Scott G Johnston

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5184700/publications.pdf

Version: 2024-02-01

89
papers

4,129
citations

101543
36
h-index

128289
60
g-index

90
all docs

90
docs citations

90
times ranked

2981
citing authors

#	Article	IF	Citations
1	Drought, megafires and flood - climate extreme impacts on catchment-scale river water quality on Australia's east coast. Water Research, 2022, 218, 118510.	11.3	10
2	Reductive transformation of birnessite and the mobility of co-associated antimony. Journal of Hazardous Materials, 2021, 404, 124227.	12.4	9
3	Bark-dwelling methanotrophic bacteria decrease methane emissions from trees. Nature Communications, 2021, 12, 2127.	12.8	51
4	Isotopic evidence for axial tree stem methane oxidation within subtropical lowland forests. New Phytologist, 2021, 230, 2200-2212.	7.3	27
5	Alkalinity Production Coupled to Pyrite Formation Represents an Unaccounted Blue Carbon Sink. Global Biogeochemical Cycles, 2021, 35, e2020GB006785.	4.9	16
6	Arsenic-Imposed Effects on Schwertmannite and Jarosite Formation in Acid Mine Drainage and Coupled Impacts on Arsenic Mobility. ACS Earth and Space Chemistry, 2021, 5, 1418-1435.	2.7	35
7	Antimonate Controls Manganese(II)-Induced Transformation of Birnessite at a Circumneutral pH. Environmental Science & Technology, 2021, 55, 9854-9863.	10.0	10
8	Long-range spatial variability in sediment associations and solid-phase speciation of antimony and arsenic in a mining-impacted river system. Applied Geochemistry, 2021, 135, 105112.	3.0	13
9	Speciation and mobility of antimony and arsenic in a highly contaminated freshwater system and the influence of extreme drought conditions. Environmental Chemistry, 2021, 18, 321.	1.5	2
10	Antimony and arsenic speciation, redox-cycling and contrasting mobility in a mining-impacted river system. Science of the Total Environment, 2020, 710, 136354.	8.0	83
11	Mangroves as a Source of Greenhouse Gases to the Atmosphere and Alkalinity and Dissolved Carbon to the Coastal Ocean: A Case Study From the Everglades National Park, Florida. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005812.	3.0	21
12	Tree stem methane emissions from subtropical lowland forest (Melaleuca quinquenervia) regulated by local and seasonal hydrology. Biogeochemistry, 2020, 151, 273-290.	3.5	29
13	Seasonal Temperature Oscillations Drive Contrasting Arsenic and Antimony Mobilization in a Miningâ€•Impacted River System. Water Resources Research, 2020, 56, e2020WR028196.	4.2	12
14	Antimony mobility in sulfidic systems: Coupling with sulfide-induced iron oxide transformations. Geochimica Et Cosmochimica Acta, 2020, 282, 276-296.	3.9	37
15	A Small Nimble In Situ Fine-Scale Flux Method for Measuring Tree Stem Greenhouse Gas Emissions and Processes (S.N.I.F.F). Ecosystems, 2020, 23, 1676-1689.	3.4	24
16	Reconstructing extreme climatic and geochemical conditions during the largest natural mangrove dieback on record. Biogeosciences, 2020, 17, 4707-4726.	3.3	14
17	Antimony speciation and mobility during Fe(II)-induced transformation of humic acid-antimony(V)-iron(III) coprecipitates. Environmental Pollution, 2019, 254, 113112.	7.5	38
18	A new pathway for hexavalent chromium formation in soil: Fire-induced alteration of iron oxides. Environmental Pollution, 2019, 247, 618-625.	7.5	24

#	ARTICLE	IF	CITATIONS
19	Chromium(VI) formation via heating of Cr(III)-Fe(III)-(oxy)hydroxides: A pathway for fire-induced soil pollution. Chemosphere, 2019, 222, 440-444.	8.2	21
20	Humic acid impacts antimony partitioning and speciation during iron(II)-induced ferrihydrite transformation. Science of the Total Environment, 2019, 683, 399-410.	8.0	50
21	Are methane emissions from mangrove stems a cryptic carbon loss pathway? Insights from a catastrophic forest mortality. New Phytologist, 2019, 224, 146-154.	7.3	66
22	Rhizosphere to the atmosphere: contrasting methane pathways, fluxes, and geochemical drivers across the terrestrialâ€“aquatic wetland boundary. Biogeosciences, 2019, 16, 1799-1815.	3.3	22
23	Fire Promotes Arsenic Mobilization and Rapid Arsenic(III) Formation in Soil via Thermal Alteration of Arsenic-Bearing Iron Oxides. Frontiers in Earth Science, 2019, 7, .	1.8	19
24	iAMES: An <u>i</u>nexpensive, <u>A</u>utomated <u>M</u>ethane <u>E</u>bullition <u>S</u>ensor. Environmental Science & Technology, 2019, 53, 6420-6426.	10.0	16
25	Significant Organic Carbon Accumulation in Two Coastal Acid Sulfate Soil Wetlands. Geophysical Research Letters, 2019, 46, 3245-3251.	4.0	13
26	Wetland methane emissions dominated by plantâ€mediated fluxes: Contrasting emissions pathways and seasons within a shallow freshwater subtropical wetland. Limnology and Oceanography, 2019, 64, 1895-1912.	3.1	52
27	Phosphate loading alters schwertmannite transformation rates and pathways during microbial reduction. Science of the Total Environment, 2019, 657, 770-780.	8.0	22
28	Antimony mobility in reducing environments: The effect of microbial iron(III)-reduction and associated secondary mineralization. Geochimica Et Cosmochimica Acta, 2019, 245, 278-289.	3.9	77
29	Contrasting effects of phosphate on the rapid transformation of schwertmannite to Fe(III) (oxy)hydroxides at near-neutral pH. Geoderma, 2019, 340, 115-123.	5.1	24
30	Rapid arsenic(V)-reduction by fire in schwertmannite-rich soil enhances arsenic mobilisation. Geochimica Et Cosmochimica Acta, 2018, 227, 1-18.	3.9	19
31	Iron and sulfur cycling in acid sulfate soil wetlands under dynamic redox conditions: A review. Chemosphere, 2018, 197, 803-816.	8.2	150
32	Antimony and arsenic partitioning during Fe2+-induced transformation of jarosite under acidic conditions. Chemosphere, 2018, 195, 515-523.	8.2	53
33	Diffusive Gradients in Thin Films Reveals Differences in Antimony and Arsenic Mobility in a Contaminated Wetland Sediment during an Oxic-Anoxic Transition. Environmental Science & Technology, 2018, 52, 1118-1127.	10.0	84
34	Divergent repartitioning of copper, antimony and phosphorus following thermal transformation of schwertmannite and ferrihydrite. Chemical Geology, 2018, 483, 530-543.	3.3	15
35	Synchrotron X-ray spectroscopy for investigating vanadium speciation in marine sediment: limitations and opportunities. Journal of Analytical Atomic Spectrometry, 2018, 33, 1689-1699.	3.0	18
36	Antimony and Arsenic Behavior during Fe(II)-Induced Transformation of Jarosite. Environmental Science & Technology, 2017, 51, 4259-4268.	10.0	97

#	ARTICLE	IF	CITATIONS
37	Effect of cyclic redox oscillations on water quality in freshwater acid sulfate soil wetlands. Science of the Total Environment, 2017, 581-582, 314-327.	8.0	31
38	Phosphate-Imposed Constraints on Schwertmannite Stability under Reducing Conditions. Environmental Science & Technology, 2017, 51, 9739-9746.	10.0	22
39	Acidity generation accompanying iron and sulfur transformations during drought simulation of freshwater re-flooded acid sulfate soils. Geoderma, 2017, 285, 117-131.	5.1	20
40	Synchrotron X-ray absorption spectroscopy reveals antimony sequestration by reduced sulfur in a freshwater wetland sediment. Environmental Chemistry, 2017, 14, 345.	1.5	31
41	Arsenic Mobilization Is Enhanced by Thermal Transformation of Schwertmannite. Environmental Science & Technology, 2016, 50, 8010-8019.	10.0	47
42	Legacy impacts of acid sulfate soil runoff on mangrove sediments: Reactive iron accumulation, altered sulfur cycling and trace metal enrichment. Chemical Geology, 2016, 427, 43-53.	3.3	24
43	Acidic drainage drives anomalous rare earth element signatures in intertidal mangrove sediments. Science of the Total Environment, 2016, 573, 831-840.	8.0	14
44	Arsenic solid-phase speciation in an alluvial aquifer system adjacent to the Himalayan forehills, Nepal. Chemical Geology, 2015, 419, 55-66.	3.3	17
45	Seawater inundation of coastal floodplain sediments: Short-term changes in surface water and sediment geochemistry. Chemical Geology, 2015, 398, 32-45.	3.3	12
46	Arsenic mobilization in an alluvial aquifer of the Terai region, Nepal. Journal of Hydrology: Regional Studies, 2015, 4, 59-79.	2.4	39
47	A revised method for determining existing acidity in re-flooded acid sulfate soils. Applied Geochemistry, 2015, 52, 16-22.	3.0	5
48	Landslide-induced iron mobilisation shapes benthic accumulation of nutrients, trace metals and REE fractionation in an oligotrophic alpine stream. Geochimica Et Cosmochimica Acta, 2015, 148, 1-22.	3.9	8
49	Digital soil mapping of a coastal acid sulfate soil landscape. Soil Research, 2014, 52, 327.	1.1	26
50	Arsenic Mobility during Flooding of Contaminated Soil: The Effect of Microbial Sulfate Reduction. Environmental Science & Technology, 2014, 48, 13660-13667.	10.0	173
51	Sulfur, iron and carbon cycling following hydrological restoration of acidic freshwater wetlands. Chemical Geology, 2014, 371, 9-26.	3.3	89
52	Enrichment and heterogeneity of trace elements at the redox-interface of Fe-rich intertidal sediments. Chemical Geology, 2014, 383, 1-12.	3.3	13
53	Coupling of arsenic mobility to sulfur transformations during microbial sulfate reduction in the presence and absence of humic acid. Chemical Geology, 2013, 343, 12-24.	3.3	127
54	Seawater-induced mobilization of trace metals from mackinawite-rich estuarine sediments. Water Research, 2013, 47, 821-832.	11.3	27

#	ARTICLE	IF	CITATIONS
55	Sulfate Availability Drives Divergent Evolution of Arsenic Speciation during Microbially Mediated Reductive Transformation of Schwertmannite. Environmental Science & Technology, 2013, 47, 2221-2229.	10.0	77
56	Arsenic mobilization and iron transformations during sulfidization of As(V)-bearing jarosite. Chemical Geology, 2012, 334, 9-24.	3.3	76
57	Quantifying alkalinity generating processes in a tidally remediating acidic wetland. Chemical Geology, 2012, 304-305, 106-116.	3.3	23
58	Impact of silica on the reductive transformation of schwertmannite and the mobilization of arsenic. Geochimica Et Cosmochimica Acta, 2012, 96, 134-153.	3.9	51
59	Iron and Arsenic Cycling in Intertidal Surface Sediments during Wetland Remediation. Environmental Science & Technology, 2011, 45, 2179-2185.	10.0	65
60	Iron geochemical zonation in a tidally inundated acid sulfate soil wetland. Chemical Geology, 2011, 280, 257-270.	3.3	96
61	Microbial sulfidogenesis in ferrihydrite-rich environments: Effects on iron mineralogy and arsenic mobility. Geochimica Et Cosmochimica Acta, 2011, 75, 3072-3087.	3.9	134
62	Sulfur biogeochemical cycling and novel Feâ€“S mineralization pathways in a tidally re-flooded wetland. Geochimica Et Cosmochimica Acta, 2011, 75, 3434-3451.	3.9	142
63	Tidally driven water column hydro-geochemistry in a remediating acidic wetland. Journal of Hydrology, 2011, 409, 128-139.	5.4	17
64	Anthropogenic forcing of estuarine hypoxic events in sub-tropical catchments: Landscape drivers and biogeochemical processes. Science of the Total Environment, 2011, 409, 5368-5375.	8.0	16
65	Partitioning of metals in a degraded acid sulfate soil landscape: Influence of tidal re-inundation. Chemosphere, 2011, 85, 1220-1226.	8.2	15
66	Effects of hyper-enriched reactive Fe on sulfidisation in a tidally inundated acid sulfate soil wetland. Biogeochemistry, 2011, 103, 263-279.	3.5	43
67	Reactive trace element enrichment in a highly modified, tidally inundated acid sulfate soil wetland: East Trinity, Australia. Marine Pollution Bulletin, 2010, 60, 620-626.	5.0	31
68	Spatial and temporal changes in estuarine water quality during a post-flood hypoxic event. Estuarine, Coastal and Shelf Science, 2010, 87, 73-82.	2.1	39
69	Arsenic Effects and Behavior in Association with the Fe(II)-Catalyzed Transformation of Schwertmannite. Environmental Science & Technology, 2010, 44, 2016-2021.	10.0	92
70	Arsenic Mobilization in a Seawater Inundated Acid Sulfate Soil. Environmental Science & Technology, 2010, 44, 1968-1973.	10.0	72
71	Seawater causes rapid trace metal mobilisation in coastal lowland acid sulfate soils: Implications of sea level rise for water quality. Geoderma, 2010, 160, 252-263.	5.1	34
72	Abundance and fractionation of Al, Fe and trace metals following tidal inundation of a tropical acid sulfate soil. Applied Geochemistry, 2010, 25, 323-335.	3.0	47

#	ARTICLE	IF	CITATIONS
73	Pore Water Sampling in Acid Sulfate Soils: A New Peeper Method. Journal of Environmental Quality, 2009, 38, 2474-2477.	2.0	18
74	Changes in water quality following tidal inundation of coastal lowland acid sulfate soil landscapes. Estuarine, Coastal and Shelf Science, 2009, 81, 257-266.	2.1	50
75	Iron-Monosulfide Oxidation in Natural Sediments: Resolving Microbially Mediated S Transformations Using XANES, Electron Microscopy, and Selective Extractions. Environmental Science & Technology, 2009, 43, 3128-3134.	10.0	111
76	Contemporary pedogenesis of severely degraded tropical acid sulfate soils after introduction of regular tidal inundation. Geoderma, 2009, 149, 335-346.	5.1	54
77	Saturated hydraulic conductivity of sulfuric horizons in coastal floodplain acid sulfate soils: Variability and implications. Geoderma, 2009, 151, 387-394.	5.1	37
78	Iron(III) accumulations in inland saline waterways, Hunter Valley, Australia: Mineralogy, micromorphology and pore-water geochemistry. Applied Geochemistry, 2009, 24, 1825-1834.	3.0	11
79	Sorption of Arsenic(V) and Arsenic(III) to Schwertmannite. Environmental Science & Technology, 2009, 43, 9202-9207.	10.0	221
80	A simple and inexpensive chromium-reducible sulfur method for acid-sulfate soils. Applied Geochemistry, 2008, 23, 2759-2766.	3.0	152
81	Mobility of arsenic and selected metals during re-flooding of iron- and organic-rich acid-sulfate soil. Chemical Geology, 2008, 253, 64-73.	3.3	157
82	The impact of controlled tidal exchange on drainage water quality in acid sulphate soil backswamps. Agricultural Water Management, 2005, 73, 87-111.	5.6	37
83	Opening floodgates in coastal floodplain drains: effects on tidal forcing and lateral transport of solutes in adjacent groundwater. Agricultural Water Management, 2005, 74, 23-46.	5.6	16
84	Changes in surface water quality after inundation of acid sulfate soils of different vegetation cover. Soil Research, 2005, 43, 1.	1.1	30
85	The acid flux dynamics of two artificial drains in acid sulfate soil backswamps on the Clarence River floodplain, Australia. Soil Research, 2004, 42, 623.	1.1	50
86	Redistribution of monosulfidic black oozes by floodwaters in a coastal acid sulfate soil floodplain. Soil Research, 2004, 42, 603.	1.1	20
87	The effects of a weir on reducing acid flux from a drained coastal acid sulphate soil backswamp. Agricultural Water Management, 2004, 69, 43-67.	5.6	16
88	Alteration of groundwater and sediment geochemistry in a sulfidic backswamp due to Melaleuca quinquenervia encroachment. Soil Research, 2003, 41, 1343.	1.1	38
89	Artificial drainage of floodwaters from sulfidic backswamps: effects on deoxygenation in an Australian estuary. Marine and Freshwater Research, 2003, 54, 781.	1.3	43