

Graeme Batley

List of Publications by Citations

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58
papers

7,236
citations

37
h-index

59
g-index

59
ext. papers

7,725
ext. citations

6.2
avg, IF

5.62
L-index

#	Paper	IF	Citations
58	Nanomaterials in the environment: behavior, fate, bioavailability, and effects. <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 1825-51	3.8	2098
57	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, 8484-90	10.3	1035
56	Fate and risks of nanomaterials in aquatic and terrestrial environments. <i>Accounts of Chemical Research</i> , 2013 , 46, 854-62	24.3	433
55	Nanomaterials in the environment: Behavior, fate, bioavailability, and effects-An updated review. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2029-2063	3.8	291
54	Effect of Short-Term Resuspension Events on Trace Metal Speciation in Polluted Anoxic Sediments. <i>Environmental Science & Technology</i> , 1998 , 32, 620-625	10.3	260
53	The role of biomarkers in the assessment of aquatic ecosystem health. <i>Integrated Environmental Assessment and Management</i> , 2014 , 10, 327-41	2.5	172
52	Trace metals species in sea-water-I: removal of trace metals from sea-water by a chelating resin. <i>Talanta</i> , 1976 , 23, 179-86	6.2	168
51	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, 151-8	6.2	164
50	Adsorption as a control of metal concentrations in sediment extracts. <i>Environmental Science & Technology</i> , 1980 , 14, 314-8	10.3	159
49	Application of polymer-coated glassy carbon electrodes in anodic stripping voltammetry. <i>Analytical Chemistry</i> , 1987 , 59, 1608-1614	7.8	158
48	Sampling and storage of natural waters for trace metal analysis. <i>Water Research</i> , 1977 , 11, 745-756	12.5	151
47	Determination of the chemical forms of dissolved cadmium, lead and copper in seawater. <i>Marine Chemistry</i> , 1976 , 4, 347-363	3.7	128
46	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	10.3	114
45	Speciation and Bioavailability of Trace Metals in Water: Progress Since 1982. <i>Australian Journal of Chemistry</i> , 2004 , 57, 903	1.2	107
44	Pore water testing and analysis: the good, the bad, and the ugly. <i>Marine Pollution Bulletin</i> , 2002 , 44, 359-66	6.6	107
43	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	4.9	80
42	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, 1599-610	3.8	76

41	A Novel Scheme for the Classification of Heavy Metal Species in Natural Waters. <i>Analytical Letters</i> , 1976 , 9, 379-388	2.2	73
40	Considerations for capping metal-contaminated sediments in dynamic estuarine environments. <i>Environmental Science & Technology</i> , 2002 , 36, 3772-8	10.3	67
39	Removal of trace metals from seawater by a chelating resin. <i>Talanta</i> , 1975 , 22, 201-4	6.2	65
38	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	2.9	59
37	Irradiation techniques for the release of bound heavy metals in natural waters and blood. <i>Analytica Chimica Acta</i> , 1978 , 99, 283-292	6.6	58
36	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		57
35	Studies in the stereochemistry of zinc(II). V. Zinc complexes with N-alkylsalicylaldimines. <i>Australian Journal of Chemistry</i> , 1967 , 20, 877	1.2	55
34	A rapid Chelex column method for the determination of metal speciation in natural waters. <i>Analytica Chimica Acta</i> , 2006 , 558, 237-245	6.6	54
33	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, 301-14	10.2	52
32	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	7.8	50
31	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	2.6	50
30	Derivation of a water quality guideline for aluminium in marine waters. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 141-51	3.8	49
29	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	10.2	49
28	Sediment quality guidelines: challenges and opportunities for improving sediment management. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 17-27	5.1	47
27	Uncertainties in Sediment Quality Weight-of-Evidence (WOE) Assessments. <i>Human and Ecological Risk Assessment (HERA)</i> , 2002 , 8, 1517-1547	4.9	47
26	Studies of topochemical heterogeneous catalysis 3. Catalysis of the reduction of metal oxides by hydrogen. <i>Journal of Catalysis</i> , 1974 , 34, 368-375	7.3	46
25	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	2.2	42
24	Assessing the health of sediment ecosystems: use of chemical measurements. <i>Freshwater Biology</i> , 1999 , 41, 361-372	3.1	41

23	Studies in the stereochemistry of zinc(II). VI. Zinc complexes with quadridentate Schiff bases. <i>Australian Journal of Chemistry</i> , 1967 , 20, 885	1.2	41
22	Development of guidelines for ammonia in estuarine and marine water systems. <i>Marine Pollution Bulletin</i> , 2009 , 58, 1472-6	6.7	39
21	Determination of the mercury complexation capacity of natural waters by anodic stripping voltammetry. <i>Analytica Chimica Acta</i> , 1997 , 350, 129-134	6.6	36
20	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	6.6	36
19	Differential-pulse polarographic determination of selenium species in contaminated waters. <i>Analytica Chimica Acta</i> , 1986 , 187, 109-116	6.6	36
18	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	6.6	32
17	Tetracycline in antifouling paints. <i>Marine Pollution Bulletin</i> , 1993 , 26, 96-100	6.7	31
16	Characterization and ecological risk assessment of nanoparticulate CeO ₂ as a diesel fuel catalyst. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 1896-905	3.8	30
15	Rapid detection of sewage contamination in marine waters using a fluorimetric assay of β-galactosidase activity. <i>Science of the Total Environment</i> , 1994 , 141, 175-180	10.2	30
14	Electroanalytical techniques for the determination of heavy metals in seawater. <i>Marine Chemistry</i> , 1983 , 12, 107-117	3.7	29
13	Baseline trace metal concentrations in New South Wales coastal waters. <i>Marine and Freshwater Research</i> , 1998 , 49, 203	2.2	28
12	Heavy metals in waters and sediments of Port Phillip Bay, Australia. <i>Marine and Freshwater Research</i> , 1999 , 50, 503	2.2	27
11	Determination of sub-nanomolar concentrations of lead in sea water by adsorptive stripping voltammetry with xylenol orange. <i>Analytica Chimica Acta</i> , 1995 , 309, 95-101	6.6	27
10	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	6.6	24
9	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	16.4	23
8	Quality Assurance in Environmental Monitoring. <i>Marine Pollution Bulletin</i> , 1999 , 39, 23-31	6.7	21
7	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, 659-70	10.2	19
6	Chemical indicators of sediment chronology. <i>Marine and Freshwater Research</i> , 1993 , 44, 635	2.2	19

5	Ash distribution and metal contents of Lake Illawarra bottom sediments. <i>Marine and Freshwater Research</i> , 1994 , 45, 977	2.2	17
4	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, 322-7	10.3	15
3	History of metal contamination in Lake Illawarra, NSW, Australia. <i>Chemosphere</i> , 2015 , 119, 377-386	8.4	10
2	Use of a multi-proxy method to support the restoration of estuaries receiving inputs from industry. <i>Ecological Engineering</i> , 2015 , 85, 247-256	3.9	3
1	The challenges posed by radiation and radionuclide releases to the environment. <i>Integrated Environmental Assessment and Management</i> , 2011 , 7, 360-1	2.5	