

Graeme Batley

List of Publications by Year in descending order

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59
papers

8,656
citations

76326

40
h-index

138484

58
g-index

59
all docs

59
docs citations

59
times ranked

9343
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials in the environment: Behavior, fate, bioavailability, and effects. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 1825-1851.	4.3	2,370
2	Comparative Toxicity of Nanoparticulate ZnO, Bulk ZnO, and ZnCl ₂ to a Freshwater Microalga (<i>Pseudokirchneriella subcapitata</i>): The Importance of Particle Solubility. <i>Environmental Science & Technology</i> , 2007, 41, 8484-8490.	10.0	1,173
3	Fate and Risks of Nanomaterials in Aquatic and Terrestrial Environments. <i>Accounts of Chemical Research</i> , 2013, 46, 854-862.	15.6	520
4	Nanomaterials in the environment: Behavior, fate, bioavailability, and effects—An updated review. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 2029-2063.	4.3	429
5	Effect of Short-Term Resuspension Events on Trace Metal Speciation in Polluted Anoxic Sediments. <i>Environmental Science & Technology</i> , 1998, 32, 620-625.	10.0	280
6	The role of biomarkers in the assessment of aquatic ecosystem health. <i>Integrated Environmental Assessment and Management</i> , 2014, 10, 327-341.	2.9	233
7	Trace metals species in sea-water. <i>Talanta</i> , 1976, 23, 179-186.	5.5	230
8	Application of polymer-coated glassy carbon electrodes in anodic stripping voltammetry. <i>Analytical Chemistry</i> , 1987, 59, 1608-1614.	6.5	218
9	Determination of the chemical forms of trace metals in natural waters, with special reference to copper, lead, cadmium and zinc. <i>Talanta</i> , 1977, 24, 151-158.	5.5	207
10	Adsorption as a control of metal concentrations in sediment extracts. <i>Environmental Science & Technology</i> , 1980, 14, 314-318.	10.0	195
11	Sampling and storage of natural waters for trace metal analysis. <i>Water Research</i> , 1977, 11, 745-756.	11.3	185
12	Determination of the chemical forms of dissolved cadmium, lead and copper in seawater. <i>Marine Chemistry</i> , 1976, 4, 347-363.	2.3	149
13	Effect of Short-Term Resuspension Events on the Oxidation of Cadmium, Lead, and Zinc Sulfide Phases in Anoxic Estuarine Sediments. <i>Environmental Science & Technology</i> , 2000, 34, 4533-4537.	10.0	129
14	Speciation and Bioavailability of Trace Metals in Water: Progress Since 1982. <i>Australian Journal of Chemistry</i> , 2004, 57, 903.	0.9	119
15	Pore water testing and analysis: the good, the bad, and the ugly. <i>Marine Pollution Bulletin</i> , 2002, 44, 359-366.	5.0	113
16	The influence of sediment particle size and organic carbon on toxicity of copper to benthic invertebrates in oxic/suboxic surface sediments. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1599-1610.	4.3	97
17	A Novel Scheme for the Classification of Heavy Metal Species in Natural Waters. <i>Analytical Letters</i> , 1976, 9, 379-388.	1.8	93
18	A Weight-of-Evidence Framework for Assessing Sediment (Or Other) Contamination: Improving Certainty in the Decision-Making Process. <i>Human and Ecological Risk Assessment (HERA)</i> , 2002, 8, 1675-1696.	3.4	93

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19	Determination of heavy metals in sea water by atomic absorption spectrometry after electrodeposition on pyrolytic graphite-coated tubes. <i>Analytical Chemistry</i> , 1977, 49, 2031-2035.	6.5	90
20	Removal of trace metals from seawater by a chelating resin. <i>Talanta</i> , 1975, 22, 201-204.	5.5	85
21	Irradiation techniques for the release of bound heavy metals in natural waters and blood. <i>Analytica Chimica Acta</i> , 1978, 99, 283-292.	5.4	78
22	A study of copper, lead and cadmium speciation in some estuarine and coastal marine waters. <i>Estuarine and Coastal Marine Science</i> , 1978, 7, 59-70.	0.9	78
23	Geochemical cycling and speciation of copper in waters and sediments of Macquarie Harbour, Western Tasmania. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 57, 475-487.	2.1	77
24	Considerations for Capping Metal-Contaminated Sediments in Dynamic Estuarine Environments. <i>Environmental Science & Technology</i> , 2002, 36, 3772-3778.	10.0	75
25	Derivation of a water quality guideline for aluminium in marine waters. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 141-151.	4.3	67
26	Sediment quality guidelines: challenges and opportunities for improving sediment management. <i>Environmental Science and Pollution Research</i> , 2014, 21, 17-27.	5.3	66
27	A rapid Chelex column method for the determination of metal speciation in natural waters. <i>Analytica Chimica Acta</i> , 2006, 558, 237-245.	5.4	60
28	Short-term accumulation of Cd and Cu from water, sediment and algae by the amphipod <i>Melita plumulosa</i> and the bivalve <i>Tellina deltoidalis</i> . <i>Marine Ecology - Progress Series</i> , 2005, 287, 177-188.	1.9	59
29	Studies of topochemical heterogeneous catalysis 3. Catalysis of the reduction of metal oxides by hydrogen. <i>Journal of Catalysis</i> , 1974, 34, 368-375.	6.2	58
30	Studies in the stereochemistry of zinc(II). V. Zinc complexes with N-alkylsalicylaldehydes. <i>Australian Journal of Chemistry</i> , 1967, 20, 877.	0.9	56
31	The impact of the banning of tributyltin-based antifouling paints on the Sydney rock oyster, <i>Saccostrea commercialis</i> . <i>Science of the Total Environment</i> , 1992, 122, 301-314.	8.0	56
32	Uncertainties in Sediment Quality Weight-of-Evidence (WOE) Assessments. <i>Human and Ecological Risk Assessment (HERA)</i> , 2002, 8, 1517-1547.	3.4	55
33	Assessing the health of sediment ecosystems: use of chemical measurements. <i>Freshwater Biology</i> , 1999, 41, 361-372.	2.4	54
34	The ability of sediment extractants to measure the bioavailability of metals to three marine invertebrates. <i>Science of the Total Environment</i> , 1992, 125, 67-84.	8.0	53
35	Differential-pulse polarographic determination of selenium species in contaminated waters. <i>Analytica Chimica Acta</i> , 1986, 187, 109-116.	5.4	47
36	Influence of the choice of physical and chemistry variables on interpreting patterns of sediment contaminants and their relationships with estuarine macrobenthic communities. <i>Marine and Freshwater Research</i> , 2010, 61, 1109.	1.3	46

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37	Development of guidelines for ammonia in estuarine and marine water systems. <i>Marine Pollution Bulletin</i> , 2009, 58, 1472-1476.	5.0	45
38	Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions. <i>Analytica Chimica Acta</i> , 1999, 381, 207-213.	5.4	43
39	Determination of sub-nanomolar concentrations of lead in sea water by adsorptive stripping voltammetry with xylene orange. <i>Analytica Chimica Acta</i> , 1995, 309, 95-101.	5.4	42
40	Studies in the stereochemistry of zinc(II). VI. Zinc complexes with quadridentate Schiff bases. <i>Australian Journal of Chemistry</i> , 1967, 20, 885.	0.9	41
41	Determination of the mercury complexation capacity of natural waters by anodic stripping voltammetry. <i>Analytica Chimica Acta</i> , 1997, 350, 129-134.	5.4	40
42	Electroanalytical techniques for the determination of heavy metals in seawater. <i>Marine Chemistry</i> , 1983, 12, 107-117.	2.3	37
43	Practical improvements for redox potential (EH) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ. <i>Analytica Chimica Acta</i> , 1998, 367, 201-213.	5.4	37
44	Heavy metals in waters and sediments of Port Phillip Bay, Australia. <i>Marine and Freshwater Research</i> , 1999, 50, 503.	1.3	36
45	Characterization and ecological risk assessment of nanoparticulate CeO ₂ as a diesel fuel catalyst. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 1896-1905.	4.3	35
46	The effect of surfactants on the concentration of heavy metals from natural waters on chelex-100 resin. <i>Analytica Chimica Acta</i> , 1978, 99, 333-342.	5.4	34
47	Baseline trace metal concentrations in New South Wales coastal waters. <i>Marine and Freshwater Research</i> , 1998, 49, 203.	1.3	34
48	Tetracycline in antifouling paints. <i>Marine Pollution Bulletin</i> , 1993, 26, 96-100.	5.0	33
49	Rapid detection of sewage contamination in marine waters using a fluorimetric assay of β -D-galactosidase activity. <i>Science of the Total Environment</i> , 1994, 141, 175-180.	8.0	32
50	Quality Assurance in Environmental Monitoring. <i>Marine Pollution Bulletin</i> , 1999, 39, 23-31.	5.0	32
51	Homogeneous catalysis in the reactions of olefinic substances. XI. Homogeneous catalytic hydrogenation of short-chain olefins with dichlorobis(triphenylphosphine)platinum(II)-tin(II) chloride catalyst. <i>Journal of the American Chemical Society</i> , 1968, 90, 6051-6056.	13.7	30
52	Recent history of sediment metal contamination in Lake Macquarie, Australia, and an assessment of ash handling procedure effectiveness in mitigating metal contamination from coal-fired power stations. <i>Science of the Total Environment</i> , 2014, 490, 659-670.	8.0	30
53	Chemical indicators of sediment chronology. <i>Marine and Freshwater Research</i> , 1993, 44, 635.	1.3	24
54	Ash distribution and metal contents of Lake Illawarra bottom sediments. <i>Marine and Freshwater Research</i> , 1994, 45, 977.	1.3	22

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55	Comparative studies of adsorption of polycyclic aromatic hydrocarbons by fly ashes from the combustion of some Australian coals. <i>Environmental Science & Technology</i> , 1988, 22, 322-327.	10.0	17
56	History of metal contamination in Lake Illawarra, NSW, Australia. <i>Chemosphere</i> , 2015, 119, 377-386.	8.2	13
57	Use of a multi-proxy method to support the restoration of estuaries receiving inputs from industry. <i>Ecological Engineering</i> , 2015, 85, 247-256.	3.6	3
58	Environmental policy recommendations for the new US President. <i>Integrated Environmental Assessment and Management</i> , 2017, 13, 7-7.	2.9	3
59	The challenges posed by radiation and radionuclide releases to the environment. <i>Integrated Environmental Assessment and Management</i> , 2011, 7, 360-361.	2.9	0