David A C Manning

List of Publications by Year
in descending order

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	Mineral-enriched biochar delivers enhanced nutrient recovery and carbon dioxide removal. Communications Earth & Environment, 2022, 3, .	2.6	39
2	Removal of atmospheric CO2 by engineered soils in infrastructure projects. Journal of Environmental Management, 2022, 314, 115016.	3.8	10
3	LAYERS: A Decision-Support Tool to Illustrate and Assess the Supply and Value Chain for the Energy Transition. Sustainability, 2022, 14, 7120.	1.6	4
4	Carbon sequestration in artificial silicate soils facilitated by arbuscular mycorrhizal fungi and glomalinâ€related soil protein. European Journal of Soil Science, 2021, 72, 863-870.	1.8	6
5	Discussion on â€˜Palaeogeographical evolution of the Rattray Volcanic Province, Central North Seaâ€™, by Quirie et al. 2020 (JGS, 177, 718â€“737). Journal of the Geological Society, 2021, 178, jgs2020-219.	0.9	1
6	Circular economy and six approaches to improve potassium life cycle for global crop production. Resources Policy, 2021, 74, 102426.	4.2	13
7	Discussion on â€˜Borehole temperature log from the Glasgow Geothermal Energy Research Field Site: a record of past changes to ground surface temperature caused by urban developmentâ€™, 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
8	Enabling food security through use of local rocks and minerals. The Extractive Industries and Society, 2020, 7, 480-487.	0.7	28
9	Passive CO2 removal in urban soils: Evidence from brownfield sites. Science of the Total Environment, 2020, 703, 135573.	3.9	32
10	Trade-offs and synergies in the ecosystem service demand of urban brownfield stakeholders. Ecosystem Services, 2020, 42, 101074.	2.3	45
11	Petrology and geochemistry of selected nepheline syenites from Malawi and their potential as alternative potash sources. Journal of African Earth Sciences, 2020, 164, 103769.	0.9	10
12	Evaluation of raw material extraction, processing, construction and disposal of cement and concrete products: datasets and calculations. Data in Brief, 2019, 24, 103929.	0.5	5
13	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
14	Role of policy in managing mined resources for construction in Europe and emerging economies. Journal of Environmental Management, 2019, 236, 613-621.	3.8	33
15	Discriminating methane sources in ground gas emissions in NW England. Quarterly Journal of Engineering Geology and Hydrogeology, 2019, 52, 110-122.	0.8	4
16	Innovation in Resourcing Geological Materials as Crop Nutrients. Natural Resources Research, 2018, 27, 217-227.	2.2	34
17	Sequestering Atmospheric CO2 Inorganically: A Solution for Malaysiaâ€™s CO2 Emission. Geosciences (Switzerland), 2018, 8, 483.	1.0	10
18	Identification of the Mechanism of Electrocatalytic Ozone Generation on Ni/Sb-SnO₂. Journal of Physical Chemistry C, 2017, 121, 1188-1199.	1.5	17

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19	Testing the ability of plants to access potassium from framework silicate minerals. Science of the Total Environment, 2017, 574, 476-481.	3.9	39
20	Evaluating an anaerobic digestion (AD) feedstock derived from a novel non-source segregated municipal solid waste (MSW) product. Waste Management, 2017, 59, 149-159.	3.7	25
21	Introduction to the Sixteenth Glossop Lecture. Quarterly Journal of Engineering Geology and Hydrogeology, 2016, 49, 4-4.	0.8	1
22	Geothermal exploration in the Fell Sandstone Formation (Mississippian) beneath the city centre of Newcastle upon Tyne, UK: the Newcastle Science Central Deep Geothermal Borehole. Quarterly Journal of Engineering Geology and Hydrogeology, 2016, 49, 350-363.	0.8	23
23	Soil Health and Related Ecosystem Services in Organic Agriculture. Sustainable Agriculture Research, 2015, 4, 116.	0.2	29
24	How will minerals feed the world in 2050?. Proceedings of the Geologists Association, 2015, 126, 14-17.	0.6	65
25	Black Carbon Contribution to Organic Carbon Stocks in Urban Soil. Environmental Science & Technology, 2015, 49, 8339-8346.	4.6	48
26	Rapid Removal of Atmospheric CO₂ by Urban Soils. Environmental Science & Technology, 2015, 49, 5434-5440.	4.6	76
27	Historical and technical developments of potassium resources. Science of the Total Environment, 2015, 502, 590-601.	3.9	118
28	Comparison of silicate minerals as sources of potassium for plant nutrition in sandy soil. European Journal of Soil Science, 2014, 65, 653-662.	1.8	54
29	Effect of interlayer cations of montmorillonite on the biodegradation and adsorption of crude oil polycyclic aromatic compounds. Journal of Environmental Management, 2014, 142, 30-35.	3.8	19
30	Biodegradation of crude oil saturated fraction supported on clays. Biodegradation, 2014, 25, 153-165.	1.5	14
31	Biodegradation and adsorption of C1- and C2-phenanthrenes and C1- and C2-dibenzothiophenes in the presence of clay minerals: effect on forensic diagnostic ratios. Biodegradation, 2014, 25, 515-527.	1.5	7
32	Effect of acid activated clay minerals on biodegradation of crude oil hydrocarbons. International Biodeterioration and Biodegradation, 2014, 88, 185-191.	1.9	28
33	Biodegradation and adsorption of crude oil hydrocarbons supported on â€œhomoionicâ€• montmorillonite clay minerals. Applied Clay Science, 2014, 87, 81-86.	2.6	44
34	Ground Gas Monitoring: Implications for Hydraulic Fracturing and CO₂ Storage. Environmental Science & Technology, 2014, 48, 13610-13616.	4.6	14
35	Microbial degradation of crude oil hydrocarbons on organoclay minerals. Journal of Environmental Management, 2014, 144, 197-202.	3.8	21
36	An improved steady-state apparatus for measuring thermal conductivity of soils. International Journal of Heat and Mass Transfer, 2014, 72, 630-636.	2.5	40

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37	Resolving the Conflict between Mining and Sustainability. Applied Environmental Research, 2014, , 3-12.	0.3	0
38	Preface to the Special Issue of Green Mining â€œMineral Resources, Mining and Environmental Management in ASEANâ€• Applied Environmental Research, 2014, , 1-2.	0.3	0
39	Rates and Mechanisms of Functional Mineral Reactions in Soils. , 2014, , 121-132.		0
40	Compositional changes of crude oil SARA fractions due to biodegradation and adsorption on colloidal support such as clays using Iatroscan. Environmental Science and Pollution Research, 2013, 20, 6445-6454.	2.7	6
41	Comparison of methods for the characterization and quantification of carbon forms in estuarine and marine sediments from coal mining regions. Organic Geochemistry, 2013, 59, 61-74.	0.9	9
42	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
43	Refinement of industrial kaolin by microbial removal of iron-bearing impurities. Applied Clay Science, 2013, 86, 47-53.	2.6	33
44	Reply to â€˜Discussion on Cenozoic cooling and denudation in the North Pennines (northern England,) Tj ETQq0 0 0 rgBT /Overlock 10 T of the Geologistsâ€™ Association, vol. 123, 2012, pp. 450â€“463â€™, by Martin H.P. Bott. Proceedings of the Geologists Association, 2013, 124, 549-551.	0.6	2
45	Effect of modified montmorillonites on the biodegradation and adsorption of biomarkers such as hopanes, steranes and diasteranes. Environmental Science and Pollution Research, 2013, 20, 8881-8889.	2.7	1
46	Thermal enhancement of PFA-based grout for geothermal heat exchangers. Applied Thermal Engineering, 2013, 54, 559-564.	3.0	34
47	Biogeochemical processes and geotechnical applications: progress, opportunities and challenges. Geotechnique, 2013, 63, 287-301.	2.2	591
48	Passive Sequestration of Atmospheric CO₂ through Coupled Plant-Mineral Reactions in Urban soils. Environmental Science & Technology, 2013, 47, 135-141.	4.6	74
49	The fluorine link between a supergiant ore deposit and a silicic large igneous province: COMMENT. Geology, 2012, 40, e275-e275.	2.0	3
50	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
51	Investigating carbonate formation in urban soils as a method for capture and storage of atmospheric carbon. Science of the Total Environment, 2012, 431, 166-175.	3.9	101
52	Cenozoic cooling and denudation in the North Pennines (northern England, UK) constrained by apatite fission-track analysis of cuttings from the Eastgate Borehole. Proceedings of the Geologists Association, 2012, 123, 450-463.	0.6	21
53	Silicate Production and Availability for Mineral Carbonation. Environmental Science & Technology, 2011, 45, 2035-2041.	4.6	148
54	Laboratory carbonation of artificial silicate gels enhanced by citrate: Implications for engineered pedogenic carbonate formation. International Journal of Greenhouse Gas Control, 2011, 5, 1578-1586.	2.3	22

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55	Mineral Sources of Potassium for Plant Nutrition. , 2011, , 187-203.		7
56	Persistence of soil organic matter as an ecosystem property. Nature, 2011, 478, 49-56.	13.7	4,243
57	Reply to discussion on â€˜Hyper-permeable granite: lessons from test pumping in the Eastgate Geothermal Borehole, Weardale, UKâ€™ by P.L. Younger and D.A.C. Manning. Quarterly Journal of Engineering Geology and Hydrogeology, 2011, 44, 405.2-407.	0.8	1
58	Use of red gypsum in soil mixing engineering applications. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2011, 164, 223-234.	0.9	35
59	Designing a carbon capture function into urban soils. Proceedings of the Institution of Civil Engineers: Urban Design and Planning, 2011, 164, 121-128.	0.6	16
60	Hyper-permeable granite: lessons from test-pumping in the Eastgate Geothermal Borehole, Weardale, UK. Quarterly Journal of Engineering Geology and Hydrogeology, 2010, 43, 5-10.	0.8	21
61	Production of â€˜greenâ€™ concrete using red gypsum and waste. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2010, 163, 137-146.	0.4	13
62	Applications of stable isotope ratio mass spectrometry in cattle dung carbon cycling studies. Rapid Communications in Mass Spectrometry, 2010, 24, 495-500.	0.7	31
63	Mineral sources of potassium for plant nutrition. A review. Agronomy for Sustainable Development, 2010, 30, 281-294.	2.2	222
64	The composition of nanoparticulate nickel sulfide. Chemical Geology, 2010, 277, 207-213.	1.4	14
65	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
66	Structural properties of non-combustion-derived refractory organic matter which interfere with BC quantification. Journal of Analytical and Applied Pyrolysis, 2009, 85, 399-407.	2.6	15
67	Carbonate precipitation in artificial soils as a sink for atmospheric carbon dioxide. Applied Geochemistry, 2009, 24, 1757-1764.	1.4	134
68	â€œAmorphous Nickel Sulfideâ€•Is Hydrated Nanocrystalline NiS with a Coreâˆ’Shell Structure. Inorganic Chemistry, 2009, 48, 11486-11488.	1.9	32
69	Where does all the helium that we use come from?. Rapid Communications in Mass Spectrometry, 2008, 22, 1640-1642.	0.7	3
70	Carbon isotope determination for separate components of heterogeneous materials using coupled thermogravimetric analysis/isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 1187-1195.	0.7	13
71	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. Rapid Communications in Mass Spectrometry, 2008, 22, 1751-1758.	0.7	25
72	Use of pyrolysis/GCâ€“MS combined with thermal analysis to monitor C and N changes in soil organic matter from a Mediterranean fire affected forest. Catena, 2008, 74, 296-303.	2.2	102

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73	Phosphate Minerals, Environmental Pollution and Sustainable Agriculture. Elements, 2008, 4, 105-108.	0.5	57
74	Direct Detection of Black Carbon in Soils by Pyâ€GC/MS, Carbonâ€13 NMR Spectroscopy and Thermogravimetric Techniques. Soil Science Society of America Journal, 2008, 72, 258-267.	1.2	94
75	Biological enhancement of soil carbonate precipitation: passive removal of atmospheric CO₂. Mineralogical Magazine, 2008, 72, 639-649.	0.6	78
76	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
77	Comparison of quantification methods to measure fireâ€derived (black/elemental) carbon in soils and sediments using reference materials from soil, water, sediment and the atmosphere. Global Biogeochemical Cycles, 2007, 21, .	1.9	483
78	Heterotrophic microbial communities use ancient carbon following glacial retreat. Biology Letters, 2007, 3, 487-490.	1.0	201
79	Geochemical Characteristics and Expansion Properties of a Highly Potassic Perlitic Rhyolite from Lopburi, Thailand. Resource Geology, 2007, 57, 301-312.	0.3	2
80	Structural and chemical changes of thermally treated bone apatite. Journal of Materials Science, 2007, 42, 9807-9816.	1.7	110
81	Multiple generations of high salinity formation water in the Triassic Sherwood Sandstone: Wytch Farm oilfield, onshore UK. Applied Geochemistry, 2006, 21, 455-475.	1.4	33
82	Manganese removal from mine waters â€“ investigating the occurrence and importance of manganese carbonates. Applied Geochemistry, 2006, 21, 1274-1287.	1.4	70
83	The composition of nanoparticulate mackinawite, tetragonal iron(II) monosulfide. Chemical Geology, 2006, 235, 286-298.	1.4	89
84	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. Organic Geochemistry, 2006, 37, 1983-1994.	0.9	50
85	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
86	Characterization of the sorption of an anthranilate fungicide in soil using thermal analytical and mineralogical techniques. Pest Management Science, 2005, 61, 705-714.	1.7	2
87	Application of simultaneous thermal analysis mass spectrometry and stable carbon isotope analysis in a carbon sequestration study. Rapid Communications in Mass Spectrometry, 2005, 19, 3192-3198.	0.7	37
88	USE OF THERMOGRAVIMETRYâ€“DIFFERENTIAL SCANNING CALORIMETRY TO CHARACTERIZE MODELABLE SOIL ORGANIC MATTER FRACTIONS. Soil Science Society of America Journal, 2005, 69, 136-140.	1.2	76
89	Seeing soil carbon: use of thermal analysis in the characterization of soil C reservoirs of differing stability. Mineralogical Magazine, 2005, 69, 425-435.	0.6	41
90	Passive Treatment of Mn-Rich Mine Water: Using Fluorescence to Observe Microbiological Activity. Geomicrobiology Journal, 2005, 22, 141-149.	1.0	9

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91	Assessment of the ecological potential of mine-water treatment wetlands using a baseline survey of macroinvertebrate communities. Environmental Pollution, 2005, 138, 412-419.	3.7	35
92	Thermochemical sulphate reduction (TSR): experimental determination of reaction kinetics and implications of the observed reaction rates for petroleum reservoirs. Organic Geochemistry, 2004, 35, 393-404.	0.9	164
93	Distribution and mineralogical controls on ammonium in deep groundwaters. Applied Geochemistry, 2004, 19, 1495-1503.	1.4	35
94	Coupled mineral-fluid evolution of a basin and high: kaolinization in the SW England granites in relation to the development of the Plymouth Basin. Geological Society Special Publication, 2003, 214, 175-195.	0.8	7
95	The nature and significance of illite associated with quartz- hematite hydrothermal veins in the St. Austell pluton, Cornwall, England. Clay Minerals, 2001, 36, 585-597.	0.2	5
96	Calcite precipitation in landfills: an essential product of waste stabilization. Mineralogical Magazine, 2001, 65, 603-610.	0.6	28
97	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. Journal of Chromatography A, 2001, 920, 247-253.	1.8	4
98	Recycling construction and demolition wastes â€“ a UK perspective. Management of Environmental Quality, 2001, 12, 146-157.	0.4	75
99	Clinopyroxene-corundum assemblages from alkali basalt and alluvium, eastern Thailand: constraints on the origin of Thai rubies. Mineralogical Magazine, 2001, 65, 277-295.	0.6	32
100	Carbonates and oxalates in sediments and landfill: monitors of death and decay in natural and artificial systems. Journal of the Geological Society, 2000, 157, 229-238.	0.9	26
101	The origin and production geochemistry of radioactive lead (210 Pb) in NORM-contaminated formation waters. Journal of Geochemical Exploration, 2000, 69-70, 695-699.	1.5	13
102	Geological controls on kaolin particle shape and consequences for mineral processing. Clay Minerals, 1999, 34, 193-208.	0.2	25
103	Influence of time and temperature on reactions and transformations of muscovite mica. Advances in Applied Ceramics, 1999, 98, 122-126.	0.4	63
104	Geochemical constraints on kaolinization in the St Austell Granite, Cornwall, England. Journal of the Geological Society, 1998, 155, 829-840.	0.9	27
105	Acetate and propionate in landfill leachates: Implications for the recognition of microbiological influences on the composition of waters in sedimentary systems. Geology, 1997, 25, 279.	2.0	11
106	Silica in landfill leachates: implications for clay mineral stabilities. Applied Geochemistry, 1997, 12, 267-280.	1.4	25
107	Determination of anions in landfill leachates by ion chromatography. Journal of Chromatography A, 1997, 770, 203-210.	1.8	29
108	Primary lithological variation in the kaolinized St Austell Granite, Cornwall, England. Journal of the Geological Society, 1996, 153, 827-838.	0.9	43

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109	Discussion on the relationship between bitumens and mineralization in the South Pennine Orefield, central England. Journal of the Geological Society, 1996, 153, 653-656.	0.9	1
110	Experimentally-determined solute yields from kaolinite-illite/muscovite assemblages under diagenetic conditions of pressure and temperature. Clay Minerals, 1996, 31, 537-547.	0.2	1
111	The relationship between bitumens and mineralization in the South Pennine Orefield, central England. Journal of the Geological Society, 1995, 152, 751-765.	0.9	23
112	Chemical variation and significance of tourmaline from Southwest England. Economic Geology, 1995, 90, 495-519.	1.8	176
113	Comparison of geochemical indices used for the interpretation of palaeoredox conditions in ancient mudstones. Chemical Geology, 1994, 111, 111-129.	1.4	1,583
114	Appraisal of the use of experimental and analogue studies in the assessment of the role of organic acid anions in diagenesis. Marine and Petroleum Geology, 1994, 11, 10-19.	1.5	12
115	Silica geochemistry of landfill leachates. Analytical Proceedings, 1994, 31, 277.	0.4	1
116	An organic geochemical study of bitumens and their potential source rocks from the South Pennine Orefield, Central England. Organic Geochemistry, 1993, 20, 579-598.	0.9	31
117	Feldspar dissolution in the presence of organic acid anions under diagenetic conditions: an experimental study. Organic Geochemistry, 1992, 19, 483-492.	0.9	24
118	Evolution of the Cornubian ore field, Southwest England; Part II, Mineral deposits and ore-forming processes. Economic Geology, 1989, 84, 1101-1133.	1.8	101
119	Stable isotopes in ore genetic studies. Journal of the Geological Society, 1989, 146, 659-662.	0.9	0
120	Mineral Deposits Studies Group annual meeting, 1987. Journal of the Geological Society, 1989, 146, 721-724.	0.9	0
121	Investigation of three natural bitumens from central England by hydrous pyrolysis and gas chromatography-mass spectrometry. Chemical Geology, 1987, 64, 181-195.	1.4	27
122	Contrasting styles of Sn-W mineralisation in peninsular Thailand and SW England. Mineralium Deposita, 1986, 21, 44.	1.7	8
123	The origins of late-stage rocks in the St Austell graniteâ€”a re-interpretation. Journal of the Geological Society, 1984, 141, 581-591.	0.9	41
124	The behaviour of tungsten in granitic melt-vapour systems. Contributions To Mineralogy and Petrology, 1984, 86, 286-293.	1.2	115
125	Petrogenesis of tourmaline granites and topaz granites; the contribution of experimental data. Physics of the Earth and Planetary Interiors, 1984, 35, 31-50.	0.7	140
126	Chemical variation in garnets from aplites and pegmatites, peninsular Thailand. Mineralogical Magazine, 1983, 47, 353-358.	0.6	54

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127	Chemical and morphological variation in tourmalines from the Hub Kapong batholith of peninsular Thailand. Mineralogical Magazine, 1982, 45, 139-147.	0.6	54
128	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
129	The effect of fluorine on liquidus phase relationships in the system Qz-Ab-Or with excess water at 1 kb. Contributions To Mineralogy and Petrology, 1981, 76, 206-215.	1.2	510
130	Chemical variation in tourmalines from South-west England. Mineralogical Magazine and Journal of the Mineralogical Society, 1968, 36, 1078-1089.	0.2	38
131	Experimental Studies of Clay Mineral Occurrence. , 0, , 177-190.		0
132	GEOTECHNICAL REQUIREMENTS FOR CAPTURING CO2 THROUGH HIGHWAYS LAND. International Journal of GEOMATE, 0, , .	0.1	5
133	Minerals and soil development. , 0, , 103-121.		1
134	Bacterial communities in soils as indicators of the potential of syenite as an agromineral. Pesquisa Agropecuaria Brasileira, 0, 57, .	0.9	1