

# Luke M Mosley

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

90  
papers

1,518  
citations

21  
h-index

36  
g-index

102  
ext. papers

1,833  
ext. citations

5.3  
avg. IF

5.43  
L-index

#	Paper	IF	Citations
90	Drought impacts on the water quality of freshwater systems; review and integration. <i>Earth-Science Reviews</i> , <b>2015</b> , 140, 203-214	10.2	222
89	Forces between colloid particles in natural waters. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 3303-8	10.3	117
88	The Impact of Extreme Low Flows on the Water Quality of the Lower Murray River and Lakes (South Australia). <i>Water Resources Management</i> , <b>2012</b> , 26, 3923-3946	3.7	81
87	Investigation of interparticle forces in natural waters: effects of adsorbed humic acids on iron oxide and alumina surface properties. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 4791-6	10.3	65
86	Spectrophotometric pH measurement in estuaries using thymol blue and m-cresol purple. <i>Marine Chemistry</i> , <b>2004</b> , 91, 175-186	3.7	58
85	Changes in acidity and metal geochemistry in soils, groundwater, drain and river water in the Lower Murray River after a severe drought. <i>Science of the Total Environment</i> , <b>2014</b> , 485-486, 281-291	10.2	51
84	Metal speciation and potential bioavailability changes during discharge and neutralisation of acidic drainage water. <i>Chemosphere</i> , <b>2014</b> , 103, 172-80	8.4	38
83	Partitioning of metals (Fe, Pb, Cu, Zn) in urban run-off from the Kaikorai Valley, Dunedin, New Zealand. <i>New Zealand Journal of Marine and Freshwater Research</i> , <b>2001</b> , 35, 615-624	1.3	37
82	Acidification of lake water due to drought. <i>Journal of Hydrology</i> , <b>2014</b> , 511, 484-493	6	36
81	Climate-driven mobilisation of acid and metals from acid sulfate soils. <i>Marine and Freshwater Research</i> , <b>2010</b> , 61, 129	2.2	36
80	Acidification of floodplains due to river level decline during drought. <i>Journal of Contaminant Hydrology</i> , <b>2014</b> , 161, 10-23	3.9	32
79	Addition of organic matter influences pH changes in reduced and oxidised acid sulfate soils. <i>Geoderma</i> , <b>2016</b> , 262, 125-132	6.7	30
78	Schwertmannite formation and properties in acidic drain environments following exposure and oxidation of acid sulfate soils in irrigation areas during extreme drought. <i>Geoderma</i> , <b>2017</b> , 308, 235-251	6.7	30
77	Monitoring and assessment of surface water acidification following rewetting of oxidised acid sulfate soils. <i>Environmental Monitoring and Assessment</i> , <b>2014</b> , 186, 1-18	3.1	29
76	Sulfate reduction in sulfuric material after re-flooding: Effectiveness of organic carbon addition and pH increase depends on soil properties. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 298, 138-45	12.8	27
75	Nutrient levels in sea and river water along the Coral Coast of Viti Levu, Fiji. <i>South Pacific Journal of Natural and Applied Sciences</i> , <b>2003</b> , 21, 35		27
74	Global mapping of freshwater nutrient enrichment and periphyton growth potential. <i>Scientific Reports</i> , <b>2020</b> , 10, 3568	4.9	25

73	Amount of organic matter required to induce sulfate reduction in sulfuric material after re-flooding is affected by soil nitrate concentration. <i>Journal of Environmental Management</i> , <b>2015</b> , 151, 437-42	7.9	24
72	Predictive modelling of pH and dissolved metal concentrations and speciation following mixing of acid drainage with river water. <i>Applied Geochemistry</i> , <b>2015</b> , 59, 1-10	3.5	23
71	The geochemistry during management of lake acidification caused by the rewetting of sulfuric (pH). <i>Applied Geochemistry</i> , <b>2014</b> , 41, 49-61	3.5	23
70	From Mountain Ranges to Sweeping Plains, in Droughts and Flooding Rains; River Murray Water Quality over the Last Four Decades. <i>Water Resources Management</i> , <b>2019</b> , 33, 1087-1101	3.7	23
69	Calcium and strontium isotope systematics in the lagoon-estuarine environments of South Australia: Implications for water source mixing, carbonate fluxes and fish migration. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 239, 90-108	5.5	21
68	Acid sulfate soil evolution models and pedogenic pathways during drought and reflooding cycles in irrigated areas and adjacent natural wetlands. <i>Geoderma</i> , <b>2017</b> , 308, 270-290	6.7	21
67	Prolonged recovery of acid sulfate soils with sulfuric materials following severe drought: causes and implications. <i>Geoderma</i> , <b>2017</b> , 308, 312-320	6.7	20
66	The capacity of biochar made from common reeds to neutralise pH and remove dissolved metals in acid drainage. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 15113-22	5.1	20
65	Modelling of pH and inorganic carbon speciation in estuaries using the composition of the river and seawater end members. <i>Environmental Modelling and Software</i> , <b>2010</b> , 25, 1658-1663	5.2	20
64	Trace metal levels in drinking water on Viti Levu, Fiji Islands. <i>South Pacific Journal of Natural and Applied Sciences</i> , <b>2003</b> , 21, 31		19
63	Effects of a tropical cyclone on the drinking-water quality of a remote Pacific island. <i>Disasters</i> , <b>2004</b> , 28, 405-17	2.8	19
62	Options for managing hypoxic blackwater in river systems: case studies and framework. <i>Environmental Management</i> , <b>2013</b> , 52, 837-50	3.1	18
61	Type of organic carbon amendment influences pH changes in acid sulfate soils in flooded and dry conditions. <i>Journal of Soils and Sediments</i> , <b>2016</b> , 16, 518-526	3.4	16
60	Comparative contributions of solution geochemistry, microbial metabolism and aquatic photosynthesis to the development of high pH in ephemeral wetlands in South East Australia. <i>Science of the Total Environment</i> , <b>2016</b> , 542, 334-43	10.2	15
59	A three-dimensional hydro-geochemical model to assess lake acidification risk. <i>Environmental Modelling and Software</i> , <b>2014</b> , 61, 433-457	5.2	15
58	Pollutant Loads Returned to the Lower Murray River from Flood-Irrigated Agriculture. <i>Water, Air, and Soil Pollution</i> , <b>2010</b> , 211, 475-487	2.6	15
57	Particle aggregation, pH changes and metal behaviour during estuarine mixing: review and integration. <i>Marine and Freshwater Research</i> , <b>2020</b> , 71, 300	2.2	13
56	Near shore groundwater acidification during and after a hydrological drought in the Lower Lakes, South Australia. <i>Journal of Contaminant Hydrology</i> , <b>2016</b> , 189, 44-57	3.9	12

55	Alteration of organic matter during remediation of acid sulfate soils. <i>Geoderma</i> , <b>2018</b> , 332, 121-134	6.7	11
54	Linking organic matter composition in acid sulfate soils to pH recovery after re-submerging. <i>Geoderma</i> , <b>2017</b> , 308, 350-362	6.7	11
53	Development of a Spectrophotometric Method for Determining pH of Soil Extracts and Comparison with Glass Electrode Measurements. <i>Soil Science Society of America Journal</i> , <b>2017</b> , 81, 1350-1358	7.5	11
52	Drought effects on wet soils in inland wetlands and peatlands. <i>Earth-Science Reviews</i> , <b>2020</b> , 210, 103387	10.2	11
51	Organic matter addition can prevent acidification during oxidation of sandy hypersulfidic and hyposulfidic material: Effect of application form, rate and C/N ratio. <i>Geoderma</i> , <b>2016</b> , 276, 26-32	6.7	10
50	Consumption and alteration of different organic matter sources during remediation of a sandy sulfuric soil. <i>Geoderma</i> , <b>2019</b> , 347, 220-232	6.7	9
49	Composition and dissolution kinetics of jarosite-rich segregations extracted from an acid sulfate soil with sulfuric material. <i>Chemical Geology</i> , <b>2020</b> , 543, 119606	4.2	9
48	Reductions in water use following rehabilitation of a flood-irrigated area on the Murray River in South Australia. <i>Agricultural Water Management</i> , <b>2009</b> , 96, 1679-1682	5.9	8
47	Addition of organic material to sulfuric soil can reduce leaching of protons, iron and aluminium. <i>Geoderma</i> , <b>2016</b> , 271, 63-70	6.7	8
46	Does the high potassium content in recycled winery wastewater used for irrigation pose risks to soil structural stability?. <i>Agricultural Water Management</i> , <b>2021</b> , 243, 106422	5.9	8
45	Fate and dynamics of metal precipitates arising from acid drainage discharges to a river system. <i>Chemosphere</i> , <b>2018</b> , 212, 811-820	8.4	8
44	Have droughts and increased water extraction from the Murray River (Australia) reduced coastal ocean productivity?. <i>Marine and Freshwater Research</i> , <b>2018</b> , 69, 343	2.2	7
43	Photochemical consequences of prolonged hydrological drought: A model assessment of the Lower Lakes of the Murray-Darling Basin (Southern Australia). <i>Chemosphere</i> , <b>2019</b> , 236, 124356	8.4	7
42	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. <i>Critical Reviews in Environmental Science and Technology</i> , 1-17	11.1	7
41	Assessment of the Binding of Protons, Al and Fe to Biochar at Different pH Values and Soluble Metal Concentrations. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 55	3	7
40	The application of a spectrophotometric method to determine pH in acidic (pH. <i>Talanta</i> , <b>2018</b> , 186, 421-426	6.2	6
39	Phosphorus speciation and dynamics in river sediments, floodplain soils and leaf litter from the Lower Murray River region. <i>Marine and Freshwater Research</i> , <b>2019</b> , 70, 1522	2.2	6
38	Phosphorus pools in sulfuric acid sulfate soils: influence of water content, pH increase and P addition. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 1446-1453	3.4	6

37	Field trial and modelling of different strategies for remediation of soil salinity and sodicity in the Lower Murray irrigation areas. <i>Soil Research</i> , <b>2017</b> , 55, 670	1.8	5
36	Nitrogen and phosphorus removal from wastewater by sand with wheat straw. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 11212-11223	5.1	5
35	Organic Materials Differ in Ability to Remove Protons, Iron and Aluminium from Acid Sulfate Soil Drainage Water. <i>Water, Air, and Soil Pollution</i> , <b>2015</b> , 226, 1	2.6	5
34	Threshold for labile phosphate in a sandy acid sulfate soil. <i>Geoderma</i> , <b>2020</b> , 371, 114359	6.7	5
33	Hydrogen peroxide concentrations in relation to optical properties in a fiord (Doubtful Sound, New Zealand). <i>New Zealand Journal of Marine and Freshwater Research</i> , <b>2004</b> , 38, 729-741	1.3	5
32	Holocene freshwater history of the Lower River Murray and its terminal lakes, Alexandrina and Albert, South Australia, and its relevance to contemporary environmental management. <i>Australian Journal of Earth Sciences</i> , 1-25	1.4	4
31	Transformation of jarosite during simulated remediation of a sandy sulfuric soil. <i>Science of the Total Environment</i> , <b>2021</b> , 773, 145546	10.2	4
30	Phosphorus pools in acid sulfate soil are influenced by soil water content and form in which P is added. <i>Geoderma</i> , <b>2021</b> , 381, 114692	6.7	4
29	Impact of salinity and carbonate saturation on stable Sr isotopes ( $88/86\text{Sr}$ ) in a lagoon-estuarine system. <i>Geochimica Et Cosmochimica Acta</i> , <b>2021</b> , 293, 461-476	5.5	4
28	Global database of diffuse riverine nitrogen and phosphorus loads and yields. <i>Geoscience Data Journal</i> , <b>2020</b> ,	2.5	3
27	Assisted natural recovery of hypersaline sediments: salinity thresholds for the establishment of a community of bioturbating organisms. <i>Environmental Sciences: Processes and Impacts</i> , <b>2018</b> , 20, 1244-1253	4.3	3
26	A large mid-Holocene estuary was not present in the lower River Murray, Australia. <i>Scientific Reports</i> , <b>2021</b> , 11, 12082	4.9	3
25	Spectrophotometric measurement of the pH of soil extracts using a multiple indicator dye mixture. <i>European Journal of Soil Science</i> , <b>2019</b> , 70, 411-420	3.4	3
24	Arsenic sequestration in gold mine wastes under changing pH and experimental rewetting cycles. <i>Applied Geochemistry</i> , <b>2021</b> , 124, 104789	3.5	3
23	Exploring passivation-based treatments for jarosite from an acid sulfate soil. <i>Chemical Geology</i> , <b>2021</b> , 561, 120034	4.2	3
22	Application of visible near-infrared absorbance spectroscopy for the determination of Soil pH and liming requirements for broad-acre agriculture. <i>Precision Agriculture</i> , 1	5.6	3
21	Porosity and organic matter distribution in jarositic phyto tubules of sulfuric soils assessed by combined $\mu\text{CT}$ and NanoSIMS analysis. <i>Geoderma</i> , <b>2021</b> , 399, 115124	6.7	3
20	Sustained high CO <sub>2</sub> concentrations and fluxes from Australia's largest river system. <i>Marine and Freshwater Research</i> , <b>2022</b> ,	2.2	2

19	An integrated model to predict and prevent hypoxia in floodplain-river systems. <i>Journal of Environmental Management</i> , <b>2021</b> , 286, 112213	7.9	2
18	Organic materials retain high proportion of protons, iron and aluminium from acid sulphate soil drainage water with little subsequent release. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 23582-23592	5.1	2
17	Constraining the carbonate system in soils via testing the internal consistency of pH, pCO and alkalinity measurements. <i>Geochemical Transactions</i> , <b>2020</b> , 21, 4	3	2
16	A simple and rapid ICP-MS/MS determination of sulfur isotope ratios (S/S) in complex natural waters: A new tool for tracing seawater intrusion in coastal systems. <i>Talanta</i> , <b>2021</b> , 235, 122708	6.2	2
15	Addition of clayey soils with high net negative acidity to sulfuric sandy soil can minimise pH changes during wet and dry periods. <i>Geoderma</i> , <b>2016</b> , 269, 153-159	6.7	1
14	Loss of benthic macrofauna functional traits correlates with changes in sediment biogeochemistry along an extreme salinity gradient in the Coorong lagoon, Australia. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 174, 113202	6.7	1
13	Effect of Short-term Irrigation of Wastewater on Wheat Growth and Nitrogen and Phosphorus in Soil. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2020</b> , 20, 1589-1595	3.2	1
12	Addition of wheat straw to acid sulfate soils with different clay contents reduces acidification in two consecutive submerged-moist cycles. <i>Geoderma</i> , <b>2021</b> , 385, 114892	6.7	1
11	Phosphorus Pools in Acid Sulfate Soil Are Influenced by pH, Water Content, and Addition of Organic Matter. <i>Journal of Soil Science and Plant Nutrition</i> , <b>2021</b> , 21, 1066-1075	3.2	1
10	Long-term water quality response to increased hydraulic loadings in a field-scale free water surface constructed wetland treating domestic effluent.. <i>Journal of Environmental Management</i> , <b>2022</b> , 311, 114858	7.9	1
9	The terminal lakes of the Murray River, Australia, were predominantly fresh before large-scale upstream water abstraction: Evidence from sedimentary diatoms and hydrodynamical modelling.. <i>Science of the Total Environment</i> , <b>2022</b> , 155225	10.2	1
8	Detection of agriculturally relevant lime concentrations in soil using mid-infrared spectroscopy. <i>Geoderma</i> , <b>2022</b> , 409, 115639	6.7	0
7	Short-term seawater inundation induces metal mobilisation in freshwater and acid sulfate soil environments.. <i>Chemosphere</i> , <b>2022</b> , 299, 134383	8.4	0
6	Rapid remediation of sandy sulfuric subsoils using straw-derived dissolved organic matter. <i>Geoderma</i> , <b>2022</b> , 420, 115875	6.7	0
5	Restoration of benthic macrofauna promotes biogeochemical remediation of hostile sediments; An in situ transplantation experiment in a eutrophic estuarine-hypersaline lagoon system.. <i>Science of the Total Environment</i> , <b>2022</b> , 155201	10.2	0
4	Phosphorus speciation and release from different plant litters on a River Murray (Australia) floodplain. <i>Plant and Soil</i> , 1	4.2	
3	Extreme biogeochemical effects following simulation of recurrent drought in acid sulfate soils. <i>Applied Geochemistry</i> , <b>2022</b> , 136, 105146	3.5	
2	Wheat straw decomposition stage has little effect on the removal of inorganic N and P from wastewater leached through sand-straw mixes. <i>Environmental Technology (United Kingdom)</i> , <b>2020</b> , 41, 3483-3492	2.6	

- 1 Assessing soil corrosivity along feral-proof fencing in the Australian Arid Zone and the development of a new soil corrosivity index. *Geoderma Regional*, **2022**, 29, e00501 2.7