geology, 2000, 28, 1027-1030.	4.4	4
75	Sediment dispersal patterns in a deep marine back-arc basin: evidence from heavy mineral provenance studies. Geological Society Special Publication, 1995, 94, 137-154.	1.3	3
76	Mud and metal; the impact of historical mining on the estuaries of SW England, UK. Geology Today, 2018, 34, 215-223.	0.9	2
77	Forensic geology at the International School Science Fair 2013. Geology Today, 2013, 29, 222-228.	0.9	1
78	The sampling and phase characterisation of black mass. TOS Forum, 2022, 2022, 397.	0.1	1
79	Composition and abundance of particles present on "powder-free" examination gloves. Forensic Science International, 2017, 279, 148-156.	2.2	0
80	William Smith's map brought alive by digital remastering. Geology Today, 2020, 36, 175-182.	0.9	0
81	Alteration fabrics and mineralogy as provenance indicators; the Stonehenge bluestone dolerites and their enigmatic "spots". Journal of Archaeological Science: Reports, 2021, 36, 102826.	0.5	0