

# Robert Jg Mortimer

## List of Publications by Year in descending order

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76  
papers

3,214  
citations

126708

33  
h-index

155451

55  
g-index

76  
all docs

76  
docs citations

76  
times ranked

3865  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric input of nitrogen and phosphorus to the Southeast Mediterranean: Sources, fluxes, and possible impact. <i>Limnology and Oceanography</i> , 1999, 44, 1683-1692.	1.6	209
2	Enhanced Phosphorus Locking by Novel Lanthanum/Aluminum Hydroxide Composite: Implications for Eutrophication Control. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3418-3425.	4.6	200
3	Localised remobilization of metals in a marine sediment. <i>Science of the Total Environment</i> , 2002, 296, 175-187.	3.9	129
4	Microbial influence on the oxygen isotopic composition of diagenetic siderite. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1705-1711.	1.6	116
5	The Effect of Macrofauna on Porewater Profiles and Nutrient Fluxes in the Intertidal Zone of the Humber Estuary. <i>Estuarine, Coastal and Shelf Science</i> , 1999, 48, 683-699.	0.9	116
6	Behavior of Aluminum, Arsenic, and Vanadium during the Neutralization of Red Mud Leachate by HCl, Gypsum, or Seawater. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6527-6535.	4.6	115
7	Effects of Progressive Anoxia on the Solubility of Technetium in Sediments. <i>Environmental Science &amp; Technology</i> , 2005, 39, 4109-4116.	4.6	100
8	Impact of Suspended Inorganic Particles on Phosphorus Cycling in the Yellow River (China). <i>Environmental Science &amp; Technology</i> , 2013, 47, 9685-9692.	4.6	99
9	Reoxidation Behavior of Technetium, Iron, and Sulfur in Estuarine Sediments. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3529-3535.	4.6	95
10	Predatory Functional Response and Prey Choice Identify Predation Differences between Native/Invasive and Parasitised/Unparasitised Crayfish. <i>PLoS ONE</i> , 2012, 7, e32229.	1.1	94
11	Effect of Ocean Acidification on Organic and Inorganic Speciation of Trace Metals. <i>Environmental Science &amp; Technology</i> , 2016, 50, 1906-1913.	4.6	92
12	A combined application of different engineering and biological techniques to remediate a heavily polluted river. <i>Ecological Engineering</i> , 2013, 57, 1-7.	1.6	90
13	Effect of bacteria on the elemental composition of early diagenetic siderite: implications for palaeoenvironmental interpretations. <i>Sedimentology</i> , 1997, 44, 759-765.	1.6	74
14	Stream-bed phosphorus in paired catchments with different agricultural land use intensity. <i>Agriculture, Ecosystems and Environment</i> , 2009, 134, 53-66.	2.5	69
15	Sediment-Water Exchange of Nutrients in the Intertidal Zone of the Humber Estuary, UK. <i>Marine Pollution Bulletin</i> , 1999, 37, 261-279.	2.3	68
16	Understanding the nature of atmospheric acid processing of mineral dusts in supplying bioavailable phosphorus to the oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14639-14644.	3.3	68
17	Internal loading of phosphorus in a sedimentation pond of a treatment wetland: Effect of a phytoplankton crash. <i>Science of the Total Environment</i> , 2011, 409, 2222-2232.	3.9	67
18	Nanobubble Technology in Environmental Engineering: Revolutionization Potential and Challenges. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7175-7176.	4.6	67

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19	Impact of Point-Source Pollution on Phosphorus and Nitrogen Cycling in Stream-Bed Sediments. <i>Environmental Science &amp; Technology</i> , 2010, 44, 908-914.	4.6	65
20	Measurement of soluble reactive phosphorus concentration profiles and fluxes in river-bed sediments using DET gel probes. <i>Journal of Hydrology</i> , 2008, 350, 261-273.	2.3	59
21	Phosphorus dynamics and productivity in a sewage-impacted lowland chalk stream. <i>Journal of Hydrology</i> , 2008, 351, 87-97.	2.3	55
22	Anoxic nitrification: Evidence from Humber Estuary sediments (UK). <i>Chemical Geology</i> , 2008, 250, 29-39.	1.4	53
23	Gypsum addition to soils contaminated by red mud: implications for aluminium, arsenic, molybdenum and vanadium solubility. <i>Environmental Geochemistry and Health</i> , 2013, 35, 643-656.	1.8	51
24	Chromate reduction in Fe(II)-containing soil affected by hyperalkaline leachate from chromite ore processing residue. <i>Journal of Hazardous Materials</i> , 2011, 194, 15-23.	6.5	50
25	Mobilisation of arsenic from bauxite residue (red mud) affected soils: Effect of pH and redox conditions. <i>Applied Geochemistry</i> , 2014, 51, 268-277.	1.4	50
26	Mechanism of Vanadium Leaching during Surface Weathering of Basic Oxygen Furnace Steel Slag Blocks: A Microfocus X-ray Absorption Spectroscopy and Electron Microscopy Study. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7823-7830.	4.6	50
27	Use of gel probes for the determination of high resolution solute distributions in marine and estuarine pore waters. <i>Marine Chemistry</i> , 1998, 63, 119-129.	0.9	49
28	Sulphur cycling in organic-rich marine sediments from a Scottish fjord. <i>Sedimentology</i> , 2009, 56, 1159-1173.	1.6	47
29	Metal Speciation (Cu, Zn, Pb, Cd) and Organic Matter in Oxic to Suboxic Salt Marsh Sediments, Severn Estuary, Southwest Britain. <i>Marine Pollution Bulletin</i> , 2000, 40, 377-386.	2.3	44
30	Leaching of copper and nickel in soil-water systems contaminated by bauxite residue (red mud) from Ajka, Hungary: the importance of soil organic matter. <i>Environmental Science and Pollution Research</i> , 2015, 22, 10800-10810.	2.7	44
31	Dynamic characteristics of sulfur, iron and phosphorus in coastal polluted sediments, north China. <i>Environmental Pollution</i> , 2016, 219, 588-595.	3.7	43
32	Experimental evidence for rapid biotic and abiotic reduction of Fe(III) at low temperatures in salt marsh sediments: a possible mechanism for formation of modern sedimentary siderite concretions. <i>Sedimentology</i> , 2011, 58, 1514-1529.	1.6	37
33	Stimulation of Microbially Mediated Chromate Reduction in Alkaline Soil-Water Systems. <i>Geomicrobiology Journal</i> , 2007, 24, 655-669.	1.0	35
34	Feeding behaviour, predatory functional responses and trophic interactions of the invasive Chinese mitten crab ( <i>Eriocheir sinensis</i> ) and signal crayfish ( <i>Pacifastacus leniusculus</i> ). <i>Freshwater Biology</i> , 2016, 61, 426-443.	1.2	33
35	Hydrothermal carbonization of microalgae for phosphorus recycling from wastewater to crop-soil systems as slow-release fertilizers. <i>Journal of Cleaner Production</i> , 2021, 283, 124627.	4.6	33
36	Concentrations, sulfur isotopic compositions and origin of organosulfur compounds in pore waters of a highly polluted raised peatland. <i>Organic Geochemistry</i> , 2010, 41, 55-62.	0.9	30

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37	Bacterially mediated removal of phosphorus and cycling of nitrate and sulfate in the waste stream of a zero-discharge recirculating mariculture system. <i>Water Research</i> , 2014, 56, 109-121.	5.3	27
38	Biogeochemical Reduction Processes in a Hyper-Alkaline Leachate Affected Soil Profile. <i>Geomicrobiology Journal</i> , 2012, 29, 769-779.	1.0	26
39	Determination of Nitrate in Small Water Samples (100 $\mu$ L) by the Cadmium-Copper Reduction Method: A Manual Technique with Application to the Interstitial Waters of Marine Sediments. <i>International Journal of Environmental Analytical Chemistry</i> , 2002, 82, 369-376.	1.8	23
40	Geochemistry of reduced inorganic sulfur, reactive iron, and organic carbon in fluvial and marine surface sediment in the Laizhou Bay region, China. <i>Environmental Earth Sciences</i> , 2015, 74, 1151-1160.	1.3	23
41	Insights into redox cycling of sulfur and iron in peatlands using high-resolution diffusive equilibrium thin film (DET) gel probe sampling. <i>Chemical Geology</i> , 2007, 244, 409-420.	1.4	22
42	Comment: Closing phosphorus cycle from natural waters: re-capturing phosphorus through an integrated water-energy-food strategy. <i>Journal of Environmental Sciences</i> , 2018, 65, 375-376.	3.2	22
43	The Effect of Atmospheric Acid Processing on the Global Deposition of Bioavailable Phosphorus From Dust. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1367-1385.	1.9	21
44	Behaviour and fate of vanadium during the aerobic neutralisation of hyperalkaline slag leachate. <i>Science of the Total Environment</i> , 2018, 643, 1191-1199.	3.9	21
45	Mycoremediation of petroleum contaminated soils: progress, prospects and perspectives. <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 1446-1458.	1.7	20
46	The biogeochemistry of a manganese-rich Scottish sea loch: Implications for the study of anoxic nitrification. <i>Continental Shelf Research</i> , 2007, 27, 1501-1509.	0.9	19
47	Morphological diversity and phenotypic plasticity in the threatened British white-clawed crayfish ( <i>Austropotamobius pallipes</i> ). <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2012, 22, 220-231.	0.9	19
48	Enhancing microbial iron reduction in hyperalkaline, chromium contaminated sediments by pH amendment. <i>Applied Geochemistry</i> , 2013, 28, 135-144.	1.4	18
49	Reoxidation of estuarine sediments during simulated resuspension events: Effects on nutrient and trace metal mobilisation. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 207, 40-55.	0.9	17
50	Investigating the potential of sunflower species, fermented palm wine and <i>Pleurotus ostreatus</i> for treatment of petroleum-contaminated soil. <i>Chemosphere</i> , 2020, 240, 124881.	4.2	17
51	Use of a high-resolution pore-water gel profiler to measure groundwater fluxes at an underwater saline seepage site in Lake Kinneret, Israel. <i>Limnology and Oceanography</i> , 1999, 44, 1802-1809.	1.6	16
52	Effect of Microbially Induced Anoxia on Cr(VI) Mobility at a Site Contaminated with Hyperalkaline Residue from Chromite Ore Processing. <i>Geomicrobiology Journal</i> , 2011, 28, 68-82.	1.0	16
53	Utilization of coal fly ash waste for effective recapture of phosphorus from waters. <i>Chemosphere</i> , 2022, 287, 132431.	4.2	16
54	Branchiobdellidan infestation on endangered white-clawed crayfish ( <i>Austropotamobius</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	0.7	15

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55	Efficient arsenic removal by a bifunctional heterogeneous catalyst through simultaneous hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) catalytic oxidation and adsorption. <i>Journal of Cleaner Production</i> , 2021, 325, 129329.	4.6	15
56	Influence of salinity on COD measurements in coastal water management. <i>Desalination and Water Treatment</i> , 2016, 57, 18338-18345.	1.0	14
57	Diversity patterns of benthic bacterial communities along the salinity continuum of the Humber estuary (UK). <i>Aquatic Microbial Ecology</i> , 2018, 81, 277-291.	0.9	14
58	Leaching behaviour of co-disposed steel making wastes: Effects of aeration on leachate chemistry and vanadium mobilisation. <i>Waste Management</i> , 2018, 81, 1-10.	3.7	13
59	The biogeochemical behaviour of U(VI) in the simulated near-field of a low-level radioactive waste repository. <i>Applied Geochemistry</i> , 2006, 21, 1539-1550.	1.4	12
60	Studies on synthesis and characteristics of zeolite prepared from Indian fly ash. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 37-50.	1.2	11
61	Reactivity of pyrite and organic carbon as electron donors for biogeochemical processes in the fractured Jurassic Lincolnshire limestone aquifer, UK. <i>Chemical Geology</i> , 2012, 332-333, 26-31.	1.4	9
62	Effect of episodic rainfall on aqueous metal mobility from historical mine sites. <i>Environmental Chemistry</i> , 2017, 14, 469.	0.7	9
63	Chapter 3 The role of microorganisms during sediment diagenesis: Implications for radionuclide mobility. <i>Radioactivity in the Environment</i> , 2002, , 61-100.	0.2	8
64	Cryogenic circulation for indoor air pollution control. <i>Science of the Total Environment</i> , 2019, 651, 1451-1456.	3.9	8
65	Reduced inorganic sulfur in surface sediment and its impact on benthic environments in offshore areas of NE China. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 1689-1697.	1.7	7
66	Habitat use by the endangered white-clawed crayfish <i>Austropotamobius</i> species complex: a systematic review. <i>Knowledge and Management of Aquatic Ecosystems</i> , 2017, , 4.	0.5	7
67	Evaluating water quality and ecotoxicology assessment techniques using data from a lead and zinc effected upland limestone catchment. <i>Water Research</i> , 2018, 128, 49-60.	5.3	7
68	Effect of pH on growth and survival in the freshwater crayfish <i>Austropotamobius pallipes</i> . <i>Freshwater Crayfish</i> , 2013, 19, 53-62.	0.5	6
69	Horizontal transmission of <i>Thelohania contejeani</i> in the endangered white-clawed ( <i>Austropotamobius pallipes</i> ) and the invasive signal crayfish ( <i>Pacifastacus leniusculus</i> ). <i>Parasitology</i> , 2012, 139, 1471-1477.	0.7	5
70	Understanding the mobilisation of metal pollution associated with historical mining in a carboniferous upland catchment. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 1061-1074.	1.7	5
71	Identification and Quantification of Nitrogen in a Reservoir, Jiaodong Peninsula, China. <i>Water Environment Research</i> , 2017, 89, 369-377.	1.3	5
72	Use of bauxite residue (red mud) as a low cost sorbent for sulfide removal in polluted water remediation. <i>Water Science and Technology</i> , 2016, 74, 359-366.	1.2	3

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73	Wetland system for primary treatment of landfill leachate. Proceedings of Institution of Civil Engineers: Waste and Resource Management, 2009, 162, 75-83.	0.9	2
74	Response to Letter to the Editor "Aerobic phosphorus release from shallow lake sediments". Science of the Total Environment, 2011, 409, 4642-4643.	3.9	0
75	Comment on "A Pilot-Scale Field Study: In Situ Treatment of PCB-Impacted Sediments with Bioamended Activated Carbon". Environmental Science & Technology, 2019, 53, 6103-6103.	4.6	0
76	Simultaneous nitrification and denitrification using a novel up-flow bio-electrochemical reactor. , 0, 158, 97-104.		0