

David A C Manning

List of Publications by Year in descending order

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134
papers

12,587
citations

66234

42
h-index

24179

110
g-index

136
all docs

136
docs citations

136
times ranked

13462
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistence of soil organic matter as an ecosystem property. <i>Nature</i> , 2011, 478, 49-56.	13.7	4,243
2	Comparison of geochemical indices used for the interpretation of palaeoredox conditions in ancient mudstones. <i>Chemical Geology</i> , 1994, 111, 111-129.	1.4	1,583
3	Biogeochemical processes and geotechnical applications: progress, opportunities and challenges. <i>Geotechnique</i> , 2013, 63, 287-301.	2.2	591
4	The effect of fluorine on liquidus phase relationships in the system Qz-Ab-Or with excess water at 1 kb. <i>Contributions To Mineralogy and Petrology</i> , 1981, 76, 206-215.	1.2	510
5	Comparison of quantification methods to measure fire-derived (black/elemental) carbon in soils and sediments using reference materials from soil, water, sediment and the atmosphere. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	1.9	483
6	Mineral sources of potassium for plant nutrition. A review. <i>Agronomy for Sustainable Development</i> , 2010, 30, 281-294.	2.2	222
7	Heterotrophic microbial communities use ancient carbon following glacial retreat. <i>Biology Letters</i> , 2007, 3, 487-490.	1.0	201
8	Chemical variation and significance of tourmaline from Southwest England. <i>Economic Geology</i> , 1995, 90, 495-519.	1.8	176
9	Thermochemical sulphate reduction (TSR): experimental determination of reaction kinetics and implications of the observed reaction rates for petroleum reservoirs. <i>Organic Geochemistry</i> , 2004, 35, 393-404.	0.9	164
10	Silicate Production and Availability for Mineral Carbonation. <i>Environmental Science & Technology</i> , 2011, 45, 2035-2041.	4.6	148
11	Petrogenesis of tourmaline granites and topaz granites; the contribution of experimental data. <i>Physics of the Earth and Planetary Interiors</i> , 1984, 35, 31-50.	0.7	140
12	Carbonate precipitation in artificial soils as a sink for atmospheric carbon dioxide. <i>Applied Geochemistry</i> , 2009, 24, 1757-1764.	1.4	134
13	Historical and technical developments of potassium resources. <i>Science of the Total Environment</i> , 2015, 502, 590-601.	3.9	118
14	The behaviour of tungsten in granitic melt-vapour systems. <i>Contributions To Mineralogy and Petrology</i> , 1984, 86, 286-293.	1.2	115
15	Structural and chemical changes of thermally treated bone apatite. <i>Journal of Materials Science</i> , 2007, 42, 9807-9816.	1.7	110
16	Use of pyrolysis/GC-MS combined with thermal analysis to monitor C and N changes in soil organic matter from a Mediterranean fire affected forest. <i>Catena</i> , 2008, 74, 296-303.	2.2	102
17	Evolution of the Cornubian ore field, Southwest England; Part II, Mineral deposits and ore-forming processes. <i>Economic Geology</i> , 1989, 84, 1101-1133.	1.8	101
18	Investigating carbonate formation in urban soils as a method for capture and storage of atmospheric carbon. <i>Science of the Total Environment</i> , 2012, 431, 166-175.	3.9	101

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19	The probable occurrence of interstitial Al in hydrous, F-bearing and F-free aluminosilicate melts. Contributions To Mineralogy and Petrology, 1981, 75, 257-262.	1.2	98
20	Direct Detection of Black Carbon in Soils by PyroGC/MS, Carbon-13 NMR Spectroscopy and Thermogravimetric Techniques. Soil Science Society of America Journal, 2008, 72, 258-267.	1.2	94
21	The composition of nanoparticulate mackinawite, tetragonal iron(II) monosulfide. Chemical Geology, 2006, 235, 286-298.	1.4	89
22	Contaminant mobility and carbon sequestration downstream of the Ajka (Hungary) red mud spill: The effects of gypsum dosing. Science of the Total Environment, 2012, 421-422, 253-259.	3.9	88
23	Biological enhancement of soil carbonate precipitation: passive removal of atmospheric CO ₂ . Mineralogical Magazine, 2008, 72, 639-649.	0.6	78
24	USE OF THERMOGRAVIMETRY-DIFFERENTIAL SCANNING CALORIMETRY TO CHARACTERIZE MODELABLE SOIL ORGANIC MATTER FRACTIONS. Soil Science Society of America Journal, 2005, 69, 136-140.	1.2	76
25	Rapid Removal of Atmospheric CO ₂ by Urban Soils. Environmental Science & Technology, 2015, 49, 5434-5440.	4.6	76
26	Recycling construction and demolition wastes - a UK perspective. Management of Environmental Quality, 2001, 12, 146-157.	0.4	75
27	Carbonate precipitation in artificial soils produced from basaltic quarry fines and composts: An opportunity for passive carbon sequestration. International Journal of Greenhouse Gas Control, 2013, 17, 309-317.	2.3	74
28	Passive Sequestration of Atmospheric CO ₂ through Coupled Plant-Mineral Reactions in Urban soils. Environmental Science & Technology, 2013, 47, 135-141.	4.6	74
29	Manganese removal from mine waters - investigating the occurrence and importance of manganese carbonates. Applied Geochemistry, 2006, 21, 1274-1287.	1.4	70
30	An evaluation of the reactivity of synthetic and natural apatites in the presence of aqueous metals. Science of the Total Environment, 2009, 407, 2953-2965.	3.9	66
31	How will minerals feed the world in 2050?. Proceedings of the Geologists Association, 2015, 126, 14-17.	0.6	65
32	Influence of time and temperature on reactions and transformations of muscovite mica. Advances in Applied Ceramics, 1999, 98, 122-126.	0.4	63
33	A deep geothermal exploration well at Eastgate, Weardale, UK: a novel exploration concept for low-enthalpy resources. Journal of the Geological Society, 2007, 164, 371-382.	0.9	63
34	Assessing the potential of soil carbonation and enhanced weathering through Life Cycle Assessment: A case study for Sao Paulo State, Brazil. Journal of Cleaner Production, 2019, 233, 468-481.	4.6	62
35	Coupling of thermal analysis with quadrupole mass spectrometry and isotope ratio mass spectrometry for simultaneous determination of evolved gases and their carbon isotopic composition. Journal of Analytical and Applied Pyrolysis, 2006, 75, 82-89.	2.6	58
36	Phosphate Minerals, Environmental Pollution and Sustainable Agriculture. Elements, 2008, 4, 105-108.	0.5	57

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37	Chemical and morphological variation in tourmalines from the Hub Kapong batholith of peninsular Thailand. <i>Mineralogical Magazine</i> , 1982, 45, 139-147.	0.6	54
38	Chemical variation in garnets from aplites and pegmatites, peninsular Thailand. <i>Mineralogical Magazine</i> , 1983, 47, 353-358.	0.6	54
39	Comparison of silicate minerals as sources of potassium for plant nutrition in sandy soil. <i>European Journal of Soil Science</i> , 2014, 65, 653-662.	1.8	54
40	Elucidation of different forms of organic carbon in marine sediments from the Atlantic coast of Spain using thermal analysis coupled to isotope ratio and quadrupole mass spectrometry. <i>Organic Geochemistry</i> , 2006, 37, 1983-1994.	0.9	50
41	Black Carbon Contribution to Organic Carbon Stocks in Urban Soil. <i>Environmental Science & Technology</i> , 2015, 49, 8339-8346.	4.6	48
42	Trade-offs and synergies in the ecosystem service demand of urban brownfield stakeholders. <i>Ecosystem Services</i> , 2020, 42, 101074.	2.3	45
43	Biodegradation and adsorption of crude oil hydrocarbons supported on "homioionic" montmorillonite clay minerals. <i>Applied Clay Science</i> , 2014, 87, 81-86.	2.6	44
44	Primary lithological variation in the kaolinized St Austell Granite, Cornwall, England. <i>Journal of the Geological Society</i> , 1996, 153, 827-838.	0.9	43
45	The origins of late-stage rocks in the St Austell granite "a re-interpretation. <i>Journal of the Geological Society</i> , 1984, 141, 581-591.	0.9	41
46	Seeing soil carbon: use of thermal analysis in the characterization of soil C reservoirs of differing stability. <i>Mineralogical Magazine</i> , 2005, 69, 425-435.	0.6	41
47	An improved steady-state apparatus for measuring thermal conductivity of soils. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 630-636.	2.5	40
48	Testing the ability of plants to access potassium from framework silicate minerals. <i>Science of the Total Environment</i> , 2017, 574, 476-481.	3.9	39
49	Mineral-enriched biochar delivers enhanced nutrient recovery and carbon dioxide removal. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	39
50	Chemical variation in tourmalines from South-west England. <i>Mineralogical Magazine and Journal of the Mineralogical Society</i> , 1968, 36, 1078-1089.	0.2	38
51	Application of simultaneous thermal analysis mass spectrometry and stable carbon isotope analysis in a carbon sequestration study. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3192-3198.	0.7	37
52	Distribution and mineralogical controls on ammonium in deep groundwaters. <i>Applied Geochemistry</i> , 2004, 19, 1495-1503.	1.4	35
53	Assessment of the ecological potential of mine-water treatment wetlands using a baseline survey of macroinvertebrate communities. <i>Environmental Pollution</i> , 2005, 138, 412-419.	3.7	35
54	Use of red gypsum in soil mixing engineering applications. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2011, 164, 223-234.	0.9	35

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55	Thermal enhancement of PFA-based grout for geothermal heat exchangers. <i>Applied Thermal Engineering</i> , 2013, 54, 559-564.	3.0	34
56	Innovation in Resourcing Geological Materials as Crop Nutrients. <i>Natural Resources Research</i> , 2018, 27, 217-227.	2.2	34
57	Multiple generations of high salinity formation water in the Triassic Sherwood Sandstone: Wytch Farm oilfield, onshore UK. <i>Applied Geochemistry</i> , 2006, 21, 455-475.	1.4	33
58	Refinement of industrial kaolin by microbial removal of iron-bearing impurities. <i>Applied Clay Science</i> , 2013, 86, 47-53.	2.6	33
59	Role of policy in managing mined resources for construction in Europe and emerging economies. <i>Journal of Environmental Management</i> , 2019, 236, 613-621.	3.8	33
60	Clinopyroxene-corundum assemblages from alkali basalt and alluvium, eastern Thailand: constraints on the origin of Thai rubies. <i>Mineralogical Magazine</i> , 2001, 65, 277-295.	0.6	32
61	Amorphous Nickel Sulfide Is Hydrated Nanocrystalline NiS with a Core-Shell Structure. <i>Inorganic Chemistry</i> , 2009, 48, 11486-11488.	1.9	32
62	Passive CO ₂ removal in urban soils: Evidence from brownfield sites. <i>Science of the Total Environment</i> , 2020, 703, 135573.	3.9	32
63	An organic geochemical study of bitumens and their potential source rocks from the South Pennine Orefield, Central England. <i>Organic Geochemistry</i> , 1993, 20, 579-598.	0.9	31
64	Applications of stable isotope ratio mass spectrometry in cattle dung carbon cycling studies. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 495-500.	0.7	31
65	Determination of anions in landfill leachates by ion chromatography. <i>Journal of Chromatography A</i> , 1997, 770, 203-210.	1.8	29
66	Soil Health and Related Ecosystem Services in Organic Agriculture. <i>Sustainable Agriculture Research</i> , 2015, 4, 116.	0.2	29
67	Calcite precipitation in landfills: an essential product of waste stabilization. <i>Mineralogical Magazine</i> , 2001, 65, 603-610.	0.6	28
68	Effect of acid activated clay minerals on biodegradation of crude oil hydrocarbons. <i>International Biodeterioration and Biodegradation</i> , 2014, 88, 185-191.	1.9	28
69	Enabling food security through use of local rocks and minerals. <i>The Extractive Industries and Society</i> , 2020, 7, 480-487.	0.7	28
70	Investigation of three natural bitumens from central England by hydrous pyrolysis and gas chromatography-mass spectrometry. <i>Chemical Geology</i> , 1987, 64, 181-195.	1.4	27
71	Geochemical constraints on kaolinization in the St Austell Granite, Cornwall, England. <i>Journal of the Geological Society</i> , 1998, 155, 829-840.	0.9	27
72	Carbonates and oxalates in sediments and landfill: monitors of death and decay in natural and artificial systems. <i>Journal of the Geological Society</i> , 2000, 157, 229-238.	0.9	26

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73	Silica in landfill leachates: implications for clay mineral stabilities. <i>Applied Geochemistry</i> , 1997, 12, 267-280.	1.4	25
74	Geological controls on kaolin particle shape and consequences for mineral processing. <i>Clay Minerals</i> , 1999, 34, 193-208.	0.2	25
75	Influence of recent vegetation on labile and recalcitrant carbon soil pools in central Queensland, Australia: evidence from thermal analysisâ€quadrupole mass spectrometryâ€isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1751-1758.	0.7	25
76	Evaluating an anaerobic digestion (AD) feedstock derived from a novel non-source segregated municipal solid waste (MSW) product. <i>Waste Management</i> , 2017, 59, 149-159.	3.7	25
77	Feldspar dissolution in the presence of organic acid anions under diagenetic conditions: an experimental study. <i>Organic Geochemistry</i> , 1992, 19, 483-492.	0.9	24
78	The relationship between bitumens and mineralization in the South Pennine Orefield, central England. <i>Journal of the Geological Society</i> , 1995, 152, 751-765.	0.9	23
79	Geothermal exploration in the Fell Sandstone Formation (Mississippian) beneath the city centre of Newcastle upon Tyne, UK: the Newcastle Science Central Deep Geothermal Borehole. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2016, 49, 350-363.	0.8	23
80	Laboratory carbonation of artificial silicate gels enhanced by citrate: Implications for engineered pedogenic carbonate formation. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 1578-1586.	2.3	22
81	Hyper-permeable granite: lessons from test-pumping in the Eastgate Geothermal Borehole, Weardale, UK. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2010, 43, 5-10.	0.8	21
82	Cenozoic cooling and denudation in the North Pennines (northern England, UK) constrained by apatite fission-track analysis of cuttings from the Eastgate Borehole. <i>Proceedings of the Geologists Association</i> , 2012, 123, 450-463.	0.6	21
83	Microbial degradation of crude oil hydrocarbons on organoclay minerals. <i>Journal of Environmental Management</i> , 2014, 144, 197-202.	3.8	21
84	Effect of interlayer cations of montmorillonite on the biodegradation and adsorption of crude oil polycyclic aromatic compounds. <i>Journal of Environmental Management</i> , 2014, 142, 30-35.	3.8	19
85	Identification of the Mechanism of Electrocatalytic Ozone Generation on Ni/Sb-SnO ₂ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 1188-1199.	1.5	17
86	Designing a carbon capture function into urban soils. <i>Proceedings of the Institution of Civil Engineers: Urban Design and Planning</i> , 2011, 164, 121-128.	0.6	16
87	Structural properties of non-combustion-derived refractory organic matter which interfere with BC quantification. <i>Journal of Analytical and Applied Pyrolysis</i> , 2009, 85, 399-407.	2.6	15
88	The composition of nanoparticulate nickel sulfide. <i>Chemical Geology</i> , 2010, 277, 207-213.	1.4	14
89	Biodegradation of crude oil saturated fraction supported on clays. <i>Biodegradation</i> , 2014, 25, 153-165.	1.5	14
90	Ground Gas Monitoring: Implications for Hydraulic Fracturing and CO ₂ Storage. <i>Environmental Science & Technology</i> , 2014, 48, 13610-13616.	4.6	14

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91	The origin and production geochemistry of radioactive lead (²¹⁰ Pb) in NORM-contaminated formation waters. <i>Journal of Geochemical Exploration</i> , 2000, 69-70, 695-699.	1.5	13
92	Carbon isotope determination for separate components of heterogeneous materials using coupled thermogravimetric analysis/isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1187-1195.	0.7	13
93	Production of "green" concrete using red gypsum and waste. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2010, 163, 137-146.	0.4	13
94	Circular economy and six approaches to improve potassium life cycle for global crop production. <i>Resources Policy</i> , 2021, 74, 102426.	4.2	13
95	Appraisal of the use of experimental and analogue studies in the assessment of the role of organic acid anions in diagenesis. <i>Marine and Petroleum Geology</i> , 1994, 11, 10-19.	1.5	12
96	Acetate and propionate in landfill leachates: Implications for the recognition of microbiological influences on the composition of waters in sedimentary systems. <i>Geology</i> , 1997, 25, 279.	2.0	11
97	Sequestering Atmospheric CO ₂ Inorganically: A Solution for Malaysia's CO ₂ Emission. <i>Geosciences (Switzerland)</i> , 2018, 8, 483.	1.0	10
98	Petrology and geochemistry of selected nepheline syenites from Malawi and their potential as alternative potash sources. <i>Journal of African Earth Sciences</i> , 2020, 164, 103769.	0.9	10
99	Removal of atmospheric CO ₂ by engineered soils in infrastructure projects. <i>Journal of Environmental Management</i> , 2022, 314, 115016.	3.8	10
100	Passive Treatment of Mn-Rich Mine Water: Using Fluorescence to Observe Microbiological Activity. <i>Geomicrobiology Journal</i> , 2005, 22, 141-149.	1.0	9
101	Comparison of methods for the characterization and quantification of carbon forms in estuarine and marine sediments from coal mining regions. <i>Organic Geochemistry</i> , 2013, 59, 61-74.	0.9	9
102	Contrasting styles of Sn-W mineralisation in peninsular Thailand and SW England. <i>Mineralium Deposita</i> , 1986, 21, 44.	1.7	8
103	Coupled mineral-fluid evolution of a basin and high: kaolinization in the SW England granites in relation to the development of the Plymouth Basin. <i>Geological Society Special Publication</i> , 2003, 214, 175-195.	0.8	7
104	Mineral Sources of Potassium for Plant Nutrition. , 2011, , 187-203.		7
105	Biodegradation and adsorption of C1- and C2-phenanthrenes and C1- and C2-dibenzothiophenes in the presence of clay minerals: effect on forensic diagnostic ratios. <i>Biodegradation</i> , 2014, 25, 515-527.	1.5	7
106	Compositional changes of crude oil SARA fractions due to biodegradation and adsorption on colloidal support such as clays using Iatroscan. <i>Environmental Science and Pollution Research</i> , 2013, 20, 6445-6454.	2.7	6
107	Carbon sequestration in artificial silicate soils facilitated by arbuscular mycorrhizal fungi and glomalin-related soil protein. <i>European Journal of Soil Science</i> , 2021, 72, 863-870.	1.8	6
108	The nature and significance of illite associated with quartz-hematite hydrothermal veins in the St. Austell pluton, Cornwall, England. <i>Clay Minerals</i> , 2001, 36, 585-597.	0.2	5

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109	Evaluation of raw material extraction, processing, construction and disposal of cement and concrete products: datasets and calculations. <i>Data in Brief</i> , 2019, 24, 103929.	0.5	5
110	GEOTECHNICAL REQUIREMENTS FOR CAPTURING CO2 THROUGH HIGHWAYS LAND. <i>International Journal of GEOMATE</i> , 0, , .	0.1	5
111	Analysis of fountain solutions for anionic components, including alkylbenzenesulfonates, carboxylates and polyphosphates, by a combination of ion-exchange and ion-exclusion chromatography and inductively coupled plasma atomic emission spectrometry. <i>Journal of Chromatography A</i> , 2001, 920, 247-253.	1.8	4
112	Discriminating methane sources in ground gas emissions in NW England. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2019, 52, 110-122.	0.8	4
113	LAYERS: A Decision-Support Tool to Illustrate and Assess the Supply and Value Chain for the Energy Transition. <i>Sustainability</i> , 2022, 14, 7120.	1.6	4
114	Where does all the helium that we use come from?. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1640-1642.	0.7	3
115	The fluorine link between a supergiant ore deposit and a silicic large igneous province: COMMENT. <i>Geology</i> , 2012, 40, e275-e275.	2.0	3
116	Characterization of the sorption of an anthranilate fungicide in soil using thermal analytical and mineralogical techniques. <i>Pest Management Science</i> , 2005, 61, 705-714.	1.7	2
117	Geochemical Characteristics and Expansion Properties of a Highly Potassic Perlitic Rhyolite from Lopburi, Thailand. <i>Resource Geology</i> , 2007, 57, 301-312.	0.3	2
118	Reply to "Discussion on Cenozoic cooling and denudation in the North Pennines (northern England)," <i>Journal of the Geological Society</i> , vol. 123, 2012, pp. 450-463, by Martin H.P. Bott. <i>Proceedings of the Geological Society</i> , 2013, 124, 549-551.	0.6	2
119	Silica geochemistry of landfill leachates. <i>Analytical Proceedings</i> , 1994, 31, 277.	0.4	1
120	Reply to discussion on "Hyper-permeable granite: lessons from test pumping in the Eastgate Geothermal Borehole, Weardale, UK" by P.L. Younger and D.A.C. Manning. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2011, 44, 405.2-407.	0.8	1
121	Effect of modified montmorillonites on the biodegradation and adsorption of biomarkers such as hopanes, steranes and diasteranes. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8881-8889.	2.7	1
122	Introduction to the Sixteenth Glossop Lecture. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2016, 49, 4-4.	0.8	1
123	Discussion on "Palaeogeographical evolution of the Rattray Volcanic Province, Central North Sea" by Quirie et al. 2020 (<i>JGS</i> , 177, 718-737). <i>Journal of the Geological Society</i> , 2021, 178, jgs2020-219.	0.9	1
124	Discussion on the relationship between bitumens and mineralization in the South Pennine Orefield, central England. <i>Journal of the Geological Society</i> , 1996, 153, 653-656.	0.9	1
125	Experimentally-determined solute yields from kaolinite-illite/muscovite assemblages under diagenetic conditions of pressure and temperature. <i>Clay Minerals</i> , 1996, 31, 537-547.	0.2	1
126	Minerals and soil development. , 0, , 103-121.		1

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127	Bacterial communities in soils as indicators of the potential of syenite as an agromineral. Pesquisa Agropecuaria Brasileira, 0, 57, .	0.9	1
128	Stable isotopes in ore genetic studies. Journal of the Geological Society, 1989, 146, 659-662.	0.9	0
129	Experimental Studies of Clay Mineral Occurrence. , 0, , 177-190.		0
130	Resolving the Conflict between Mining and Sustainability. Applied Environmental Research, 2014, , 3-12.	0.3	0
131	Preface to the Special Issue of Green Mining & Mineral Resources, Mining and Environmental Management in ASEAN. Applied Environmental Research, 2014, , 1-2.	0.3	0
132	Rates and Mechanisms of Functional Mineral Reactions in Soils. , 2014, , 121-132.		0
133	Discussion on "Borehole temperature log from the Glasgow Geothermal Energy Research Field Site: a record of past changes to ground surface temperature caused by urban development"™, Scottish Journal of Geology, 56, 134-152, https://doi.org/10.1144/sjg2019-033 . Scottish Journal of Geology, 2021, 57, sjg2020-014.	0.1	0
134	Mineral Deposits Studies Group annual meeting, 1987. Journal of the Geological Society, 1989, 146, 721-724.	0.9	0