

# John Parnell

## List of Publications by Year in descending order

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220  
papers

4,533  
citations

117571

34  
h-index

161767

54  
g-index

225  
all docs

225  
docs citations

225  
times ranked

4037  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact-generated hydrothermal systems on Earth and Mars. <i>Icarus</i> , 2013, 224, 347-363.	1.1	219
2	Weighing the deep continental biosphere. <i>FEMS Microbiology Ecology</i> , 2014, 87, 113-120.	1.3	211
3	Searching for Life on Mars: Selection of Molecular Targets for ESA's Aurora ExoMars Mission. <i>Astrobiology</i> , 2007, 7, 578-604.	1.5	172
4	The use of integrated fluid inclusion studies in constraining oil charge history and reservoir compartmentation: examples from the Jeanne d'Arc Basin, offshore Newfoundland. <i>Marine and Petroleum Geology</i> , 2001, 18, 535-549.	1.5	103
5	Early oxygenation of the terrestrial environment during the Mesoproterozoic. <i>Nature</i> , 2010, 468, 290-293.	13.7	97
6	Organic matter and containment of uranium and fissionogenic isotopes at the Oklo natural reactors. <i>Nature</i> , 1991, 354, 472-475.	13.7	92
7	Metal enrichments in solid bitumens: A review. <i>Mineralium Deposita</i> , 1988, 23, 191.	1.7	85
8	Raman spectroscopic analysis of cyanobacterial gypsum halotrophs and relevance for sulfate deposits on Mars. <i>Analyst</i> , 2005, 130, 917.	1.7	84
9	A case study of impact-induced hydrothermal activity: The Houghton impact structure, Devon Island, Canadian High Arctic. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1859-1877.	0.7	82
10	Geological overview and cratering model for the Houghton impact structure, Devon Island, Canadian High Arctic. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1759-1776.	0.7	74
11	Microbial colonization in impact-generated hydrothermal sulphate deposits, Houghton impact structure, and implications for sulphates on Mars. <i>International Journal of Astrobiology</i> , 2004, 3, 247-256.	0.9	71
12	Signal Enhancement of Surface Enhanced Raman Scattering and Surface Enhanced Resonance Raman Scattering Using in Situ Colloidal Synthesis in Microfluidics. <i>Analytical Chemistry</i> , 2010, 82, 2119-2123.	3.2	70
13	Clean access, measurement, and sampling of Ellsworth Subglacial Lake: A method for exploring deep Antarctic subglacial lake environments. <i>Reviews of Geophysics</i> , 2012, 50, .	9.0	63
14	The alteration of organic matter in response to ionising irradiation: Chemical trends and implications for extraterrestrial sample analysis. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1020-1039.	1.6	61
15	A Precambrian proximal ejecta blanket from Scotland. <i>Geology</i> , 2008, 36, 303.	2.0	61
16	The role of Raman spectroscopy as an astrobiological tool in the exploration of Mars. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 441-457.	1.2	54
17	Evolution of hydrocarbon migration style in a fractured reservoir deduced from fluid inclusion data, Clair Field, west of Shetland, UK. <i>Marine and Petroleum Geology</i> , 2008, 25, 153-172.	1.5	52
18	Origin and timing of sand injection, petroleum migration, and diagenesis in Tertiary reservoirs, south Viking Graben, North Sea. <i>AAPG Bulletin</i> , 2005, 89, 329-357.	0.7	51

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19	Surface-Enhanced Raman Signatures of Pigmentation of Cyanobacteria from within Geological Samples in a Spectroscopic-Microfluidic Flow Cell. <i>Analytical Chemistry</i> , 2007, 79, 7036-7041.	3.2	50
20	The age of the Mesoproterozoic Stoer Group sedimentary and impact deposits, NW Scotland. <i>Journal of the Geological Society</i> , 2011, 168, 349-358.	0.9	50
21	The replacement of sandstones by uraniferous hydrocarbons: significance for petroleum migration. <i>Mineralogical Magazine</i> , 1987, 51, 505-515.	0.6	47
22	Potential of palaeofluid analysis for understanding oil charge history. <i>Geofluids</i> , 2010, 10, 73-82.	0.3	47
23	Evidence for methane in Martian meteorites. <i>Nature Communications</i> , 2015, 6, 7399.	5.8	47
24	Fluid inclusion constraints on temperatures of petroleum migration from authigenic quartz in bitumen veins. <i>Chemical Geology</i> , 1996, 129, 217-226.	1.4	46
25	Significance of fibrous mineral veins in hydrocarbon migration: fluid inclusion studies. <i>Journal of Geochemical Exploration</i> , 2000, 69-70, 623-627.	1.5	46
26	Testing the survival of microfossils in artificial martian sedimentary meteorites during entry into Earth's atmosphere: The STONE 6 experiment. <i>Icarus</i> , 2010, 207, 616-630.	1.1	44
27	Selenium enrichment in Carboniferous Shales, Britain and Ireland: Problem or opportunity for shale gas extraction?. <i>Applied Geochemistry</i> , 2016, 66, 82-87.	1.4	43
28	Effects of asteroid and comet impacts on habitats for lithophytic organisms-A synthesis. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1901-1914.	0.7	41
29	The structural and diagenetic evolution of injected sandstones: examples from the Kimmeridgian of NE Scotland. <i>Journal of the Geological Society</i> , 2003, 160, 881-894.	0.9	39
30	Sulfur isotope signatures for rapid colonization of an impact crater by thermophilic microbes. <i>Geology</i> , 2010, 38, 271-274.	2.0	39
31	Deformation Band Control on Hydrocarbon Migration. <i>Journal of Sedimentary Research</i> , 2004, 74, 552-560.	0.8	37
32	The ~3.4 billion-year-old Strelley Pool Sandstone: a new window into early life on Earth. <i>International Journal of Astrobiology</i> , 2006, 5, 333-342.	0.9	37
33	Biomarker determination as a provenance tool for detrital carbonate events (Heinrich events?): Fingerprinting Quaternary glacial sources into Baffin Bay. <i>Earth and Planetary Science Letters</i> , 2007, 257, 71-82.	1.8	35
34	Re-evaluating the age of the Houghton impact event. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1777-1787.	0.7	34
35	Exploration of Ellsworth Subglacial Lake: a concept paper on the development, organisation and execution of an experiment to explore, measure and sample the environment of a West Antarctic subglacial lake. <i>Reviews in Environmental Science and Biotechnology</i> , 2007, 6, 161-179.	3.9	34
36	Thermal alteration of organic matter in an impact crater and the duration of postimpact heating. <i>Geology</i> , 2005, 33, 373.	2.0	33

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37	History of hydrocarbon charge on the Atlantic margin: Evidence from fluid-inclusion studies, West of Shetland. <i>Geology</i> , 1998, 26, 807.	2.0	31
38	Integrated petrographic and geochemical record of hydrocarbon seepage on the VÅrving Plateau. <i>Journal of the Geological Society</i> , 2005, 162, 815-827.	0.9	31
39	Palaeo-carbonate seep structures above an oil reservoir, Gryphon Field, Tertiary, North Sea. <i>Geo-Marine Letters</i> , 2003, 23, 323-339.	0.5	30
40	Hydrocarbon source rocks, reservoir rocks and migration in the Orcadian Basin. <i>Scottish Journal of Geology</i> , 1985, 21, 321-335.	0.1	29
41	Plate tectonics and the detection of land-based biosignatures on Mars and extrasolar planets. <i>International Journal of Astrobiology</i> , 2005, 4, 175-186.	0.9	29
42	Raman spectroscopy on Mars: identification of geological and bio-geological signatures in Martian analogues using miniaturized Raman spectrometers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20140204.	1.6	29
43	Survival of Organic Materials in Hypervelocity Impacts of Ice on Sand, Ice, and Water in the Laboratory. <i>Astrobiology</i> , 2014, 14, 473-485.	1.5	29
44	Physical and chemical controls on habitats for life in the deep subsurface beneath continents and ice. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20140293.	1.6	29
45	Reduction spots in the Mesoproterozoic age: implications for life in the early terrestrial record. <i>International Journal of Astrobiology</i> , 2010, 9, 209-216.	0.9	28
46	The preservation of fossil biomarkers during meteorite impact events: Experimental evidence from biomarker-rich projectiles and target rocks. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1340-1358.	0.7	28
47	Selenium and molybdenum enrichment in uranium roll-front deposits of Wyoming and Colorado, USA. <i>Journal of Geochemical Exploration</i> , 2017, 180, 101-112.	1.5	28
48	High selenium in the Carboniferous Coal Measures of Northumberland, North East England. <i>International Journal of Coal Geology</i> , 2018, 195, 61-74.	1.9	28
49	The deep history of Earth's biomass. <i>Journal of the Geological Society</i> , 2018, 175, 716-720.	0.9	28
50	High Molybdenum availability for evolution in a Mesoproterozoic lacustrine environment. <i>Nature Communications</i> , 2015, 6, 6996.	5.8	27
51	Organic geochemistry of impactites from the Houghton impact structure, Devon Island, Nunavut, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1800-1819.	1.6	26
52	Survival of organic compounds in ejecta from hypervelocity impacts on ice. <i>International Journal of Astrobiology</i> , 2009, 8, 19-25.	0.9	26
53	Evidence for Seismogenic Hydrogen Gas, a Potential Microbial Energy Source on Earth and Mars. <i>Astrobiology</i> , 2016, 16, 690-702.	1.5	26
54	Dolomitic breccia veins as evidence for extension and fluid flow in the Dalradian of Argyll. <i>Geological Magazine</i> , 2000, 137, 447-462.	0.9	25

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55	Heavy metal, sex and granites: Crustal differentiation and bioavailability in the mid-Proterozoic. <i>Geology</i> , 2012, 40, 751-754.	2.0	24
56	Subsurface biodegradation of crude oil in a fractured basement reservoir, Shropshire, UK. <i>Journal of the Geological Society</i> , 2017, 174, 655-666.	0.9	24
57	Astrobiological instrumentation for Mars – the only way is down. <i>International Journal of Astrobiology</i> , 2002, 1, 365-380.	0.9	23
58	The thermal alteration by pyrolysis of the organic component of small projectiles of mudrock during capture at hypervelocity. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 82, 312-314.	2.6	23
59	Follow the methane: the search for a deep biosphere, and the case for sampling serpentinites, on Mars. <i>International Journal of Astrobiology</i> , 2010, 9, 193-200.	0.9	23
60	Remobilization and mineralization of selenium and tellurium in metamorphosed red beds: Evidence from the Munster Basin, Ireland. <i>Ore Geology Reviews</i> , 2016, 72, 114-127.	1.1	23
61	Petrography of thoriferous hydrocarbon nodules in sandstones, and their significance for petroleum exploration. <i>Journal of the Geological Society</i> , 1990, 147, 837-842.	0.9	23
62	HYDROCARBON POTENTIAL OF NORTHERN IRELAND: Part 1. Burial histories and source-rock potential. <i>Journal of Petroleum Geology</i> , 1991, 14, 65-78.	0.9	22
63	Phanerozoic analogues for carbonaceous matter in Witwatersrand ore deposits. <i>Economic Geology</i> , 1996, 91, 55-62.	1.8	22
64	Fluid Inclusion Studies of Chemosynthetic Carbonates: Strategy for Seeking Life on Mars. <i>Astrobiology</i> , 2002, 2, 43-57.	1.5	22
65	Mineral Radioactivity in Sands as a Mechanism for Fixation of Organic Carbon on the Early Earth. <i>Origins of Life and Evolution of Biospheres</i> , 2004, 34, 533-547.	0.8	22
66	Aqueous and petroleum fluid flow associated with sand injectites. <i>Basin Research</i> , 2005, 17, 241-257.	1.3	22
67	Regional Fluid Flow and Gold Mineralization in the Dalradian of the Sperrin Mountains, Northern Ireland. <i>Economic Geology</i> , 2000, 95, 1389-1416.	1.8	22
68	The distribution of hydrocarbon minerals in the Welsh borderlands and adjacent areas. <i>Geological Journal</i> , 1983, 18, 129-139.	0.6	21
69	Geochemical evidence for a Cretaceous oil sand (Bima oil sand) in the Chad Basin, Nigeria. <i>Journal of African Earth Sciences</i> , 2015, 111, 148-155.	0.9	21
70	Selenium and tellurium enrichment in palaeo-oil reservoirs. <i>Journal of Geochemical Exploration</i> , 2015, 148, 169-173.	1.5	21
71	Mobilisation of arsenic, selenium and uranium from Carboniferous black shales in west Ireland. <i>Applied Geochemistry</i> , 2019, 109, 104401.	1.4	21
72	Fluids and hydrothermal alteration assemblages in a Devonian gold-bearing hot-spring system, Rhynie, Scotland. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 2003, 94, 309-324.	1.0	20

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73	Characterization of organic matter in the Torridonian using Raman spectroscopy. Geological Society Special Publication, 2017, 448, 71-80.	0.8	20
74	Thorium- <sup>232</sup> bitumen mineralization in Silurian sandstones, Welsh Borderland. Mineralogical Magazine, 1989, 53, 111-116.	0.6	19
75	Geology and geochemistry of bitumen vein deposits at Ghost City, Junggar Basin, northwest China. Geological Magazine, 1994, 131, 181-190.	0.9	19
76	In situ microanalysis of petroleum fluid inclusions by Time of Flight-Secondary Ion Mass Spectrometry as an indicator of evolving oil chemistry: a pilot study in the Bohai Basin, China. Journal of Geochemical Exploration, 2003, 78-79, 377-384.	1.5	19
77	Clean subglacial access: prospects for future deep hot-water drilling. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20140304.	1.6	19
78	Hydrocarbon migration in the Porcupine Basin, offshore Ireland: evidence from fluid inclusion studies. Petroleum Geoscience, 2010, 16, 67-76.	0.9	18
79	Preservation of organic matter in the STONE 6 artificial meteorite experiment. Icarus, 2011, 212, 390-402.	1.1	18
80	Ordovician ash geochemistry and the establishment of land plants. Geochemical Transactions, 2012, 13, 7.	1.8	18
81	Selenium and tellurium resources in Kisgruva Proterozoic volcanogenic massive sulphide deposit (Norway). Ore Geology Reviews, 2018, 99, 411-424.	1.1	18
82	Timing and temperature of decollement on hydrocarbon source rock beds in cyclic lacustrine successions. Palaeogeography, Palaeoclimatology, Palaeoecology, 1998, 140, 121-134.	1.0	17
83	Fluid evolution in base-metal sulphide mineral deposits in the metamorphic basement rocks of southwest Scotland and Northern Ireland. Geological Journal, 2005, 40, 3-21.	0.6	17
84	The habitability of vesicles in martian basalt. Astronomy and Geophysics, 2013, 54, 1.17-1.21.	0.1	17
85	Global hydrogen reservoirs in basement and basins. Geochemical Transactions, 2017, 18, 2.	1.8	17
86	HYDROCARBON POTENTIAL OF NORTHERN IRELAND: Part III. Reservoir potential of the Permo-Triassic. Journal of Petroleum Geology, 1992, 15, 51-70.	0.9	16
87	Title is missing!. Bulletin of the Geological Society of America, 1999, 111, 1884.	1.6	16
88	Plate tectonics, surface mineralogy, and the early evolution of life. International Journal of Astrobiology, 2004, 3, 131-137.	0.9	16
89	Intracrystalline lipids within sulfates from the Haughton Impact Structure- Implications for survival of lipids on Mars. Icarus, 2007, 187, 422-429.	1.1	16
90	Sampling methane in basalt on Earth and Mars. International Journal of Astrobiology, 2013, 12, 113-122.	0.9	16

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91	Origin of heavy oil in Cretaceous petroleum reservoirs. Bulletin of Canadian Petroleum Geology, 2016, 64, 106-118.	0.3	16
92	Sandstone-hosted thorium-bitumen mineralization in the Northwest Irish Basin. Sedimentology, 1990, 37, 1011-1022.	1.6	15
93	Fluid inclusion evidence for a Cretaceous-Palaeogene petroleum system, Kangerlussuaq Basin, East Greenland. Marine and Petroleum Geology, 2005, 22, 319-330.	1.5	15
94	Application of fluorescence lifetime measurements on single petroleum-bearing fluid inclusions to demonstrate multicharge history in petroleum reservoirs. Geofluids, 2009, 9, 330-337.	0.3	15
95	Long term geological record of a global deep subsurface microbial habitat in sand injection complexes. Scientific Reports, 2013, 3, 1828.	1.6	15
96	Redox-controlled selenide mineralization in the Upper Old Red Sandstone. Scottish Journal of Geology, 2014, 50, 173-182.	0.1	15
97	Potential for analysis of carbonaceous matter on Mars using Raman spectroscopy. Planetary and Space Science, 2014, 103, 184-190.	0.9	15
98	Metalliferous Biosignatures for Deep Subsurface Microbial Activity. Origins of Life and Evolution of Biospheres, 2016, 46, 107-118.	0.8	15
99	Selenium and Other Trace Element Mobility in Waste Products and Weathered Sediments at Parys Mountain Copper Mine, Anglesey, UK. Minerals (Basel, Switzerland), 2017, 7, 229.	0.8	15
100	Syngenetic and Paleokarstic Copper Mineralization in the Palaeozoic Platform Sediments of West Central Sinai, Egypt. , 0, , 157-171.		15
101	Interpretation of Pb isotope compositions of galenas from the Midland Valley of Scotland and adjacent regions. Transactions of the Royal Society of Edinburgh: Earth Sciences, 1984, 75, 85-96.	1.0	14
102	Tellurium and selenium in Mesoproterozoic red beds. Precambrian Research, 2018, 305, 145-150.	1.2	14
103	Selenium and tellurium concentrations of Carboniferous British coals. Geological Journal, 2019, 54, 1401-1412.	0.6	14
104	Graphite from Palaeoproterozoic enhanced carbon burial, and its metallogenic legacy. Geological Magazine, 2021, 158, 1711-1718.	0.9	14
105	Identification, Geochemical Characterisation and Significance of Bitumen among the Grave Goods of the 7th Century Mound 1 Ship-Burial at Sutton Hoo (Suffolk, UK). PLoS ONE, 2016, 11, e0166276.	1.1	14
106	Fluid inclusion studies of well samples from the hydrocarbon prospective Porcupine Basin, offshore Ireland. Journal of Geochemical Exploration, 2003, 78-79, 55-59.	1.5	13
107	Hypervelocity Impact Experiments in the Laboratory Relating to Lunar Astrobiology. Earth, Moon and Planets, 2010, 107, 55-64.	0.3	13
108	Permeability data for impact breccias imply focussed hydrothermal fluid flow. Journal of Geochemical Exploration, 2010, 106, 171-175.	1.5	13

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109	Tellurium, selenium and cobalt enrichment in Neoproterozoic black shales, Gwna Group, UK: Deep marine trace element enrichment during the Second Great Oxygenation Event. <i>Terra Nova</i> , 2018, 30, 244-253.	0.9	13
110	Potential for irradiation of methane to form complex organic molecules in impact craters: Implications for Mars, Titan and Europa. <i>Journal of Geochemical Exploration</i> , 2006, 89, 322-325.	1.5	12
111	Survival of reactive carbon through meteorite impact melting. <i>Geology</i> , 2006, 34, 1029.	2.0	12
112	Weathering of Post-Impact Hydrothermal Deposits from the Houghton Impact Structure: Implications for Microbial Colonization and Biosignature Preservation. <i>Astrobiology</i> , 2011, 11, 537-550.	1.5	12
113	Low-temperature concentration of tellurium and gold in continental red bed successions. <i>Terra Nova</i> , 2016, 28, 221-227.	0.9	12
114	Fungal transformation of selenium and tellurium located in a volcanogenic sulfide deposit. <i>Environmental Microbiology</i> , 2020, 22, 2346-2364.	1.8	12
115	Increased biomass and carbon burial 2 billion years ago triggered mountain building. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	2.6	12
116	Kaolin polytype evidence for a hot-fluid pulse along Caledonian thrusts during rifting of the European Margin. <i>Mineralogical Magazine</i> , 2004, 68, 419-432.	0.6	11
117	The origin and tectonic significance of Lewisian- and Torridonian-hosted clastic dykes near Gairloch, NW Scotland. <i>Scottish Journal of Geology</i> , 2004, 40, 123-130.	0.1	11
118	Enhanced organic carbon burial in large Proterozoic lakes: Implications for atmospheric oxygenation. <i>Precambrian Research</i> , 2014, 255, 202-215.	1.2	11
119	Microbial sulphate reduction during Neoproterozoic glaciation, Port Askaig Formation, UK. <i>Journal of the Geological Society</i> , 2017, 174, 850-854.	0.9	11
120	A black shale protolith for gold-tellurium mineralisation in the Dalradian Supergroup (Neoproterozoic) of Britain and Ireland. <i>Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science</i> , 2017, 126, 161-175.	0.8	11
121	Tellurium Enrichment in Jurassic Coal, Brora, Scotland. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 231.	0.8	11
122	Response of sandstone to atmospheric heating during the STONE 5 experiment: Implications for the palaeofluid record in meteorites. <i>Icarus</i> , 2008, 197, 282-290.	1.1	10
123	The transfer of organic signatures from bedrock to sediment. <i>Chemical Geology</i> , 2008, 247, 242-252.	1.4	10
124	Simultaneous and rapid asphaltene and TAN determination for heavy petroleum using an H-cell. <i>Analytical Methods</i> , 2014, 6, 3651-3660.	1.3	10
125	Determination of Se and Te in coal at ultra-trace levels by ICP-MS after microwave-induced combustion. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 998-1004.	1.6	10
126	Geochemistry and metallogeny of Neoproterozoic pyrite in oxic and anoxic sediments. <i>Geochemical Perspectives Letters</i> , 0, , 12-16.	1.0	10



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127	Discrimination of bitumen sources in Precambrian and Lower Palaeozoic rocks, southern U.K., by gas chromatography-mass spectrometry. <i>Chemical Geology</i> , 1991, 90, 1-14.	1.4	9
128	Petrology of the bitumen (manjak) deposits of Barbados: Hydrocarbon migration in an accretionary prism. <i>Marine and Petroleum Geology</i> , 1994, 11, 743-755.	1.5	9
129	Alteration of crystalline basement rocks by hydrocarbon-bearing fluids: Moinian of Ross-shire, Scotland. <i>Lithos</i> , 1996, 37, 281-292.	0.6	9
130	PORE FLUID EVOLUTION WITHIN A HYDROCARBON RESERVOIR: YACORAITE FORMATION (UPPER) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	9
131	Oceanic hypervelocity impact events: a viable mechanism for successful panspermia?. <i>International Journal of Astrobiology</i> , 2006, 5, 261-267.	0.9	9
132	Rapid heating of carbonaceous matter by igneous intrusions in carbon-rich shale, Isle of Skye, Scotland: an analogue for heating of carbon in impact craters?. <i>International Journal of Astrobiology</i> , 2006, 5, 343-351.	0.9	9
133	Oil charge and biodegradation history in an exhumed fractured reservoir, Devonian, UK. <i>Marine and Petroleum Geology</i> , 2019, 101, 281-289.	1.5	9
134	Petrographic relationships between mineral phases and bitumen in the Oklo Proterozoic natural fission reactors, Gabon. <i>Mineralogical Magazine</i> , 1996, 60, 581-593.	0.6	9
135	Paragenesis of mineralization within fractured pebbles in Witwatersrand conglomerates. <i>Mineralium Deposita</i> , 2001, 36, 689-699.	1.7	8
136	Hot fluid flow events in Atlantic margin basins: an example from the Rathlin Basin. <i>Geological Society Special Publication</i> , 2001, 188, 91-105.	0.8	8
137	The preservation of fluid inclusions in diverse surface precipitates: the potential for sampling palaeo-water from surface deposits on Mars. <i>International Journal of Astrobiology</i> , 2004, 3, 21-30.	0.9	8
138	The effects of meteorite impacts on the availability of bioessential elements for endolithic organisms. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1681-1691.	0.7	8
139	A Neoproterozoic petroleum system in the Dalradian Supergroup, Scottish Caledonides. <i>Journal of the Geological Society</i> , 2014, 171, 145-148.	0.9	8
140	Multi-stage pyrite genesis and epigenetic selenium enrichment of Greenburn coals (East Ayrshire). <i>Scottish Journal of Geology</i> , 2018, 54, 37-49.	0.1	8
141	Mixed metamorphic and fluid graphite deposition in Palaeoproterozoic supracrustal rocks of the Lewisian Complex, NW Scotland. <i>Terra Nova</i> , 2021, 33, 541.	0.9	8
142	Probe technology for the direct measurement and sampling of Ellsworth Subglacial Lake. <i>Geophysical Monograph Series</i> , 2011, , 159-186.	0.1	8
143	The occurrence of hydrocarbons in Cambrian sandstones of the Welsh Borderland. <i>Geological Journal</i> , 1987, 22, 173-190.	0.6	7
144	Preservation of Biological Markers in Clasts Within Impact Melt Breccias from the Houghton Impact Structure, Devon Island. <i>Astrobiology</i> , 2009, 9, 391-400.	1.5	7

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145	Sampling methane in hydrothermal minerals on Earth and Mars. <i>International Journal of Astrobiology</i> , 2012, 11, 163-167.	0.9	7
146	Early diagenesis at and below Vera Rubin ridge, Gale crater, Mars. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1905-1932.	0.7	7
147	Processes of Formation of Iron&Manganese Oxyhydroxides in the Atlantis-II and Thetis Deeps of the Red Sea. , 0, , 57-72.		7
148	Genesis of the graphite deposit at Seathwaite in Borrowdale, Cumbria. <i>Geological Magazine</i> , 1982, 119, 511-512.	0.9	6
149	Skeletal halites from the Jurassic of Massachusetts, and their significance. <i>Sedimentology</i> , 1983, 30, 711-715.	1.6	6
150	Petrography and origin of deposits at the Bentheim bitumen mine, north western Germany. <i>Mineralium Deposita</i> , 1996, 31, 104.	1.7	6
151	Application Of Organic Geochemistry To Detect Signatures Of Organic Matter In The Houghton Impact Structure. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1879-1885.	0.7	6
152	The extraction of intracrystalline biomarkers and other organic compounds from sulphate minerals using a microfluidic format &a a feasibility study for remote fossil-life detection using a microfluidic H-cell. <i>International Journal of Astrobiology</i> , 2007, 6, 27-36.	0.9	6
153	Evidence for life in the isotopic analysis of surface sulphates in the Houghton impact structure, and potential application on Mars. <i>International Journal of Astrobiology</i> , 2012, 11, 93-101.	0.9	6
154	Preservation of Mesoproterozoic age deep burial fluid signatures, NW Scotland. <i>Marine and Petroleum Geology</i> , 2014, 55, 275-281.	1.5	6
155	Raman spectroscopy of shocked gypsum from a meteorite impact crater. <i>International Journal of Astrobiology</i> , 2017, 16, 286-292.	0.9	6
156	Surface mineral crusts: a potential strategy for sampling for evidence of life on Mars. <i>International Journal of Astrobiology</i> , 2019, 18, 91-101.	0.9	6
157	A thermal maturity map based on vitrinite reflectance of British coals. <i>Journal of the Geological Society</i> , 2019, 176, 1136-1142.	0.9	6
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