

Max L Coleman

List of Publications by Year in descending order

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107
papers

8,487
citations

50276

46
h-index

43889

91
g-index

109
all docs

109
docs citations

109
times ranked

6490
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotopic evidence for source of diagenetic carbonates formed during burial of organic-rich sediments. <i>Nature</i> , 1977, 269, 209-213.	27.8	1,172
2	Reduction of water with zinc for hydrogen isotope analysis. <i>Analytical Chemistry</i> , 1982, 54, 993-995.	6.5	1,163
3	Reduction of Fe(III) in sediments by sulphate-reducing bacteria. <i>Nature</i> , 1993, 361, 436-438.	27.8	433
4	Controls on development and diversity of Early Archean stromatolites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9548-9555.	7.1	235
5	Pore water evolution during sediment burial from isotopic and mineral chemistry of calcite, dolomite and siderite concretions. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 2321-2334.	3.9	216
6	Direct reduction of sulfates to sulfate dioxide for isotopic analysis. <i>Analytical Chemistry</i> , 1978, 50, 1594-1595.	6.5	198
7	Coupling between sulfur recycling and syndepositional carbonate dissolution: evidence from oxygen and sulfur isotope composition of pore water sulfate, South Florida Platform, U.S.A.. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2529-2546.	3.9	190
8	Formation of siderite-Mg-calcite-iron sulphide concretions in intertidal marsh and sandflat sediments, north Norfolk, England. <i>Sedimentology</i> , 1990, 37, 325-343.	3.1	185
9	Microbial processes: Controls on the shape and composition of carbonate concretions. <i>Marine Geology</i> , 1993, 113, 127-140.	2.1	162
10	Fe-sulphate-rich evaporative mineral precipitates from the R�o Tinto, southwest Spain. <i>Mineralogical Magazine</i> , 2003, 67, 263-278.	1.4	162
11	Changes in carbon and oxygen isotope composition during limestone diagenesis. <i>Sedimentology</i> , 1980, 27, 107-118.	3.1	160
12	Carbon, oxygen and sulphur isotope variations in concretions from the Upper Lias of N.E. England. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 329-340.	3.9	156
13	Diverse styles of submarine venting on the ultraslow spreading Mid-Cayman Rise. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14020-14025.	7.1	140
14	Zinc homeostasis in man: studies using a new stable isotope-dilution technique. <i>British Journal of Nutrition</i> , 1984, 51, 199.	2.3	134
15	Geochemistry of inorganic and organic sulphur in organic-rich sediments from the Peru Margin. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 3581-3595.	3.9	129
16	A cross-calibration of chlorine isotopic measurements and suitability of seawater as the international reference material. <i>Chemical Geology</i> , 2004, 207, 1-12.	3.3	123
17	Microbial influence on the oxygen isotopic composition of diagenetic siderite. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1705-1711.	3.9	116
18	A simple three-dimensional model of diffusion-with-precipitation applied to localised pyrite formation in framboids, fossils and detrital iron minerals. <i>Marine Geology</i> , 1993, 113, 89-100.	2.1	108

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19	Formation of fossil hydrothermal chimneys and mounds from Silvermines, Ireland. <i>Nature</i> , 1983, 306, 545-550.	27.8	106
20	Characterisation of chlorinated hydrocarbons from chlorine and carbon isotopic compositions: scope of application to environmental problems. <i>Applied Geochemistry</i> , 2001, 16, 1021-1031.	3.0	106
21	The Chlorine Isotope Composition of Earth's Mantle. <i>Science</i> , 2008, 319, 1518-1520.	12.6	102
22	The effect of aqueous diffusion on the fractionation of chlorine and bromine stable isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3539-3548.	3.9	102
23	Hydrochemical variations and contaminant load in the R�o Tinto (Spain) during flood events. <i>Journal of Hydrology</i> , 2008, 350, 25-40.	5.4	97
24	Material flux and porosity changes during sediment diagenesis. <i>Nature</i> , 1992, 356, 52-54.	27.8	88
25	Stable isotopic characterisation of francolite formation. <i>Earth and Planetary Science Letters</i> , 1986, 77, 20-34.	4.4	85
26	A Magnus opus: Helium, neon, and argon isotopes in a North Sea oilfield. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 831-849.	3.9	85
27	Origin of sedimentary francolite from its sulphur and carbon isotope composition. <i>Nature</i> , 1983, 302, 516-518.	27.8	80
28	Effect of bacteria on the elemental composition of early diagenetic siderite: implications for palaeoenvironmental interpretations. <i>Sedimentology</i> , 1997, 44, 759-765.	3.1	74
29	Inorganic synthesis of Fe�Ca�Mg carbonates at low temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5361-5376.	3.9	73
30	Aqueous geochemistry and oxygen isotope compositions of acid mine drainage from the R�o Tinto, SW Spain, highlight inconsistencies in current models. <i>Chemical Geology</i> , 2009, 265, 321-334.	3.3	65
31	Isotopic data for scleractinian corals explain their palaeotemperature uncertainties. <i>Nature</i> , 1980, 283, 557-559.	27.8	61
32	Origin and history of hydrothermal fluids of the Reykjanes and Krafla geothermal fields, Iceland. <i>Contributions To Mineralogy and Petrology</i> , 1986, 94, 99-109.	3.1	60
33	Rediscovery of classical methods and their application to the measurement of stable bromine isotopes in natural samples. <i>Chemical Geology</i> , 2000, 167, 393-402.	3.3	59
34	Pyrohydrolysis-IRMS determination of silicate chlorine stable isotope compositions. Application to oceanic crust and meteorite samples. <i>Chemical Geology</i> , 2007, 242, 187-201.	3.3	59
35	Textural and stable isotopic evidence for the genesis of the Tynagh base metal deposit, Ireland. <i>Economic Geology</i> , 1981, 76, 27-55.	3.8	58
36	Methods for the Stable Isotopic Analysis of Chlorine in Chlorate and Perchlorate Compounds. <i>Analytical Chemistry</i> , 2001, 73, 4946-4950.	6.5	58

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37	Can tree-ring chemistry reveal absolute dates for past volcanic eruptions?. <i>Journal of Archaeological Science</i> , 2005, 32, 1265-1274.	2.4	58
38	Design, Fabrication, and Test of a Hydrothermal Reactor for Origin-of-Life Experiments. <i>Astrobiology</i> , 2010, 10, 799-810.	3.0	58
39	Carbon and hydrogen isotopic compositions of the NBS 22 and NBS 21 stable isotope reference materials: An inter-laboratory comparison. <i>Organic Geochemistry</i> , 1983, 5, 3-6.	1.8	57
40	GC/Multiple Collector-ICPMS Method for Chlorine Stable Isotope Analysis of Chlorinated Aliphatic Hydrocarbons. <i>Analytical Chemistry</i> , 2006, 78, 4663-4667.	6.5	55
41	Different isotope and chemical patterns of pyrite oxidation related to lag and exponential growth phases of <i>Acidithiobacillus ferrooxidans</i> reveal a microbial growth strategy. <i>Earth and Planetary Science Letters</i> , 2008, 270, 63-72.	4.4	55
42	Carbon and oxygen isotopic composition of structural carbonate in sedimentary francolite. <i>Journal of the Geological Society</i> , 1980, 137, 669-673.	2.1	53
43	Sequential Determination of Chlorine and Carbon Isotopic Composition in Single Microliter Samples of Chlorinated Solvent. <i>Analytical Chemistry</i> , 1997, 69, 4259-4266.	6.5	52
44	Microbial Isotopic Fractionation of Perchlorate Chlorine. <i>Applied and Environmental Microbiology</i> , 2003, 69, 4997-5000.	3.1	49
45	A large volume particulate and water multi-sampler with in situ preservation for microbial and biogeochemical studies. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 94, 195-206.	1.4	49
46	Encounters with an unearthy mudstone: Understanding the first mudstone found on Mars. <i>Sedimentology</i> , 2017, 64, 311-358.	3.1	48
47	Morphological Biosignatures in Gypsum: Diverse Formation Processes of Messinian (â ¹ / _{6.0} Ma) Gypsum Stromatolites. <i>Astrobiology</i> , 2013, 13, 870-886.	3.0	47
48	Basin scale evolution of formation waters: a diagenetic and formation water study of the Triassic Chaunoy Formation, Paris Basin. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2513-2528.	3.9	46
49	Sulfur isotope study of the Aberfeldy barite, zinc, lead deposit and minor sulfide mineralization in the Dalradian metamorphic terrain, Scotland. <i>Economic Geology</i> , 1983, 78, 1619-1656.	3.8	45
50	Monitoring subsurface CO ₂ emplacement and security of storage using muon tomography. <i>International Journal of Greenhouse Gas Control</i> , 2012, 11, 21-24.	4.6	43
51	Ignoring IUPAC guidelines for measurement and reporting of stable isotope abundance values affects us all. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 1953-1955.	1.5	43
52	The oxygen isotope equilibrium fractionation between sulfite species and water. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 120, 562-581.	3.9	41
53	Chlorine Stable Isotopes: A Comparison of Dual Inlet and Thermal Ionization Mass Spectrometric Measurements. <i>Analytical Chemistry</i> , 2000, 72, 2261-2264.	6.5	40
54	Solution chemistry during the lag phase and exponential phase of pyrite oxidation by <i>Thiobacillus ferrooxidans</i> . <i>Chemical Geology</i> , 2001, 175, 307-317.	3.3	40

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55	The Urey Instrument: An Advanced In Situ Organic and Oxidant Detector for Mars Exploration. <i>Astrobiology</i> , 2008, 8, 583-595.	3.0	40
56	Record of natural and anthropogenic changes in reef environments (Barbados West Indies) using laser ablation ICP-MS and sclerochronology on coral cores. <i>Coral Reefs</i> , 2003, 22, 416-426.	2.2	39
57	Determination of both chemical and stable isotope composition in milligramme-size carbonate samples. <i>Sedimentary Geology</i> , 1989, 65, 233-238.	2.1	38
58	Origin of sulphur and geothermometry of hydrothermal sulphides from the Galapagos Rift, 86 Å°W. <i>Nature</i> , 1982, 299, 142-144.	27.8	37
59	Source of sulphur in the Ebro Basin (northern Spain) Tertiary nonmarine evaporite deposits as evidenced by sulphur isotopes. <i>Chemical Geology</i> , 1979, 25, 163-168.	3.3	36
60	Palaeohydrodynamics of fluids in the Brent Group (Oseberg Field, Norwegian North Sea) from chemical and isotopic compositions of formation waters. <i>Applied Geochemistry</i> , 2001, 16, 609-632.	3.0	35
61	Septarian concretions from the Oxford Clay (Jurassic, England, UK): involvement of original marine and multiple external pore fluids. <i>Sedimentology</i> , 2001, 48, 507-531.	3.1	33
62	A high continental weathering flux into Paleoproterozoic seawater revealed by strontium isotope analysis of 3.26 Ga barite. <i>Earth and Planetary Science Letters</i> , 2016, 454, 28-35.	4.4	33
63	A mass spectrometric investigation of the reaction between ¹⁸ O ₂ and reduced tree laccase A differentiation between the two water molecules formed. <i>FEBS Letters</i> , 1978, 89, 180-182.	2.8	32
64	Environmental baseline monitoring for shale gas development in the UK: Identification and geochemical characterisation of local source emissions of methane to atmosphere. <i>Science of the Total Environment</i> , 2020, 708, 134600.	8.0	32
65	Lead and sulfur isotopic compositions of galena from the Laisvall sandstone lead-zinc deposit, Sweden. <i>Economic Geology</i> , 1981, 76, 2042-2046.	3.8	31
66	Why did life develop on the surface of the Earth in the Cambrian?. <i>Geoscience Frontiers</i> , 2016, 7, 865-873.	8.4	30
67	Trophic regions of a hydrothermal plume dispersing away from an ultramafic-hosted vent system: Von Damm vent site, Mid-Cayman Rise. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 317-327.	2.5	29
68	Determination of reduced sulphur species in sediments – an evaluation and modified technique. <i>Chemical Geology</i> , 1997, 141, 185-194.	3.3	27
69	A dendrochemical study of <i>Pinus sylvestris</i> from Siljansfors Experimental Forest, central Sweden. <i>Applied Geochemistry</i> , 2006, 21, 1681-1691.	3.0	26
70	Effect of depth and vent fluid composition on the carbon sources at two neighboring deep-sea hydrothermal vent fields (Mid-Cayman Rise). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 104, 122-133.	1.4	25
71	Measurement of Sulfur Isotope Compositions by Tunable Laser Spectroscopy of SO ₂ . <i>Analytical Chemistry</i> , 2007, 79, 9261-9268.	6.5	24
72	Microbial perchlorate reduction: A precise laboratory determination of the chlorine isotope fractionation and its possible biochemical basis. <i>Earth and Planetary Science Letters</i> , 2008, 269, 605-613.	4.4	24

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73	Isotopic evidence of the pivotal role of sulfite oxidation in shaping the oxygen isotope signature of sulfate. <i>Chemical Geology</i> , 2013, 354, 186-202.	3.3	24
74	Potassium-calcium dates from pegmatitic micas. <i>Earth and Planetary Science Letters</i> , 1971, 12, 399-405.	4.4	23
75	A preliminary investigation into mining and smelting impacts on trace element concentrations in the soils and vegetation around Tharsis, SW Spain. <i>Mineralogical Magazine</i> , 2003, 67, 279-288.	1.4	23
76	Facility level measurement of offshore oil and gas installations from a medium-sized airborne platform: method development for quantification and source identification of methane emissions. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 71-88.	3.1	21
77	Simulation of muon radiography for monitoring CO ₂ stored in a geological reservoir. <i>International Journal of Greenhouse Gas Control</i> , 2015, 42, 644-654.	4.6	20
78	Determination of Bromine Stable Isotope Ratios from Saline Solutions by ⁸² Br Laser-Plasma MC-ICPMS Including a Comparison between High- and Low-Resolution Modes, and Three Introduction Systems. <i>Analytical Chemistry</i> , 2016, 88, 3891-3898.	6.5	19
79	Isotopic evidence for UK Upper Permian mineralization by bacterial reduction of evaporites. <i>Nature</i> , 1983, 301, 597-599.	27.8	18
80	LASSIE (laser ablation sampler for stable isotope extraction) applied to carbonate minerals. <i>Chemical Geology: Isotope Geoscience Section</i> , 1992, 101, 43-52.	0.6	18
81	Sulfur and oxygen isotopic compositions of the dissolved sulphate in the meteoric water in Chuncheon, Korea. <i>Geosciences Journal</i> , 2007, 11, 357-367.	1.2	17
82	Sulphur isotopic investigation of vein lead-zinc mineralization at Tyndrum, Scotland. <i>Mineralium Deposita</i> , 1983, 18, 477-485.	4.1	16
83	Phosphorite geochemistry: Isotopic evidence for meteoric alteration of francolite on a local scale. <i>Chemical Geology: Isotope Geoscience Section</i> , 1987, 65, 415-425.	0.6	16
84	The isotopic composition of strontium and oxygen in lavas from St. Helena, South Atlantic. <i>Earth and Planetary Science Letters</i> , 1976, 31, 209-223.	4.4	15
85	Sources of organic carbon for <i>Rimicaris hybisae</i> : Tracing individual fatty acids at two hydrothermal vent fields in the Mid-Cayman rise. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 100, 13-20.	1.4	15
86	Hiatal surfaces from the Miocene Globigerina Limestone Formation of Malta: Biostratigraphy, sedimentology, trace fossils and early diagenesis. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 270, 239-251.	2.3	14
87	Refining the extraction methodology of carbonate associated sulfate: Evidence from synthetic and natural carbonate samples. <i>Chemical Geology</i> , 2015, 411, 36-48.	3.3	14
88	Perspectives on the Future of Oil. <i>Energy Exploration and Exploitation</i> , 2000, 18, 147-206.	2.3	13
89	Sour gas and water chemistry of the Bridport Sands reservoir, Wytch Farm, UK. <i>Geological Society Special Publication</i> , 1995, 86, 303-314.	1.3	12
90	Passive, continuous monitoring of carbon dioxide geostorage using muon tomography. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180059.	3.4	9

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91	Method for Simultaneous Oxygen and Hydrogen Isotope Analysis of Water of Crystallization in Hydrated Minerals. <i>Analytical Chemistry</i> , 2008, 80, 7084-7089.	6.5	6
92	Pre-concentration of chloride in dilute water-samples for precise $\delta^{37}\text{Cl}$ determination using a strong ion-exchange resin: Application to rainwaters. <i>Chemical Geology</i> , 2015, 413, 86-93.	3.3	5
93	The Impact of Geochemistry. <i>Elements</i> , 2015, 11, 239-240.	0.5	5
94	Versatile, ultra-low sample volume gas analyzer using a rapid, broad-tuning ECQCL and a hollow fiber gas cell. , 2017, , .		5
95	Measurements and modeling of $^{16}\text{O}^{12}\text{C}^{17}\text{O}$ spectroscopic parameters at $2\ \mu\text{m}$. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 203, 249-264.	2.3	4
96	An Adjustable Gas Inlet System for an Isotope Mass Spectrometer. <i>Review of Scientific Instruments</i> , 1972, 43, 1501-1503.	1.3	3
97	A buoyant life investigating mobile platform (BLIMP). <i>Advances in Space Research</i> , 2006, 38, 1198-1208.	2.6	3
98	The relationship of diagenesis with a complex microbial ecosystem in the phosphatic interval of the Miocene Monterey Formation: evidence from stable isotopes and mineralogy. <i>Marine Geology</i> , 2019, 413, 112-128.	2.1	3
99	Tumbleweed: A New Paradigm for Surveying the Surface of Mars for In-situ Resources. , 2009, , 401-429.		2
100	A method for separating trace quantities of calcium from minerals for mass spectrometry. <i>Analytica Chimica Acta</i> , 1972, 60, 426-429.	5.4	1
101	Isotopic evidence for the nature and extent of fluid involvement in metasomatism of the St. Lawrence Granite (Newfoundland, Canada). <i>Chemical Geology</i> , 1984, 45, 289-298.	3.3	1
102	Astrobiology Special Collection: Instruments for <i>In Situ</i> Exploration of Planets. <i>Astrobiology</i> , 2008, 8, 569-570.	3.0	1
103	In situ geochronology as a mission-enabling technology. , 2012, , .		1
104	Session 24. Inorganic and Organic Biosignatures in Minerals. <i>Astrobiology</i> , 2008, 8, 403-417.	3.0	0
105	A new type of article for Terra Nova. <i>Terra Nova</i> , 2015, 27, 399-399.	2.1	0
106	Debate articles: have changes in Quaternary climate affected erosion?. <i>Terra Nova</i> , 2016, 28, 1-1.	2.1	0
107	HOW TO WRITE A GOOD ARTICLE FOR PUBLICATION IN TERRA NOVA. <i>Terra Nova</i> , 2018, 30, 389-392.	2.1	0