John Parnell

List of Publications by Year
in descending order

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	Snowball Earth to Global Warming: Coupled vanadium-carbonaceous deposits in the Cryogenian-Cambrian. Ore Geology Reviews, 2022, 145, 104876.	1.1	5
2	Carbon in Mineralised Plutons. Geosciences (Switzerland), 2022, 12, 202.	1.0	1
3	The Effect of Grain Size on Porewater Radiolysis. Earth and Space Science, 2022, 9, .	1.1	1
4	Seawater signatures in the supracrustal Lewisian Complex, Scotland. Geological Magazine, 2022, 159, 1638-1646.	0.9	3
5	Vanadium for Green Energy: Increasing Demand but With Health Implications in Volcanic Terrains. GeoHealth, 2022, 6, .	1.9	3
6	Niobium mineralization of sedimentary carbonates, Lewisian Complex, UK. Applied Earth Science: Transactions of the Institute of Mining and Metallurgy, 2021, 130, 133-142.	0.6	4
7	Metal Flux from Dissolution of Iron Oxide Grain Coatings in Sandstones. Geofluids, 2021, 2021, 1-14.	0.3	5
8	Graphite from Palaeoproterozoic enhanced carbon burial, and its metallogenic legacy. Geological Magazine, 2021, 158, 1711-1718.	0.9	14
9	Mixed metamorphic and fluid graphite deposition in Palaeoproterozoic supracrustal rocks of the Lewisian Complex, NW Scotland. Terra Nova, 2021, 33, 541.	0.9	8
10	The sequestration of trace metals preserved in pyritized burrows. Sedimentary Geology, 2021, 421, 105959.	1.0	1
11	Early diagenesis at and below Vera Rubin ridge, Gale crater, Mars. Meteoritics and Planetary Science, 2021, 56, 1905-1932.	0.7	7
12	Reply to discussion on â€˜A thermal maturity map based on vitrinite reflectance of British coalsâ€™, Journal of the Geological Society, London, 176, 1136â€“1142, https://doi.org/10.1144/jgs2019-055. Journal of the Geological Society, 2021, 178, jgs2020-211.	0.9	1
13	Increased biomass and carbon burial 2 billion years ago triggered mountain building. Communications Earth & Environment, 2021, 2, .	2.6	12
14	Raman analysis of a shocked planetary surface analogue: Implications for habitability on Mars. Journal of Raman Spectroscopy, 2021, 52, 2166.	1.2	2
15	Mars-Analog Calcium Sulfate Veins Record Evidence of Ancient Subsurface Life. Astrobiology, 2020, 20, 1212-1223.	1.5	3
16	Carbon in mineralized ultramafic intrusions, caledonides, northern Britain. Lithos, 2020, 374-375, 105711.	0.6	1
17	Gold in Irish Coal: Palaeo-Concentration from Metalliferous Groundwaters. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.8	4
18	Fungal transformation of selenium and tellurium located in a volcanogenic sulfide deposit. Environmental Microbiology, 2020, 22, 2346-2364.	1.8	12

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19	Selenium and tellurium concentrations of Carboniferous British coals. Geological Journal, 2019, 54, 1401-1412.	0.6	14
20	Mobilisation of arsenic, selenium and uranium from Carboniferous black shales in west Ireland. Applied Geochemistry, 2019, 109, 104401.	1.4	21
21	Coal miningâ€derived ochres in the UK: a potential selenium trap. Geology Today, 2019, 35, 140-145.	0.3	5
22	Detecting ancient life: Investigating the nature and origin of possible stromatolites and associated calcite from a one billion year old lake. Precambrian Research, 2019, 328, 309-320.	1.2	5
23	Methane in sulphides from gold-bearing deposits, Britain and Ireland. Applied Earth Science: Transactions of the Institute of Mining and Metallurgy, 2019, 128, 89-95.	0.6	1
24	Naturally propped fractures caused by quartz cementation preserve oil reservoirs in basement rocks. Terra Nova, 2019, 31, 343-347.	0.9	0
25	Neoproterozoic copper cycling, and the rise of metazoans. Scientific Reports, 2019, 9, 3638.	1.6	3
26	Determination of Se and Te in coal at ultra-trace levels by ICP-MS after microwave-induced combustion. Journal of Analytical Atomic Spectrometry, 2019, 34, 998-1004.	1.6	10
27	The geochemistry of oil in Cornish granites. Petroleum Geoscience, 2019, 25, 298-305.	0.9	3
28	Oil charge and biodegradation history in an exhumed fractured reservoir, Devonian, UK. Marine and Petroleum Geology, 2019, 101, 281-289.	1.5	9
29	Comparative pore surface area in primary and secondary porosity in sandstones. Journal of Petroleum Science and Engineering, 2019, 172, 489-492.	2.1	1
30	Emplacement of oil in the Devonian Weardale Granite of northern England. Proceedings of the Yorkshire Geological Society, 2019, 62, 229-237.	0.2	3
31	Surface mineral crusts: a potential strategy for sampling for evidence of life on Mars. International Journal of Astrobiology, 2019, 18, 91-101.	0.9	6
32	A thermal maturity map based on vitrinite reflectance of British coals. Journal of the Geological Society, 2019, 176, 1136-1142.	0.9	6
33	Tellurium, selenium and cobalt enrichment in Neoproterozoic black shales, Gwna Group, UK: Deep marine trace element enrichment during the Second Great Oxygenation Event. Terra Nova, 2018, 30, 244-253.	0.9	13
34	Tellurium and selenium in Mesoproterozoic red beds. Precambrian Research, 2018, 305, 145-150.	1.2	14
35	Petroleum generation and migration in the Cambro-Ordovician Laurentian margin succession of NW Scotland. Journal of the Geological Society, 2018, 175, 33-43.	0.9	2
36	Demonstrating deep biosphere activity in the geological record of lake sediments, on Earth and Mars. International Journal of Astrobiology, 2018, 17, 380-385.	0.9	2

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37	Multi-stage pyrite genesis and epigenetic selenium enrichment of Greenburn coals (East Ayrshire). Scottish Journal of Geology, 2018, 54, 37-49.	0.1	8
38	Selenium and tellurium resources in Kisgruva Proterozoic volcanogenic massive sulphide deposit (Norway). Ore Geology Reviews, 2018, 99, 411-424.	1.1	18
39	High selenium in the Carboniferous Coal Measures of Northumberland, North East England. International Journal of Coal Geology, 2018, 195, 61-74.	1.9	28
40	The deep history of Earth's biomass. Journal of the Geological Society, 2018, 175, 716-720.	0.9	28
41	Liberation of selenium from alteration of the Bowland Shale Formation: evidence from the Mam Tor landslide. Quarterly Journal of Engineering Geology and Hydrogeology, 2018, 51, 503-508.	0.8	5
42	Raman spectroscopy of shocked gypsum from a meteorite impact crater. International Journal of Astrobiology, 2017, 16, 286-292.	0.9	6
43	Microbial sulphate reduction during Neoproterozoic glaciation, Port Askaig Formation, UK. Journal of the Geological Society, 2017, 174, 850-854.	0.9	11
44	Selenium and molybdenum enrichment in uranium roll-front deposits of Wyoming and Colorado, USA. Journal of Geochemical Exploration, 2017, 180, 101-112.	1.5	28
45	Global hydrogen reservoirs in basement and basins. Geochemical Transactions, 2017, 18, 2.	1.8	17
46	Geochemistry and origin of organic-rich sediment veins in fractured granitic basement, Helmsdale, Sutherlandshire, UK. Marine and Petroleum Geology, 2017, 88, 107-114.	1.5	2
47	Impact of oil emplacement on diagenesis in Cretaceous oil sands. Bullentin of Canadian Petroleum Geology, 2017, 65, 327-342.	0.3	2
48	Characterization of organic matter in the Torridonian using Raman spectroscopy. Geological Society Special Publication, 2017, 448, 71-80.	0.8	20
49	A black shale protolith for gold-tellurium mineralisation in the Dalradian Supergroup (Neoproterozoic) of Britain and Ireland. Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science, 2017, 126, 161-175.	0.8	11
50	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
51	Tellurium Enrichment in Jurassic Coal, Brora, Scotland. Minerals (Basel, Switzerland), 2017, 7, 231.	0.8	11
52	Subsurface biodegradation of crude oil in a fractured basement reservoir, Shropshire, UK. Journal of the Geological Society, 2017, 174, 655-666.	0.9	24
53	Contrasting microfossil preservation and lake chemistries within the 1200â€“1000 Ma Torridonian Supergroup of NW Scotland. Geological Society Special Publication, 2017, 448, 105-119.	0.8	4
54	Physical and chemical controls on habitats for life in the deep subsurface beneath continents and ice. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20140293.	1.6	29

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55	Gold in Devono-Carboniferous red beds of northern Britain. Journal of the Geological Society, 2016, 173, 245-248.	0.9	3
56	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
57	Lowâ€temperature concentration of tellurium and gold in continental red bed successions. Terra Nova, 2016, 28, 221-227.	0.9	12
58	Evidence for Seismogenic Hydrogen Gas, a Potential Microbial Energy Source on Earth and Mars. Astrobiology, 2016, 16, 690-702.	1.5	26
59	Origin of heavy oil in Cretaceous petroleum reservoirs. Bullentin of Canadian Petroleum Geology, 2016, 64, 106-118.	0.3	16
60	Emplacement and biodegradation of oil in fractured basement: the â€˜coalâ€™ deposit in Moinian gneiss at Castle Leod, Ross-shire. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2016, 107, 23-32.	0.3	5
61	Metalliferous Biosignatures for Deep Subsurface Microbial Activity. Origins of Life and Evolution of Biospheres, 2016, 46, 107-118.	0.8	15
62	Anomalous supply of bioessential molybdenum in mid-Proterozoic surface environments. Precambrian Research, 2016, 275, 100-104.	1.2	3
63	Selenium enrichment in Carboniferous Shales, Britain and Ireland: Problem or opportunity for shale gas extraction?. Applied Geochemistry, 2016, 66, 82-87.	1.4	43
64	Remobilization and mineralization of seleniumâ€“tellurium in metamorphosed red beds: Evidence from the Munster Basin, Ireland. Ore Geology Reviews, 2016, 72, 114-127.	1.1	23
65	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
66	A micrometeorite record in Ordovician Durness Group limestones, Isle of Skye. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2015, 106, 81-87.	0.3	0
67	Evidence for microbial activity in British and Irish Ordovician pillow lavas. Geological Journal, 2015, 50, 497-508.	0.6	5
68	Evidence for methane in Martian meteorites. Nature Communications, 2015, 6, 7399.	5.8	47
69	High Molybdenum availability for evolution in a Mesoproterozoic lacustrine environment. Nature Communications, 2015, 6, 6996.	5.8	27
70	Enhanced microbial activity in carbon-rich pillow lavas, Ordovician, Great Britain and Ireland. Geology, 2015, 43, 827-830.	2.0	1
71	Geochemical evidence for a Cretaceous oil sand (Bima oil sand) in the Chad Basin, Nigeria. Journal of African Earth Sciences, 2015, 111, 148-155.	0.9	21
72	Selenium and tellurium enrichment in palaeo-oil reservoirs. Journal of Geochemical Exploration, 2015, 148, 169-173.	1.5	21

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73	Raman spectroscopy on Mars: identification of geological and bio-geological signatures in Martian analogues using miniaturized Raman spectrometers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140204.	1.6	29
74	Cadmium sulfide in a Mesoproterozoic terrestrial environment. Mineralogical Magazine, 2014, 78, 47-54.	0.6	5
75	Weighing the deep continental biosphere. FEMS Microbiology Ecology, 2014, 87, 113-120.	1.3	211
76	Survival of Organic Materials in Hypervelocity Impacts of Ice on Sand, Ice, and Water in the Laboratory. Astrobiology, 2014, 14, 473-485.	1.5	29
77	Carbon dioxide drawdown by Devonian lavas. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2014, 105, 1-8.	0.3	0
78	Limits on methane release and generation via hypervelocity impact of Martian analogue materials. International Journal of Astrobiology, 2014, 13, 132-140.	0.9	2
79	Redox-controlled selenide mineralization in the Upper Old Red Sandstone. Scottish Journal of Geology, 2014, 50, 173-182.	0.1	15
80	A Neoproterozoic petroleum system in the Dalradian Supergroup, Scottish Caledonides. Journal of the Geological Society, 2014, 171, 145-148.	0.9	8
81	Constraining causes of fish mass mortality using ultra-high-resolution biomarker measurement. Chemical Geology, 2014, 385, 156-162.	1.4	5
82	Potential for analysis of carbonaceous matter on Mars using Raman spectroscopy. Planetary and Space Science, 2014, 103, 184-190.	0.9	15
83	Simultaneous and rapid asphaltene and TAN determination for heavy petroleum using an H-cell. Analytical Methods, 2014, 6, 3651-3660.	1.3	10
84	Enhanced organic carbon burial in large Proterozoic lakes: Implications for atmospheric oxygenation. Precambrian Research, 2014, 255, 202-215.	1.2	11
85	Preservation of Mesoproterozoic age deep burial fluid signatures, NW Scotland. Marine and Petroleum Geology, 2014, 55, 275-281.	1.5	6
86	Impact-generated hydrothermal systems on Earth and Mars. Icarus, 2013, 224, 347-363.	1.1	219
87	Long term geological record of a global deep subsurface microbial habitat in sand injection complexes. Scientific Reports, 2013, 3, 1828.	1.6	15
88	Sampling methane in basalt on Earth and Mars. International Journal of Astrobiology, 2013, 12, 113-122.	0.9	16
89	The habitability of vesicles in martian basalt. Astronomy and Geophysics, 2013, 54, 1.17-1.21.	0.1	17
90	Sampling methane in hydrothermal minerals on Earth and Mars. International Journal of Astrobiology, 2012, 11, 163-167.	0.9	7

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91	Evidence for life in the isotopic analysis of surface sulphates in the Haughton impact structure, and potential application on Mars. International Journal of Astrobiology, 2012, 11, 93-101.	0.9	6
92	Ordovician ash geochemistry and the establishment of land plants. Geochemical Transactions, 2012, 13, 7.	1.8	18
93	The effects of meteorite impacts on the availability of bioessential elements for endolithic organisms. Meteoritics and Planetary Science, 2012, 47, 1681-1691.	0.7	8
94	Heavy metal, sex and granites: Crustal differentiation and bioavailability in the mid-Proterozoic. Geology, 2012, 40, 751-754.	2.0	24
95	Clean access, measurement, and sampling of Ellsworth Subglacial Lake: A method for exploring deep Antarctic subglacial lake environments. Reviews of Geophysics, 2012, 50, .	9.0	63
96	Weathering of Post-Impact Hydrothermal Deposits from the Haughton Impact Structure: Implications for Microbial Colonization and Biosignature Preservation. Astrobiology, 2011, 11, 537-550.	1.5	12
97	Preservation of organic matter in the STONE 6 artificial meteorite experiment. Icarus, 2011, 212, 390-402.	1.1	18
98	The age of the Mesoproterozoic Stoer Group sedimentary and impact deposits, NW Scotland. Journal of the Geological Society, 2011, 168, 349-358.	0.9	50
99	Probe technology for the direct measurement and sampling of Ellsworth Subglacial Lake. Geophysical Monograph Series, 2011, , 159-186.	0.1	8
100	Hypervelocity Impact Experiments in the Laboratory Relating to Lunar Astrobiology. Earth, Moon and Planets, 2010, 107, 55-64.	0.3	13
101	Testing the survival of microfossils in artificial martian sedimentary meteorites during entry into Earthâ€™s atmosphere: The STONE 6 experiment. Icarus, 2010, 207, 616-630.	1.1	44
102	Potential of palaeofluid analysis for understanding oil charge history. Geofluids, 2010, 10, 73-82.	0.3	47
103	Early oxygenation of the terrestrial environment during the Mesoproterozoic. Nature, 2010, 468, 290-293.	13.7	97
104	Reduction spots in the Mesoproterozoic age: implications for life in the early terrestrial record. International Journal of Astrobiology, 2010, 9, 209-216.	0.9	28
105	Follow the methane: the search for a deep biosphere, and the case for sampling serpentinites, on Mars. International Journal of Astrobiology, 2010, 9, 193-200.	0.9	23
106	Sulfur isotope signatures for rapid colonization of an impact crater by thermophilic microbes. Geology, 2010, 38, 271-274.	2.0	39
107	Hydrocarbon migration in the Porcupine Basin, offshore Ireland: evidence from fluid inclusion studies. Petroleum Geoscience, 2010, 16, 67-76.	0.9	18
108	Signal Enhancement of Surface Enhanced Raman Scattering and Surface Enhanced Resonance Raman Scattering Using in Situ Colloidal Synthesis in Microfluidics. Analytical Chemistry, 2010, 82, 2119-2123.	3.2	70

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109	Permeability data for impact breccias imply focussed hydrothermal fluid flow. Journal of Geochemical Exploration, 2010, 106, 171-175.	1.5	13
110	The preservation of fossil biomarkers during meteorite impact events: Experimental evidence from biomarkerâ€rich projectiles and target rocks. Meteoritics and Planetary Science, 2010, 45, 1340-1358.	0.7	28
111	Preservation of Biological Markers in Clasts Within Impact Melt Breccias from the Haughton Impact Structure, Devon Island. Astrobiology, 2009, 9, 391-400.	1.5	7
112	Survival of organic compounds in ejecta from hypervelocity impacts on ice. International Journal of Astrobiology, 2009, 8, 19-25.	0.9	26
113	Application of fluorescence lifetime measurements on single petroleumâ€bearing fluid inclusions to demonstrate multicharge history in petroleum reservoirs. Geofluids, 2009, 9, 330-337.	0.3	15
114	The thermal alteration by pyrolysis of the organic component of small projectiles of mudrock during capture at hypervelocity. Journal of Analytical and Applied Pyrolysis, 2008, 82, 312-314.	2.6	23
115	Response of sandstone to atmospheric heating during the STONE 5 experiment: Implications for the palaeofluid record in meteorites. Icarus, 2008, 197, 282-290.	1.1	10
116	Evolution of hydrocarbon migration style in a fractured reservoir deduced from fluid inclusion data, Clair Field, west of Shetland, UK. Marine and Petroleum Geology, 2008, 25, 153-172.	1.5	52
117	The transfer of organic signatures from bedrock to sediment. Chemical Geology, 2008, 247, 242-252.	1.4	10
118	A Precambrian proximal ejecta blanket from Scotland. Geology, 2008, 36, 303.	2.0	61
119	The extraction of intracrystalline biomarkers and other organic compounds from sulphate minerals using a microfluidic format â€“ a feasibility study for remote fossil-life detection using a microfluidic H-cell. International Journal of Astrobiology, 2007, 6, 27-36.	0.9	6
120	Biomarker determination as a provenance tool for detrital carbonate events (Heinrich events?): Fingerprinting Quaternary glacial sources into Baffin Bay. Earth and Planetary Science Letters, 2007, 257, 71-82.	1.8	35
121	Organic geochemistry of impactites from the Haughton impact structure, Devon Island, Nunavut, Canada. Geochimica Et Cosmochimica Acta, 2007, 71, 1800-1819.	1.6	26
122	Formation of uraniumâ€thoriumâ€rich bitumen nodules in the Lockne impact structure, Sweden: A mechanism for carbon concentration at impact sites. Meteoritics and Planetary Science, 2007, 42, 1961-1969.	0.7	3
123	Searching for Life on Mars: Selection of Molecular Targets for ESA's Aurora ExoMars Mission. Astrobiology, 2007, 7, 578-604.	1.5	172
124	Surface-Enhanced Raman Signatures of Pigmentation of Cyanobacteria from within Geological Samples in a Spectroscopic-Microfluidic Flow Cell. Analytical Chemistry, 2007, 79, 7036-7041.	3.2	50
125	Intracrystalline lipids within sulfates from the Haughton Impact Structureâ€”Implications for survival of lipids on Mars. Icarus, 2007, 187, 422-429.	1.1	16
126	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. Reviews in Environmental Science and Biotechnology, 2007, 6, 161-179.	3.9	34

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127	The alteration of organic matter in response to ionising irradiation: Chemical trends and implications for extraterrestrial sample analysis. Geochimica Et Cosmochimica Acta, 2006, 70, 1020-1039.	1.6	61
128	Potential for irradiation of methane to form complex organic molecules in impact craters: Implications for Mars, Titan and Europa. Journal of Geochemical Exploration, 2006, 89, 322-325.	1.5	12
129	Survival of reactive carbon through meteorite impact melting. Geology, 2006, 34, 1029.	2.0	12
130	A low-cost approach to the exploration of Mars through a robotic technology demonstrator mission. Acta Astronautica, 2006, 59, 742-749.	1.7	3
131	The ~3.4 billion-year-old Strelley Pool Sandstone: a new window into early life on Earth. International Journal of Astrobiology, 2006, 5, 333-342.	0.9	37
132	Oceanic hypervelocity impact events: a viable mechanism for successful panspermia?. International Journal of Astrobiology, 2006, 5, 261-267.	0.9	9
133	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?. International Journal of Astrobiology, 2006, 5, 343-351.	0.9	9
134	The detection of organic matter in terrestrial snow and ice: implications for astrobiology. International Journal of Astrobiology, 2006, 5, 353-359.	0.9	4
135	The Potential for Survival of Organic Matter in Fluid Inclusions at Impact Sites. , 2006, , 1-20.		0
136	Aqueous and petroleum fluid flow associated with sand injectites. Basin Research, 2005, 17, 241-257.	1.3	22
137	Extraction of organic signatures from carbonates and evaporites: from mineral deposits to Mars. Proceedings of the Geologists Association, 2005, 116, 281-291.	0.6	2
138	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
139	Origin and timing of sand injection, petroleum migration, and diagenesis in Tertiary reservoirs, south Viking Graben, North Sea. AAPG Bulletin, 2005, 89, 329-357.	0.7	51
140	Thermal alteration of organic matter in an impact crater and the duration of postimpact heating. Geology, 2005, 33, 373.	2.0	33
141	Plate tectonics and the detection of land-based biosignatures on Mars and extrasolar planets. International Journal of Astrobiology, 2005, 4, 175-186.	0.9	29
142	Geological overview and cratering model for the Haughton impact structure, Devon Island, Canadian High Arctic. Meteoritics and Planetary Science, 2005, 40, 1759-1776.	0.7	74
143	Re-evaluating the age of the Haughton impact event. Meteoritics and Planetary Science, 2005, 40, 1777-1787.	0.7	34
144	A case study of impact-induced hydrothermal activity: The Haughton impact structure, Devon Island, Canadian High Arctic. Meteoritics and Planetary Science, 2005, 40, 1859-1877.	0.7	82

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145	Application Of Organic Geochemistry To Detect Signatures Of Organic Matter In The Haughton Impact Structure. Meteoritics and Planetary Science, 2005, 40, 1879-1885.	0.7	6
146	Effects of asteroid and comet impacts on habitats for lithophytic organisms-A synthesis. Meteoritics and Planetary Science, 2005, 40, 1901-1914.	0.7	41
147	Raman spectroscopic analysis of cyanobacterial gypsum halotrophs and relevance for sulfate deposits on Mars. Analyst, The, 2005, 130, 917.	1.7	84
148	Integrated petrographic and geochemical record of hydrocarbon seepage on the VÃ¸ring Plateau. Journal of the Geological Society, 2005, 162, 815-827.	0.9	31
149	Fluid inclusion evidence for a Cretaceousâ€“Palaeogene petroleum system, Kangerlussuaq Basin, East Greenland. Marine and Petroleum Geology, 2005, 22, 319-330.	1.5	15
150	Record of fluid flow history through fractured conglomerates, Lower Old Red Sandstone of central Scotland. Scottish Journal of Geology, 2004, 40, 145-157.	0.1	1
151	Kaolin polytype evidence for a hot-fluid pulse along Caledonian thrusts during rifting of the European Margin. Mineralogical Magazine, 2004, 68, 419-432.	0.6	11
152	Microbial colonization in impact-generated hydrothermal sulphate deposits, Haughton impact structure, and implications for sulphates on Mars. International Journal of Astrobiology, 2004, 3, 247-256.	0.9	71
153	The preservation of fluid inclusions in diverse surface precipitates: the potential for sampling palaeo-water from surface deposits on Mars. International Journal of Astrobiology, 2004, 3, 21-30.	0.9	8
154	Deformation Band Control on Hydrocarbon Migration. Journal of Sedimentary Research, 2004, 74, 552-560.	0.8	37
155	Plate tectonics, surface mineralogy, and the early evolution of life. International Journal of Astrobiology, 2004, 3, 131-137.	0.9	16
156	Mineral Radioactivity in Sands as a Mechanism for Fixation of Organic Carbon on the Early Earth. Origins of Life and Evolution of Biospheres, 2004, 34, 533-547.	0.8	22
157	The role of Raman spectroscopy as an astrobiological tool in the exploration of Mars. Journal of Raman Spectroscopy, 2004, 35, 441-457.	1.2	54
158	The origin and tectonic significance of Lewisian- and Torridonian-hosted clastic dykes near Gairloch, NW Scotland. Scottish Journal of Geology, 2004, 40, 123-130.	0.1	11
159	Palaeo-carbonate seep structures above an oil reservoir, Gryphon Field, Tertiary, North Sea. Geo-Marine Letters, 2003, 23, 323-339.	0.5	30
160	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
161	Preservation of pre-orogenic palaeofluids within the Caledonides of northwest Scotland. Journal of Geochemical Exploration, 2003, 78-79, 27-31.	1.5	5
162	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

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163	Fluids and hydrothermal alteration assemblages in a Devonian gold-bearing hot-spring system, Rhynie, Scotland. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2003, 94, 309-324.	1.0	20
164	Application of fluid inclusion studies to understanding oil charge, Pre-Salt succession, offshore Angola. Geological Society Special Publication, 2003, 207, 275-283.	0.8	2
165	Remobilization of sand from consolidated sandstones: evidence from mixed bitumen-sand intrusions. Geological Society Special Publication, 2003, 216, 505-513.	0.8	3
166	The structural and diagenetic evolution of injected sandstones: examples from the Kimmeridgian of NE Scotland. Journal of the Geological Society, 2003, 160, 881-894.	0.9	39
167	Astrobiological instrumentation for Mars â€“ the only way is down. International Journal of Astrobiology, 2002, 1, 365-380.	0.9	23
168	Fluid Inclusion Studies of Chemosynthetic Carbonates: Strategy for Seeking Life on Mars. Astrobiology, 2002, 2, 43-57.	1.5	22
169	The use of integrated fluid inclusion studies in constraining oil charge history and reservoir compartmentation: examples from the Jeanne d'Arc Basin, offshore Newfoundland. Marine and Petroleum Geology, 2001, 18, 535-549.	1.5	103
170	Paragenesis of mineralization within fractured pebbles in Witwatersrand conglomerates. Mineralium Deposita, 2001, 36, 689-699.	1.7	8
171	Hot fluid flow events in Atlantic margin basins: an example from the Rathlin Basin. Geological Society Special Publication, 2001, 188, 91-105.	0.8	8
172	Dolomitic breccia veins as evidence for extension and fluid flow in the Dalradian of Argyll. Geological Magazine, 2000, 137, 447-462.	0.9	25
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