Stuart L Simpson

List of Publications by Citations

167 papers	6,643 citations	42 h-index	76 g-index
169 ext. papers	8,146 ext. citations	6.8 avg, IF	6.17 L-index

#	Paper	IF	Citations
167	First confirmed detection of SARS-CoV-2 in untreated wastewater in Australia: A proof of concept for the wastewater surveillance of COVID-19 in the community. *Science of the Total Environment*, **2020**, 728, 138764	10.2	829
166	World Scientists' Warning to Humanity: A Second Notice. *BioScience*, **2017**, 67, 1026-1028	5.7	563
165	Effect of overlying water pH, dissolved oxygen, salinity and sediment disturbances on metal release and sequestration from metal contaminated marine sediments. *Chemosphere*, **2007**, 69, 1428-37	8.4	278
164	Effect of Short-Term Resuspension Events on Trace Metal Speciation in Polluted Anoxic Sediments. *Environmental Science & Technology*, **1998**, 32, 620-625	10.3	260
163	Comparison of virus concentration methods for the RT-qPCR-based recovery of murine hepatitis virus, a surrogate for SARS-CoV-2 from untreated wastewater. *Science of the Total Environment*, **2020**, 739, 139960	10.2	225
162	Decay of SARS-CoV-2 and surrogate murine hepatitis virus RNA in untreated wastewater to inform application in wastewater-based epidemiology. *Environmental Research*, **2020**, 191, 110092	7.9	156
161	Metal equilibration in laboratory-contaminated (spiked) sediments used for the development of whole-sediment toxicity tests. *Chemosphere*, **2004**, 54, 597-609	8.4	152
160	Predicting metal toxicity in sediments: A critique of current approaches. *Integrated Environmental Assessment and Management*, **2007**, 3, 18-31	2.5	145
159	Effect of Short-Term Resuspension Events on the Oxidation of Cadmium, Lead, and Zinc Sulfide Phases in Anoxic Estuarine Sediments. *Environmental Science & Technology*, **2000**, 34, 4533-4537	10.3	114
158	Uptake and internalisation of copper by three marine microalgae: comparison of copper-sensitive and copper-tolerant species. *Aquatic Toxicology*, **2008**, 89, 82-93	5.1	91
157	SARS-CoV-2 RNA monitoring in wastewater as a potential early warning system for COVID-19 transmission in the community: A temporal case study. *Science of the Total Environment*, **2021**, 761, 144216	10.2	85
156	The challenge of choosing environmental indicators of anthropogenic impacts in estuaries. *Environmental Pollution*, **2012**, 163, 207-17	9.3	83
155	A rapid screening method for acid-volatile sulfide in sediments. *Environmental Toxicology and Chemistry*, **2001**, 20, 2657-2661	3.8	82
154	Demonstrating the appropriateness of developing sediment quality guidelines based on sediment geochemical properties. *Environmental Science & Technology*, **2013**, 47, 7483-9	10.3	81
153	Detection of SARS-CoV-2 RNA in commercial passenger aircraft and cruise ship wastewater: a surveillance tool for assessing the presence of COVID-19 infected travellers. *Journal of Travel Medicine*, **2020**, 27,	12.9	81
152	The influence of sediment particle size and organic carbon on toxicity of copper to benthic invertebrates in oxic/suboxic surface sediments. *Environmental Toxicology and Chemistry*, **2011**, 30, 1599-610	3.8	76
151	Disturbances to metal partitioning during toxicity testing of iron(II)-rich estuarine pore waters and whole sediments. *Environmental Toxicology and Chemistry*, **2003**, 22, 424-432	3.8	76

150	Competitive displacement reactions of cadmium, copper, and zinc added to a polluted, sulfidic estuarine sediment. *Environmental Toxicology and Chemistry*, **2000**, 19, 1992-1999	3.8	74
149	Oxidation of acid-volatile sulfide in surface sediments increases the release and toxicity of copper to the benthic amphipod Melita plumulosa. *Chemosphere*, **2012**, 88, 953-61	8.4	72
148	Sub-lethal effects of copper to benthic invertebrates explained by sediment properties and dietary exposure. *Environmental Science & Technology*, **2012**, 46, 6835-42	10.3	68
147	Considerations for capping metal-contaminated sediments in dynamic estuarine environments. *Environmental Science & Technology*, **2002**, 36, 3772-8	10.3	67
146	DGT-induced copper flux predicts bioaccumulation and toxicity to bivalves in sediments with varying properties. *Environmental Science & Technology*, **2012**, 46, 9038-46	10.3	66
145	Beyond the bed: effects of metal contamination on recruitment to bedded sediments and overlying substrata. *Environmental Pollution*, **2013**, 173, 182-91	9.3	66
144	Sensitivities of Australian and New Zealand amphipods to copper and zinc in waters and metal-spiked sediments. *Chemosphere*, **2006**, 63, 1466-76	8.4	66
143	Surveillance of SARS-CoV-2 RNA in wastewater: Methods optimisation and quality control are crucial for generating reliable public health information. *Current Opinion in Environmental Science and Health*, **2020**, 17, 82-82	8.1	66
142	Diffusive gradients in thin films technique provide robust prediction of metal bioavailability and toxicity in estuarine sediments. *Environmental Science & Technology*, **2014**, 48, 4485-94	10.3	65
141	Exposure-pathway models explain causality in whole sediment toxicity tests. *Environmental Science & Technology*, **2005**, 39, 837-43	10.3	65
140	Assessing the Effects of Bioturbation on Metal Bioavailability in Contaminated Sediments by Diffusive Gradients in Thin Films (DGT). *Environmental Science & Technology*, **2016**, 50, 3055-64	10.3	61
139	Performance and sensitivity of rapid sublethal sediment toxicity tests with the amphipod Melita plumulosa and copepod Nitocra spinipes. *Environmental Toxicology and Chemistry*, **2011**, 30, 2326-34	3.8	55
138	Big data opportunities and challenges for assessing multiple stressors across scales in aquatic ecosystems. *Marine and Freshwater Research*, **2016**, 67, 393	2.2	55
137	Bioavailability and Chronic Toxicity of Metal Sulfide Minerals to Benthic Marine Invertebrates: Implications for Deep Sea Exploration, Mining and Tailings Disposal. *Environmental Science & Technology*, **2016**, 50, 4061-70	10.3	53
136	An assessment of five Australian polychaetes and bivalves for use in whole-sediment toxicity tests: toxicity and accumulation of copper and zinc from water and sediment. *Archives of Environmental Contamination and Toxicology*, **2004**, 47, 314-23	3.2	51
135	Short-term accumulation of Cd and Cu from water, sediment and algae by the amphipod Melita plumulosa and the bivalve Tellina deltoidalis. *Marine Ecology - Progress Series*, **2005**, 287, 177-188	2.6	50
134	A risk assessment approach to contaminants in Port Curtis, Queensland, Australia. *Marine Pollution Bulletin*, **2005**, 51, 448-58	6.7	49
133	The impact of sediment bioturbation by secondary organisms on metal bioavailability, bioaccumulation and toxicity to target organisms in benthic bioassays: Implications for sediment quality assessment. *Environmental Pollution*, **2016**, 208, 590-9	9.3	46

132	Guidelines for copper in sediments with varying properties. *Chemosphere*, **2011**, 85, 1487-95	8.4	46
131	In situ-based effects measures: considerations for improving methods and approaches. *Integrated Environmental Assessment and Management*, **2007**, 3, 246-58	2.5	46
130	A molecular-based approach for examining responses of eukaryotes in microcosms to contaminant-spiked estuarine sediments. *Environmental Toxicology and Chemistry*, **2014**, 33, 359-69	3.8	43
129	A biomarker of contaminant exposure is effective in large scale assessment of ten estuaries. *Chemosphere*, **2014**, 100, 16-26	8.4	43
128	Exposure-effect model for calculating copper effect concentrations in sediments with varying copper binding properties: a synthesis. *Environmental Science & Technology*, **2005**, 39, 7089-96	10.3	43
127	Geochemical influences on metal partitioning in contaminated estuarine sediments. *Marine and Freshwater Research*, **2002**, 53, 9	2.2	43
126	Influence of the choice of physical and chemistry variables on interpreting patterns of sediment contaminants and their relationships with estuarine macrobenthic communities. *Marine and Freshwater Research*, **2010**, 61, 1109	2.2	42
125	Development of guidelines for ammonia in estuarine and marine water systems. *Marine Pollution Bulletin*, **2009**, 58, 1472-6	6.7	39
124	A rapid amphipod reproduction test for sediment quality assessment: In situ bioassays do not replicate laboratory bioassays. *Environmental Toxicology and Chemistry*, **2010**, 29, 2566-74	3.8	39
123	Comparative decay of sewage-associated marker genes in beach water and sediment in a subtropical region. *Water Research*, **2019**, 149, 511-521	12.5	39
122	Metal speciation and potential bioavailability changes during discharge and neutralisation of acidic drainage water. *Chemosphere*, **2014**, 103, 172-80	8.4	38
121	Cu and Zn concentration gradients created by dilution of pH neutral metal-spiked marine sediment: a comparison of sediment geochemistry with direct methods of metal addition. *Environmental Science & Technology*, **2008**, 42, 2912-8	10.3	38
120	Effect of nutrition on toxicity of contaminants to the epibenthic amphipod Melita plumulosa. *Archives of Environmental Contamination and Toxicology*, **2008**, 55, 593-602	3.2	38
119	454 pyrosequencing-based analysis of gene expression profiles in the amphipod Melita plumulosa: transcriptome assembly and toxicant induced changes. *Aquatic Toxicology*, **2014**, 153, 73-88	5.1	37
118	Incorporating bioavailability into management limits for copper in sediments contaminated by antifouling paint used in aquaculture. *Chemosphere*, **2013**, 93, 2499-506	8.4	36
117	Climate-driven mobilisation of acid and metals from acid sulfate soils. *Marine and Freshwater Research*, **2010**, 61, 129	2.2	36
116	Minimizing errors in RT-PCR detection and quantification of SARS-CoV-2 RNA for wastewater surveillance. *Science of the Total Environment*, **2022**, 805, 149877	10.2	36
115	Development and application of a rapid amphipod reproduction test for sediment-quality assessment. *Environmental Toxicology and Chemistry*, **2009**, 28, 1244-54	3.8	35

114	Dietary ingestion of fine sediments and microalgae represent the dominant route of exposure and metal accumulation for Sydney rock oyster (Saccostrea glomerata): A biokinetic model for zinc. *Aquatic Toxicology*, **2015**, 167, 46-54	5.1	34
113	Estuarine pollution of metals in China: science and mitigation. *Environmental Science & Technology*, **2014**, 48, 9975-6	10.3	34
112	Importance of subcellular metal partitioning and kinetics to predicting sublethal effects of copper in two deposit-feeding organisms. *Environmental Science & Technology*, **2015**, 49, 1806-14	10.3	34
111	Toxicity to Melita plumulosa from intermittent and continuous exposures to dissolved copper. *Environmental Toxicology and Chemistry*, **2010**, 29, 2823-30	3.8	34
110	Polychaete richness and abundance enhanced in anthropogenically modified estuaries despite high concentrations of toxic contaminants. *PLoS ONE*, **2013**, 8, e77018	3.7	33
109	The effect of manipulating sediment pH on the porewater chemistry of copper- and zinc-spiked sediments. *Chemosphere*, **2007**, 69, 1089-99	8.4	33
108	Flow injection determination of Al3+ and Al13O4(OH)24(H2O)127+ species using a 1.3-s reaction with 8-quinolinol-derivatised Fractogel. *Analytica Chimica Acta*, **1997**, 343, 19-32	6.6	31
107	Assessing mechanisms of toxicant response in the amphipod Melita plumulosa through transcriptomic profiling. *Aquatic Toxicology*, **2014**, 146, 247-57	5.1	30
106	The aluminium(III)-4-nitrocatechol system: potentiometry, voltammetry and application to the determination of reactive Al(III). *Analytica Chimica Acta*, **1997**, 345, 5-15	6.6	30
105	Acute phenanthrene toxicity to juvenile diploid and triploid African catfish (Clarias gariepinus): Molecular, biochemical, and histopathological alterations. *Environmental Pollution*, **2016**, 212, 155-165	9.3	29
104	Metal Fluxes from Porewaters and Labile Sediment Phases for Predicting Metal Exposure and Bioaccumulation in Benthic Invertebrates. *Environmental Science & Technology*, **2015**, 49, 14204-12	10.3	29
103	Intraday variability of indicator and pathogenic viruses in 1-h and 24-h composite wastewater samples: Implications for wastewater-based epidemiology. *Environmental Research*, **2021**, 193, 110531	7.9	29
102	The mismatch between bioaccumulation in field and laboratory environments: Interpreting the differences for metals in benthic bivalves. *Environmental Pollution*, **2015**, 204, 48-57	9.3	27
101	Slow avoidance response to contaminated sediments elicits sublethal toxicity to benthic invertebrates. *Environmental Science & Technology*, **2013**, 47, 5947-53	10.3	25
100	Time-averaged copper concentrations from continuous exposures predicts pulsed exposure toxicity to the marine diatom, Phaeodactylum tricornutum: Importance of uptake and elimination. *Aquatic Toxicology*, **2015**, 164, 1-9	5.1	24
99	Faster, Higher and Stronger? The Pros and Cons of Molecular Faunal Data for Assessing Ecosystem Condition. *Advances in Ecological Research*, **2014**, 51, 1-40	4.6	24
98	A short life-cycle test with the epibenthic copepod Nitocra spinipes for sediment toxicity assessment. *Environmental Toxicology and Chemistry*, **2011**, 30, 1430-9	3.8	24
97	Processes controlling metal transport and retention as metal-contaminated groundwaters efflux through estuarine sediments. *Chemosphere*, **2004**, 56, 821-31	8.4	24

96	Predictive modelling of pH and dissolved metal concentrations and speciation following mixing of acid drainage with river water. *Applied Geochemistry*, **2015**, 59, 1-10	3.5	23
95	Bioaccumulation kinetics and organ distribution of cadmium and zinc in the freshwater decapod crustacean Macrobrachium australiense. *Environmental Science & Technology*, **2015**, 49, 1182-9	10.3	23
94	Effect of declining toxicant concentrations on algal bioassay endpoints. *Environmental Toxicology and Chemistry*, **2003**, 22, 2073-9	3.8	23
93	Spatial variability of cadmium, copper, manganese, nickel and zinc in the Port Curtis Estuary, Queensland, Australia. *Marine and Freshwater Research*, **2010**, 61, 170	2.2	22
92	Resuspended contaminated sediments cause sublethal stress to oysters: A biomarker differentiates total suspended solids and contaminant effects. *Environmental Toxicology and Chemistry*, **2015**, 34, 1345-53	3.8	21
91	Toxicity of metals to the bivalve Tellina deltoidalis and relationships between metal bioaccumulation and metal partitioning between seawater and marine sediments. *Archives of Environmental Contamination and Toxicology*, **2010**, 58, 657-65	3.2	21
90	Sub-lethal effects of water-based drilling muds on the deep-water sponge Geodia barretti. *Environmental Pollution*, **2016**, 212, 525-534	9.3	20
89	Dissolved and particulate copper exposure induces differing gene expression profiles and mechanisms of toxicity in the deposit feeding amphipod Melita plumulosa. *Environmental Science & Technology*, **2014**, 48, 3504-12	10.3	20
88	An assessment of three harpacticoid copepod species for use in ecotoxicological testing. *Archives of Environmental Contamination and Toxicology*, **2011**, 61, 414-25	3.2	20
87	Field and laboratory evaluation of DGT for predicting metal bioaccumulation and toxicity in the freshwater bivalve Hyridella australis exposed to contaminated sediments. *Environmental Pollution*, **2018**, 243, 862-871	9.3	20
86	Variability in RT-qPCR assay parameters indicates unreliable SARS-CoV-2 RNA quantification for wastewater surveillance. *Water Research*, **2021**, 203, 117516	12.5	20
85	Scientific Considerations for the Assessment and Management of Mine Tailings Disposal in the Deep Sea. *Frontiers in Marine Science*, **2018**, 5,	4.5	19
84	Trace metals associated with deep-sea tailings placement at the Batu Hijau copper-gold mine, Sumbawa, Indonesia. *Marine Pollution Bulletin*, **2013**, 73, 306-13	6.7	19
83	Avoidance of contaminated sediments by an amphipod (Melita plumulosa), A harpacticoid copepod (Nitocra spinipes), and a snail (Phallomedusa solida). *Environmental Toxicology and Chemistry*, **2013**, 32, 644-52	3.8	19
82	Equilibrium modelling of interferences in the visible spectrophotometric determination of aluminium(III): Comparison of the chromophores chrome azurol S, eriochrome cyanine R and pyrocatechol violet, and stability constants for eriochrome cyanine R-aluminium complexes. *Analytica Chimica Acta*, **1996**, 319, 305-314	6.6	19
81	Sediment Contaminants and Infauna Associated with Recreational Boating Structures in a Multi-Use Marine Park. *PLoS ONE*, **2015**, 10, e0130537	3.7	19
80	Using meta-omics of contaminated sediments to monitor changes in pathways relevant to climate regulation. *Environmental Microbiology*, **2019**, 21, 389-401	5.2	19
79	Predicting metal toxicity in sediments: a critique of current approaches. *Integrated Environmental Assessment and Management*, **2007**, 3, 18-31	2.5	19

78	Bioaccumulation and retention kinetics of cadmium in the freshwater decapod Macrobrachium australiense. *Aquatic Toxicology*, **2014**, 148, 174-83	5.1	18
77	Interactive effects of multiple stressors revealed by sequencing total (DNA) and active (RNA) components of experimental sediment microbial communities. *Science of the Total Environment*, **2018**, 637-638, 1383-1394	10.2	18
76	Metal Transfer among Organs Following Short- and Long-Term Exposures Using Autoradiography: Cadmium Bioaccumulation by the Freshwater Prawn Macrobrachium australiense. *Environmental Science & Technology*, **2017**, 51, 4054-4060	10.3	17
75	Time-averaged concentrations are effective for predicting chronic toxicity of varying copper pulse exposures for two freshwater green algae species. *Environmental Pollution*, **2017**, 230, 787-797	9.3	17
74	Sorption behaviour of per- and polyfluoroalkyl substances (PFASs) as affected by the properties of coastal estuarine sediments. *Science of the Total Environment*, **2020**, 720, 137263	10.2	17
73	Sample storage artifacts affecting the measurement of dissolved copper in sulfidic waters. *Analytical Chemistry*, **1998**, 70, 4202-5	7.8	17
72	Aluminium(III)pyrocatechol violet equilibria: a potentiometric study. *Journal of the Chemical Society Dalton Transactions*, **1995**, 1799-1804		17
71	Use of a novel sediment exposure to determine the effects of triclosan on estuarine benthic communities. *Environmental Toxicology and Chemistry*, **2013**, 32, 384-92	3.8	16
70	Kinetic and thermodynamic considerations in the determination of aluminium using pyrocatechol violet: implications for the use of 'kinetic-based' determinations of metal ions in natural systems. *Analytica Chimica Acta*, **1998**, 359, 329-340	6.6	16
69	Application of surrogate methods for assessing the bioavailability of PAHs in sediments to a sediment ingesting bivalve. *Chemosphere*, **2006**, 65, 2401-10	8.4	15
68	Application of diffusive gradients in thin films (DGT) and simultaneously extracted metals (SEM) for evaluating bioavailability of metal contaminants in the sediments of Taihu Lake, China. *Ecotoxicology and Environmental Safety*, **2019**, 184, 109627	7	14
67	Long-term copper partitioning of metal-spiked sediments used in outdoor mesocosms. *Environmental Science and Pollution Research*, **2014**, 21, 7130-9	5.1	13
66	Metal-contaminated resuspended sediment particles are a minor metal-uptake route for the Sydney rock oyster (Saccostrea glomerata)--A mesocosm study, Sydney Harbour estuary, Australia. *Marine Pollution Bulletin*, **2016**, 104, 190-7	6.7	13
65	Differentiating between the possibility and probability of SARS-CoV-2 transmission associated with wastewater: empirical evidence is needed to substantiate risk. *FEMS Microbes*, **2021**, 2,	0.8	13
64	Risks of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) for Sustainable Water Recycling via Aquifers. *Water (Switzerland)*, **2019**, 11, 1737	3	12
63	Bioturbation effects on metal release from contaminated sediments are metal-dependent. *Environmental Pollution*, **2019**, 250, 87-96	9.3	12
62	Effects of micronized and nano-copper azole on marine benthic communities. *Environmental Toxicology and Chemistry*, **2018**, 37, 362-375	3.8	12
61	Challenges with tracing the fate and speciation of mine-derived metals in turbid river systems: implications for bioavailability. *Environmental Science and Pollution Research*, **2013**, 20, 7803-14	5.1	12

60	Establishing cause-effect relationships in hydrocarbon-contaminated sediments using a sublethal response of the benthic marine alga, Entomoneis cf punctulata. *Environmental Toxicology and Chemistry*, **2007**, 26, 163-70	3.8	12
59	Bacterially Assisted Oxidation of Copper Sulfide Minerals in Tropical River Waters. *Environmental Chemistry*, **2005**, 2, 49	3.2	12
58	Effects of enhanced bioturbation intensities on the toxicity assessment of legacy-contaminated sediments. *Environmental Pollution*, **2017**, 226, 335-345	9.3	11
57	The use of time-averaged concentrations of metals to predict the toxicity of pulsed complex effluent exposures to a freshwater alga. *Environmental Pollution*, **2018**, 238, 607-616	9.3	11
56	Comparing trace metal bioaccumulation characteristics of three freshwater decapods of the genus Macrobrachium. *Aquatic Toxicology*, **2014**, 152, 256-63	5.1	11
55	Physico-chemical changes in metal-spiked sediments deployed in the field: implications for the interpretation of in situ studies. *Chemosphere*, **2011**, 83, 400-8	8.4	11
54	Biology of a new species of socially parasitic thrips (Thysanoptera: Phlaeothripidae) inside Dunatothrips nests, with evolutionary implications for inquilinism in thrips. *Biological Journal of the Linnean Society*, **2012**, 107, 112-122	1.9	10
53	The Effect of Sediment Type and pH-Adjustment on the Porewater Chemistry of Copper- and Zinc-Spiked Sediments. *Soil and Sediment Contamination*, **2009**, 18, 55-73	3.2	10
52	Influence of sediment metal spiking procedures on copper bioavailability and toxicity in the estuarine bivalve Indoaustriella lamprelli. *Environmental Toxicology and Chemistry*, **2009**, 28, 1885-92	3.8	10
51	Pyrocatechol Violet Complexation at the Boehmite-Water Interface. *Journal of Colloid and Interface Science*, **2000**, 229, 568-574	9.3	10
50	Decay of sewage-associated bacterial communities in fresh and marine environmental waters and sediment. *Applied Microbiology and Biotechnology*, **2018**, 102, 7159-7170	5.7	9
49	Alterations in juvenile diploid and triploid African catfish skin gelatin yield and amino acid composition: Effects of chlorpyrifos and butachlor exposures. *Environmental Pollution*, **2016**, 215, 170-177	9.3	8
48	An evaluation of copper remobilization from mine tailings in sulfidic environments. *Journal of Geochemical Exploration*, **1998**, 63, 203-215	3.8	8
47	Comparison of RT-qPCR and RT-dPCR Platforms for the Trace Detection of SARS-CoV-2 RNA in Wastewater. *ACS ES&T Water*,		8
46	Occurrence of SARS-CoV-2 RNA in Six Municipal Wastewater Treatment Plants at the Early Stage of COVID-19 Pandemic in The United States. *Pathogens*, **2021**, 10,	4.5	8
45	Fate and dynamics of metal precipitates arising from acid drainage discharges to a river system. *Chemosphere*, **2018**, 212, 811-820	8.4	8
44	Diffusive Milli-Gels (DMG) for in situ assessment of metal bioavailability: A comparison with labile metal measurement using Chelex columns and acute toxicity to Ceriodaphnia dubia for copper in freshwaters. *Chemosphere*, **2016**, 164, 7-13	8.4	7
43	Evaluation of process limit of detection and quantification variation of SARS-CoV-2 RT-qPCR and RT-dPCR assays for wastewater surveillance.. *Water Research*, **2022**, 213, 118132	12.5	7

42	Contrasting effects of bioturbation on metal toxicity of contaminated sediments results in misleading interpretation of the AVS-SEM metal-sulfide paradigm. *Environmental Sciences: Processes and Impacts*, **2018**, 20, 1285-1296	4.3	7
41	Comparative analysis of rapid concentration methods for the recovery of SARS-CoV-2 and quantification of human enteric viruses and a sewage-associated marker gene in untreated wastewater. *Science of the Total Environment*, **2021**, 799, 149386	10.2	7
40	Uncovering hidden heterogeneity: Geo-statistical models illuminate the fine scale effects of boating infrastructure on sediment characteristics and contaminants. *Marine Pollution Bulletin*, **2017**, 119, 143-150	6.7	6
39	Predicting chronic algal toxicity from 1- to 48-h pulsed exposures to mine site waters using time-averaged concentrations. *Ecotoxicology and Environmental Safety*, **2020**, 192, 110263	7	6
38	Links between contaminant hotspots in low flow estuarine systems and altered sediment biogeochemical processes. *Estuarine, Coastal and Shelf Science*, **2017**, 198, 497-507	2.9	6
37	Detection of the Omicron (B.1.1.529) variant of SARS-CoV-2 in aircraft wastewater.. *Science of the Total Environment*, **2022**, 820, 153171	10.2	6
36	Improved prediction of sediment toxicity using a combination of sediment and overlying water contaminant exposures. *Environmental Pollution*, **2020**, 266, 115187	9.3	6
35	Remediation criteria for gasworks-impacted sediments: Assessing the effects of legacy hydrocarbons and more recent metal contamination. *Science of the Total Environment*, **2020**, 737, 139725	10.2	6
34	Disturbances to metal partitioning during toxicity testing of iron(II)-rich estuarine pore waters and whole sediments. *Environmental Toxicology and Chemistry*, **2003**, 22, 424-32	3.8	6
33	Challenges in understanding the sources of bioaccumulated metals in biota inhabiting turbid river systems. *Environmental Science and Pollution Research*, **2014**, 21, 1960-1970	5.1	5
32	Effects of light on microalgae concentrations and selenium uptake in bivalves exposed to selenium-amended sediments. *Archives of Environmental Contamination and Toxicology*, **2007**, 53, 365-70	3.2	5
31	Wastewater surveillance demonstrates high predictive value for COVID-19 infection on board repatriation flights to Australia. *Environment International*, **2021**, 158, 106938	12.9	5
30	Chronic effects and thresholds for estuarine and marine benthic organism exposure to perfluorooctane sulfonic acid (PFOS)-contaminated sediments: Influence of organic carbon and exposure routes. *Science of the Total Environment*, **2021**, 776, 146008	10.2	5
29	Changes in nutritional parameters in diploid and triploid African catfish Clarias gariepinus following chlorpyrifos exposure. *Aquatic Biology*, **2017**, 26, 101-111	2	4
28	Antibiotic Resistance and Sewage-Associated Marker Genes in Untreated Sewage and a River Characterized During Baseflow and Stormflow. *Frontiers in Microbiology*, **2021**, 12, 632850	5.7	4
27	Assisted natural recovery of hypersaline sediments: salinity thresholds for the establishment of a community of bioturbating organisms. *Environmental Sciences: Processes and Impacts*, **2018**, 20, 1244-1253	4.3	3
26	The influence of small-scale circum-neutral pH change on Cu-bioavailability and toxicity to an estuarine bivalve (Austriella cf plicifera) in whole-sediment toxicity tests. *Science of the Total Environment*, **2008**, 405, 87-95	10.2	3
25	Disturbances to metal partitioning during toxicity testing of iron(II)-rich estuarine pore waters and whole sediments **2003**, 22, 424		3

24	The Diffusive Gradients in Thin Films Technique Predicts Sediment Nickel Toxicity to the Amphipod Melita plumulosa. *Environmental Toxicology and Chemistry*, **2021**, 40, 1266-1278	3.8	3
23	In Situ DGT Sensing of Bioavailable Metal Fluxes to Improve Toxicity Predictions for Sediments. *Environmental Science & Technology*, **2021**, 55, 7355-7364	10.3	3
22	Challenges for using quantitative PCR test batteries as a TIE-type approach to identify metal exposure in benthic invertebrates. *Environmental Science and Pollution Research*, **2015**, 22, 17280-9	5.1	2
21	Short-Term Guideline Values for Chlorine in Marine Waters. *Environmental Toxicology and Chemistry* , **2020**, 39, 754-764	3.8	2
20	Modifying tie methods to demonstrate dietary toxicity in whole-sediment toxicity tests. *Integrated Environmental Assessment and Management*, **2008**, 4, 371-372	2.5	2
19	Application of a Multi-Metal Stable-Isotope-Enriched Bioassay to Assess Changes to Metal Bioavailability in Suspended Sediments. *Environmental Science & Technology*, **2021**, 55, 13005-13013	10.3	2
18	The effects of pulse exposures of metal toxicants on different life stages of the tropical copepod Acartia sinjiensis. *Environmental Pollution*, **2021**, 285, 117212	9.3	2
17	Monitoring of SARS-CoV-2 in sewersheds with low COVID-19 cases using a passive sampling technique.. *Water Research*, **2022**, 218, 118481	12.5	2
16	Changes in nutritional values induced by butachlor in juvenile diploid and triploid Clarias gariepinus. *International Journal of Environmental Science and Technology*, **2018**, 15, 2117-2128	3.3	1
15	In Situ Calibration of Passive Samplers for Viruses in Wastewater. *ACS ES&T Water*,		1
14	Loss of benthic macrofauna functional traits correlates with changes in sediment biogeochemistry along an extreme salinity gradient in the Coorong lagoon, Australia. *Marine Pollution Bulletin*, **2021**, 174, 113202	6.7	1
13	Metal forms and dynamics in urban stormwater runoff: New insights from diffusive gradients in thin-films (DGT) measurements.. *Water Research*, **2021**, 209, 117967	12.5	1
12	Sediment Toxicity Testing **2016**, 199-237		1
11	Pulse-Exposure Toxicity of Ammonia and Propoxur to the Tropical Copepod Acartia sinjiensis. *Environmental Toxicology and Chemistry*, **2021**,	3.8	1
10	Application of digital PCR for public health-related water quality monitoring.. *Science of the Total Environment*, **2022**, 155663	10.2	1
9	RT-qPCR and ATOPlex sequencing for the sensitive detection of SARS-CoV-2 RNA for wastewater surveillance. *Water Research*, **2022**, 118621	12.5	1
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