

John B Cliff

List of Publications by Year in descending order

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69
papers

4,076
citations

117619

34
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118840

62
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70
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70
docs citations

70
times ranked

5431
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating Drought-Tolerance Mechanisms in Plant Roots through ¹ H NMR Metabolomics in Parallel with MALDI-MS, and NanoSIMS Imaging Techniques. <i>Environmental Science & Technology</i> , 2022, 56, 2021-2032.	10.0	10
2	Correlative SIP-FISH-Raman-SEM-NanoSIMS links identity, morphology, biochemistry, and physiology of environmental microbes. <i>ISME Communications</i> , 2022, 2, .	4.2	12
3	Isotopic Heterogeneity Imaged in a Uranium Fuel Pellet with Extreme Ultraviolet Laser Ablation and Ionization Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 1016-1024.	6.5	8
4	Direct visualization of radiation-induced transformations at alkali halide-air interfaces. <i>Communications Chemistry</i> , 2021, 4, .	4.5	2
5	Correlating nanoscale secondary ion mass spectrometry and atom probe tomography analysis of uranium enrichment in metallic nuclear fuel. <i>Analyst</i> , 2021, 146, 69-74.	3.5	10
6	Extreme ultraviolet laser ablation mass spectrometry for chemical mapping at the nanoscale. , 2021, , .		0
7	Focused ion beam for improved spatially-resolved mass spectrometry and analysis of radioactive materials for uranium isotopic analysis. <i>Talanta</i> , 2020, 211, 120720.	5.5	15
8	Complexation by Organic Matter Controls Uranium Mobility in Anoxic Sediments. <i>Environmental Science & Technology</i> , 2020, 54, 1493-1502.	10.0	37
9	Calcareous organic matter coatings sequester siderophores in alkaline soils. <i>Science of the Total Environment</i> , 2020, 724, 138250.	8.0	14
10	Facet-selective adsorption of Fe(II) on hematite visualized by nanoscale secondary ion mass spectrometry. <i>Environmental Science: Nano</i> , 2019, 6, 2429-2440.	4.3	10
11	The formation mechanisms of sedimentary pyrite nodules determined by trace element and sulfur isotope microanalysis. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 53-68.	3.9	53
12	Experimental Insights into the Growth of Single Truncated Anatase Bipyramids. <i>Chemistry - A European Journal</i> , 2019, 25, 993-996.	3.3	2
13	Phenazine-carboxylic acid and soil moisture influence biofilm development and turnover of rhizobacterial biomass on wheat root surfaces. <i>Environmental Microbiology</i> , 2018, 20, 2178-2194.	3.8	35
14	NanoSIMS for biological applications: Current practices and analyses. <i>Biointerphases</i> , 2018, 13, 03B301.	1.6	147
15	Tumor Retention of Enzyme-Responsive Pt(II) Drug-Loaded Nanoparticles Imaged by Nanoscale Secondary Ion Mass Spectrometry and Fluorescence Microscopy. <i>ACS Central Science</i> , 2018, 4, 1477-1484.	11.3	39
16	Uranium(IV) adsorption by natural organic matter in anoxic sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 711-716.	7.1	142
17	Wallula Basalt Pilot Demonstration Project: Post-injection Results and Conclusions. <i>Energy Procedia</i> , 2017, 114, 5783-5790.	1.8	51
18	Link between light-triggered Mg-banding and chamber formation in the planktic foraminifera <i>Neogloboquadrina dutertrei</i> . <i>Nature Communications</i> , 2017, 8, 15441.	12.8	73

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19	An isotopic perspective on growth and differentiation of Proterozoic orogenic crust: From subduction magmatism to cratonization. <i>Lithos</i> , 2017, 268-271, 76-86.	1.4	33
20	Field Validation of Supercritical CO ₂ Reactivity with Basalts. <i>Environmental Science and Technology Letters</i> , 2017, 4, 6-10.	8.7	117
21	Assessing the fidelity of marine vertebrate microfossil $\delta^{18}O$ signatures and their potential for palaeo-ecological and -climatic reconstructions. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 465, 79-92.	2.3	8
22	Carbon isotopes of eclogite-hosted diamonds from the Nyurbinskaya kimberlite pipe, Yakutia: The metasomatic origin of diamonds. <i>Chemical Geology</i> , 2017, 455, 131-147.	3.3	10
23	Diet-Microbiome Interactions in Health Are Controlled by Intestinal Nitrogen Source Constraints. <i>Cell Metabolism</i> , 2017, 25, 140-151.	16.2	148
24	The golden ark: arsenopyrite crystal plasticity and the retention of gold through high strain and metamorphism. <i>Terra Nova</i> , 2016, 28, 181-187.	2.1	28
25	Oxygen isotopes in Pilbara Craton zircons support a global increase in crustal recycling at 3.2 Ga. <i>Lithos</i> , 2015, 228-229, 90-98.	1.4	39
26	Micro-scale quadruple sulfur isotope analysis of pyrite from the ~ 43480 Ma Dresser Formation: New insights into sulfur cycling on the early Earth. <i>Precambrian Research</i> , 2015, 258, 24-35.	2.7	36
27	Syn-volcanic cannibalisation of juvenile felsic crust: Superimposed giant $\delta^{18}O$ -depleted rhyolite systems in the hot and thinned crust of Mesoproterozoic central Australia. <i>Earth and Planetary Science Letters</i> , 2015, 424, 15-25.	4.4	17
28	Uncovering framboidal pyrite biogenicity using nano-scale CNorg mapping. <i>Geology</i> , 2015, 43, 27-30.	4.4	82
29	Fluid inclusion and sulfur and oxygen isotope studies on quartz-carbonate-sulfide veins of the Carvoaria Velha deposit, C3rrego do S4tio gold lineament, Quadril4tero Ferr4fero, Minas Gerais, Brazil. <i>Ore Geology Reviews</i> , 2015, 67, 11-33.	2.7	14
30	Exploring the transfer of recent plant photosynthates to soil microbes: mycorrhizal pathway vs direct root exudation. <i>New Phytologist</i> , 2015, 205, 1537-1551.	7.3	370
31	Diamonds, native elements and metal alloys from chromitites of the Ray-Iz ophiolite of the Polar Urals. <i>Gondwana Research</i> , 2015, 27, 459-485.	6.0	151
32	Zircon oxygen isotopic constraints from plutonic rocks on the magmatic and crustal evolution of the northern Appalachians in southern New England, USA. <i>Canadian Journal of Earth Sciences</i> , 2014, 51, 485-499.	1.3	6
33	Unmasking xenolithic eclogites: Progressive metasomatism of a key Roberts Victor sample. <i>Chemical Geology</i> , 2014, 364, 56-65.	3.3	22
34	Visualization of Metabolic Properties of Bacterial Cells Using Nanoscale Secondary Ion Mass Spectrometry (NanoSIMS). <i>Methods in Molecular Biology</i> , 2014, 1096, 133-146.	0.9	3
35	High-resolution secondary ion mass spectrometry analysis of carbon dynamics in mycorrhizas formed by an obligately myco4heterotrophic orchid. <i>Plant, Cell and Environment</i> , 2014, 37, 1223-1230.	5.7	44
36	Insights into subduction zone sulfur recycling from isotopic analysis of eclogite-hosted sulfides. <i>Chemical Geology</i> , 2014, 365, 1-19.	3.3	73

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37	Large sulfur isotope fractionations associated with Neoproterozoic microbial sulfate reduction. <i>Science</i> , 2014, 346, 742-744.	12.6	83
38	Geochemistry and nano-structure of a putative ~3240 million-year-old black smoker biota, Sulphur Springs Group, Western Australia. <i>Precambrian Research</i> , 2014, 249, 1-12.	2.7	19
39	A combined chemical, isotopic and microstructural study of pyrite from roll-front uranium deposits, Lake Eyre Basin, South Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 440-465.	3.9	89
40	Sulfur isotope evolution in sulfide ores from Western Alps: Assessing the influence of subduction-related metamorphism. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3808-3829.	2.5	28
41	Nuclear safeguards applications using LG-SIMS with automated screening capabilities. <i>Surface and Interface Analysis</i> , 2013, 45, 561-565.	1.8	28
42	Interaction of weathering solutions with oxygen and U-Pb isotopic systems of radiation-damaged zircon from an Archean granite, Darling Range Batholith, Western Australia. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 511-523.	3.1	55
43	Origin of the Tongbai-Dabie-Sulu Neoproterozoic low- $\delta^{18}O$ igneous province, east-central China. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 641-662.	3.1	69
44	Not-so-suspect terrane: Constraints on the crustal evolution of the Rudall Province. <i>Precambrian Research</i> , 2013, 235, 131-149.	2.7	28
45	A simple mechanism for mid-crustal shear zones to record surface-derived fluid signatures. <i>Geology</i> , 2013, 41, 711-714.	4.4	21
46	Nanoscale analysis of pyritized microfossils reveals differential heterotrophic consumption in the ~1.9-Ga Gunflint chert. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8020-8024.	7.1	70
47	Constraints and deception in the isotopic record; the crustal evolution of the west Musgrave Province, central Australia. <i>Gondwana Research</i> , 2013, 23, 759-781.	6.0	96
48	Intracontinental Eocene-Oligocene Porphyry Cu Mineral Systems of Yunnan, Western Yangtze Craton, China: Compositional Characteristics, Sources, and Implications for Continental Collision Metallogeny. <i>Economic Geology</i> , 2013, 108, 1541-1576.	3.8	144
49	Nutrient cycling in early coral life stages: <i>Pocillopora damicornis</i> larvae provide their algal symbiont (<i>Symbiodinium</i>) with nitrogen acquired from bacterial associates. <i>Ecology and Evolution</i> , 2013, 3, 2393-2400.	1.9	94
50	Geochemical, Sr-Nd-Pb, and Zircon Hf-O Isotopic Compositions of Eocene-Oligocene Shoshonitic and Potassic Adakite-like Felsic Intrusions in Western Yunnan, SW China: Petrogenesis and Tectonic Implications. <i>Journal of Petrology</i> , 2013, 54, 1309-1348.	2.8	170
51	Pathways for Neoproterozoic pyrite formation constrained by mass-independent sulfur isotopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17638-17643.	7.1	125
52	O-Hf isotope constraints on the origin of zircon in high-pressure mafic blocks and associated matrix rocks from Tinos and Syros, Greece. <i>European Journal of Mineralogy</i> , 2012, 24, 277-287.	1.3	36
53	High-resolution geochemical record of fluid-rock interaction in a mid-crustal shear zone: a comparative study of major element and oxygen isotope transport in garnet. <i>Journal of Metamorphic Geology</i> , 2012, 30, 255-280.	3.4	39
54	Elemental Signatures for Microbial Forensics. , 2012, , 71-87.		0

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55	Improved particle location and isotopic screening measurements of sub-micron sized particles by Secondary Ion Mass Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 406-413.	3.0	42
56	Microfossils of sulphur-metabolizing cells in 3.4-billion-year-old rocks of Western Australia. <i>Nature Geoscience</i> , 2011, 4, 698-702.	12.9	387
57	Visualising gold inside tumour cells following treatment with an antitumour gold(i) complex. <i>Metallomics</i> , 2011, 3, 917.	2.4	61
58	Application of nanoscale secondary ion mass spectrometry to plant cell research. <i>Plant Signaling and Behavior</i> , 2010, 5, 760-762.	2.4	27
59	Composition changes around sulphide inclusions in stainless steels, and implications for the initiation of pitting corrosion. <i>Corrosion Science</i> , 2010, 52, 3702-3716.	6.6	158
60	In Situ Mapping of Nutrient Uptake in the Rhizosphere Using Nanoscale Secondary Ion Mass Spectrometry. <i>Plant Physiology</i> , 2009, 151, 1751-1757.	4.8	132
61	Microscopic studies of spherical particles for nuclear safeguards. <i>Applied Surface Science</i> , 2008, 255, 2561-2568.	6.1	17
62	Bayesian-Integrated Microbial Forensics. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3573-3582.	3.1	31
63	Pb quantification of CdZnTe microheterogeneities complimented by SEM, IR microscopy, EDX, and TOF-SIMS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 579, 138-140.	1.6	2
64	Nitrogen mineralization and assimilation at millimeter scales. <i>Soil Biology and Biochemistry</i> , 2007, 39, 823-826.	8.8	14
65	Secondary ionization mass spectrometric analysis of impurity element isotope ratios in nuclear reactor materials. <i>Applied Surface Science</i> , 2006, 252, 7041-7044.	6.1	16
66	Differentiation of Spores of <i>Bacillus subtilis</i> Grown in Different Media by Elemental Characterization Using Time-of-Flight Secondary Ion Mass Spectrometry. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6524-6530.	3.1	51
67	Modeling the Effects of Diffusion Limitations on Nitrogen-15 Isotope Dilution Experiments with Soil Aggregates. <i>Soil Science Society of America Journal</i> , 2003, 67, 677.	2.2	0
68	Exploration of Inorganic C and N Assimilation by Soil Microbes with Time-of-Flight Secondary Ion Mass Spectrometry. <i>Applied and Environmental Microbiology</i> , 2002, 68, 4067-4073.	3.1	67
69	Modeling the Effects of Diffusion Limitations on Nitrogen-15 Isotope Dilution Experiments with Soil Aggregates. <i>Soil Science Society of America Journal</i> , 2002, 66, 1868-1877.	2.2	16