Lorraine L Maltby

List of Publications by Citations

118 papers	5,345 citations	42 h-index	71 g-index
129 ext. papers	5,849 ext. citations	5.9 avg, IF	5.62 L-index

#	Paper	IF	Citations
118	Biodiversity and the Feel-Good Factor: Understanding Associations between Self-Reported Human Well-being and Species Richness. *BioScience*, **2012**, 62, 47-55	5.7	405
117	Insecticide species sensitivity distributions: importance of test species selection and relevance to aquatic ecosystems. *Environmental Toxicology and Chemistry*, **2005**, 24, 379-88	3.8	308
116	Evaluation of the Gammarus pulex in situ feeding assay as a biomonitor of water quality: Robustness, responsiveness, and relevance. *Environmental Toxicology and Chemistry*, **2002**, 21, 361-368	3.8	203
115	Fungicide risk assessment for aquatic ecosystems: importance of interspecific variation, toxic mode of action, and exposure regime. *Environmental Science & Technology*, **2009**, 43, 7556-63	10.3	161
114	STUDYING STRESS: THE IMPORTANCE OF ORGANISM-LEVEL RESPONSES **1999**, 9, 431-440		154
113	The effects of motorway runoff on freshwater ecosystems: 1. Field study. *Environmental Toxicology and Chemistry*, **1995**, 14, 1079-1092	3.8	139
112	Comparison of tropical and temperate freshwater animal species' acute sensitivities to chemicals: Implications for deriving safe extrapolation factors. *Integrated Environmental Assessment and Management*, **2007**, 3, 49-67	2.5	137
111	Development of a framework based on an ecosystem services approach for deriving specific protection goals for environmental risk assessment of pesticides. *Science of the Total Environment*, **2012**, 415, 31-8	10.2	131
110	Scope for growth in Gammarus pulex, a freshwater benthic detritivore. *Hydrobiologia*, **1989**, 188-189, 517-523	2.4	124
109	Importance of fungi in the diet of Gammarus pulex and Asellus aquaticus I: feeding strategies. *Oecologia*, **1993**, 93, 139-144	2.9	120
108	Aquatic risks of pesticides, ecological protection goals, and common aims in european union legislation. *Integrated Environmental Assessment and Management*, **2006**, 2, e20-e46	2.5	118
107	Predictive Value of Species Sensitivity Distributions for Effects of Herbicides in Freshwater Ecosystems. *Human and Ecological Risk Assessment (HERA)*, **2006**, 12, 645-674	4.9	117
106	Evaluation of sensitivity and specificity of two crustacean biochemical biomarkers. *Environmental Toxicology and Chemistry*, **2000**, 19, 2085-2092	3.8	112
105	The effects of motorway runoff on freshwater ecosystems: 2. Identifying major toxicants. *Environmental Toxicology and Chemistry*, **1995**, 14, 1093-1101	3.8	104
104	A framework for assessing ecological quality based on ecosystem services. *Ecological Complexity*, **2010**, 7, 273-281	2.6	102
103	Toward a mechanistic understanding of contaminant-induced changes in detritus processing in streams: Direct and indirect effects on detritivore feeding. *Environmental Toxicology and Chemistry*, **2000**, 19, 2100-2106	3.8	97
102	Importance of fungi in the diet of Gammarus pulex and Asellus aquaticus : II. Effects on growth, reproduction and physiology. *Oecologia*, **1993**, 96, 304-309	2.9	96

101	. *Environmental Toxicology and Chemistry*, **2002**, 21, 361	3.8	91
100	Fungal composition on leaves explains pollutant-mediated indirect effects on amphipod feeding. *Aquatic Toxicology*, **2011**, 104, 32-7	5.1	85
99	A critical assessment of the validity of ergosterol as an indicator of fungal biomass. *Mycological Research*, **1995**, 99, 479-484		85
98	Sensitivity of the crustaceans Gammarus pulex (L.) and Asellus aquaticus (L.) to short-term exposure to hypoxia and unionized ammonia: Observations and possible mechanisms. *Water Research*, **1995**, 29, 781-787	12.5	80
97	Contrasting patterns in species richness of birds, butterflies and plants along riparian corridors in an urban landscape. *Diversity and Distributions*, **2012**, 18, 742-753	5	77
96	Effect of stress on a freshwater benthic detritivore: scope for growth in Gammarus pulex. *Ecotoxicology and Environmental Safety*, **1990**, 19, 285-91	7	75
95	Reintroducing Environmental Change Drivers in Biodiversity-Ecosystem Functioning Research. *Trends in Ecology and Evolution*, **2016**, 31, 905-915	10.9	71
94	Understanding spatial patterns in the production of multiple urban ecosystem services. *Ecosystem Services*, **2015**, 16, 33-46	6.1	69
93	Toward sustainable environmental quality: Priority research questions for Europe. *Environmental Toxicology and Chemistry*, **2018**, 37, 2281-2295	3.8	68
92	In situ-based effects measures: determining the ecological relevance of measured responses. *Integrated Environmental Assessment and Management*, **2007**, 3, 259-67	2.5	68
91	Preliminary Observations on the Ecological Relevance of the Gammarus 'Scope for Growth' Assay: Effect of Zinc on Reproduction. *Functional Ecology*, **1990**, 4, 393	5.6	64
90	Species turnover and geographic distance in an urban river network. *Diversity and Distributions*, **2013**, 19, 1429-1439	5	62
89	Environmental impact propagated by cross-system subsidy: chronic stream pollution controls riparian spider populations. *Ecology*, **2011**, 92, 1711-6	4.6	62
88	Using single-species toxicity tests, community-level responses, and toxicity identification evaluations to investigate effluent impacts. *Environmental Toxicology and Chemistry*, **2000**, 19, 151-157	3.8	62
87	Responses of Gammarus pulex (Amphipoda, Crustacea) to metalliferous effluents: identification of toxic components and the importance of interpopulation variation. *Environmental Pollution*, **1994**, 84, 45-52	9.3	62
86	Historical influences on the current provision of multiple ecosystem services. *Global Environmental Change*, **2015**, 31, 307-317	10.1	60
85	The effects of motorway runoff on freshwater ecosystems: 3. Toxicant confirmation. *Archives of Environmental Contamination and Toxicology*, **1997**, 33, 9-16	3.2	57
84	Food production, ecosystem services and biodiversity: We can't have it all everywhere. *Science of the Total Environment*, **2016**, 573, 1422-1429	10.2	56

83	What personal and environmental factors determine frequency of urban greenspace use?. *International Journal of Environmental Research and Public Health*, **2014**, 11, 7977-92	4.6	56
82	Field deployment of a scope for growth assay involving Gammarus pulex, a freshwater benthic invertebrate. *Ecotoxicology and Environmental Safety*, **1990**, 19, 292-300	7	50
81	Relative toxicological importance of aqueous and dietary metal exposure to a freshwater crustacean: implications for risk assessment. *Environmental Toxicology and Chemistry*, **2006**, 25, 1795-801	3.8	49
80	Assessing effects of the fungicide tebuconazole to heterotrophic microbes in aquatic microcosms. *Science of the Total Environment*, **2014**, 490, 1002-11	10.2	45
79	. *Environmental Toxicology and Chemistry*, **1991**, 10, 1331	3.8	45
78	Shifts of community composition and population density substantially affect ecosystem function despite invariant richness. *Ecology Letters*, **2017**, 20, 1315-1324	10	44
77	The characterization and toxicity of sediment contaminated with road runoff. *Water Research*, **1995** , 29, 2043-2050	12.5	44
76	Characterizing sediment acid volatile sulfide concentrations in European streams. *Environmental Toxicology and Chemistry*, **2007**, 26, 1-12	3.8	40
75	The lethal and sublethal responses of gammarus pulex to stress: Sensitivity and sources of variation in an in situ bioassay. *Environmental Toxicology and Chemistry*, **1991**, 10, 1331-1339	3.8	39
74	Sublethal effects and predator-prey interactions: implications for ecological risk assessment. *Environmental Toxicology and Chemistry*, **2009**, 28, 2449-57	3.8	38
73	The application of bioassays in the resolution of environmental problems; past, present and future. *Hydrobiologia*, **1989**, 188-189, 65-76	2.4	35
72	Quantifying preferences for the natural world using monetary and nonmonetary assessments of value. *Conservation Biology*, **2014**, 28, 404-13	6	34
71	Spray drift of pesticides and stream macroinvertebrates: experimental evidence of impacts and effectiveness of mitigation measures. *Environmental Pollution*, **2008**, 156, 1112-20	9.3	34
70	The effect of coal-mine effluent on fungal assemblages and leaf breakdown. *Water Research*, **1991**, 25, 247-250	12.5	34
69	Effects of a Coal Mine Effluent on Aquatic Hyphomycetes. I. Field Study. *Journal of Applied Ecology*, **1996**, 33, 1311	5.8	33
68	The use of the physiological energetics of Gammarus pulex to assess toxicity: A study using artificial streams. *Environmental Toxicology and Chemistry*, **1992**, 11, 79-85	3.8	33
67	Pollution as a Probe of Life-History Adaptation in Asellus aquaticus (Isopoda). *Oikos*, **1991**, 61, 11	4	32
66	Use of Immunoassays for the Study of Natural Assemblages of Aquatic Hyphomycetes. *Microbial Ecology*, **1997**, 33, 223-9	4.4	29

65	Acute tier-1 and tier-2 effect assessment approaches in the EFSA Aquatic Guidance Document: are they sufficiently protective for insecticides?. *Pest Management Science*, **2015**, 71, 1059-67	4.6	27
64	Comparative ecology of Gammarus pulex (L.) and Asellus aquaticus (L.) II: fungal preferences. *Hydrobiologia*, **1994**, 281, 163-170	2.4	27
63	Ecosystem services and the protection, restoration, and management of ecosystems exposed to chemical stressors. *Environmental Toxicology and Chemistry*, **2013**, 32, 974-83	3.8	26
62	Variation in the bioaccumulation of a sediment-sorbed hydrophobic compound by benthic macroinvertebrates: patterns and mechanisms. *Environmental Science & Technology*, **2007**, 41, 1783-9	10.3	26
61	Effects of the fungicide metiram in outdoor freshwater microcosms: responses of invertebrates, primary producers and microbes. *Ecotoxicology*, **2012**, 21, 1550-69	2.9	24
60	Monoclonal antibodies as tools to quantify mycelium of aquatic hyphomycetes. *New Phytologist*, **1996**, 132, 593-601	9.8	24
59	Assessing the impact of episodic pollution. *Hydrobiologia*, **1989**, 188-189, 633-640	2.4	23
58	. *Environmental Toxicology and Chemistry*, **1992**, 11, 79	3.8	23
57	Advantages and challenges associated with implementing an ecosystem services approach to ecological risk assessment for chemicals. *Science of the Total Environment*, **2018**, 621, 1342-1351	10.2	23
56	Identifying and assessing the application of ecosystem services approaches in environmental policies and decision making. *Integrated Environmental Assessment and Management*, **2017**, 13, 41-51	2.5	22
55	Prioritising ecosystem services in Chinese rural and urban communities. *Ecosystem Services*, **2016**, 21, 1-5	6.1	20
54	Captive pandas are at risk from environmental toxins. *Frontiers in Ecology and the Environment*, **2016**, 14, 363-367	5.5	20
53	Estimating the Abundance of Stone-dwelling Organisms: A New Method. *Canadian Journal of Fisheries and Aquatic Sciences*, **1986**, 43, 2025-2035	2.4	20
52	Priorities and opportunities in the application of the ecosystem services concept in risk assessment for chemicals in the environment. *Science of the Total Environment*, **2019**, 651, 1067-1077	10.2	20
51	Is an ecosystem services-based approach developed for setting specific protection goals for plant protection products applicable to other chemicals?. *Science of the Total Environment*, **2017**, 580, 1222-1236	10.2	17
50	Aquatic Macrophyte Risk Assessment for Pesticides		17
49	Awareness of greater numbers of ecosystem services affects preferences for floodplain management. *Ecosystem Services*, **2017**, 24, 138-146	6.1	16
48	Toward the definition of specific protection goals for the environmental risk assessment of chemicals: A perspective on environmental regulation in Europe. *Integrated Environmental Assessment and Management*, **2017**, 13, 17-37	2.5	15

47	Importance of prey and predator feeding behaviors for trophic transfer and secondary poisoning. *Environmental Science & Technology*, **2009**, 43, 7916-23	10.3	15
46	AMEG: the new SETAC advisory group on aquatic macrophyte ecotoxicology. *Environmental Science and Pollution Research*, **2010**, 17, 820-3	5.1	15
45	Getting a measure of nature: cultures and values in an ecosystem services approach. *Interdisciplinary Science Reviews*, **2007**, 32, 249-262	0.7	15
44	Highway increases concentrations of toxic metals in giant panda habitat. *Environmental Science and Pollution Research*, **2016**, 23, 21262-21272	5.1	15
43	Gammarids as Reference Species for Freshwater Monitoring **2015**, 253-280		14
42	Mainstreaming ecosystem services into decision making. *Frontiers in Ecology and the Environment*, **2014**, 12, 539-539	5.5	14
41	Spatial variation in the impact of dragonflies and debris on recreational ecosystem services in a floodplain wetland. *Ecosystem Services*, **2015**, 15, 113-121	6.1	13
40	Acute toxicity tests on the freshwater isopod, Asellus aquaticus using FeSO4. 7H2O, with special reference to techniques and the possibility of intraspecific variation. *Environmental Pollution*, **1987**, 43, 271-9	9.3	13
39	Anaerobic capacity of a crustacean sensitive to low environmental oxygen tensions, the freshwater amphipod Gammarus pulex (L.). *Hydrobiologia*, **2002**, 477, 189-194	2.4	12
38	Spatial and temporal variability in the structure of invertebrate assemblages in control stream mesocosms. *Water Research*, **2004**, 38, 128-38	12.5	12
37	Effects of a Coal Mine Effluent on Aquatic Hyphomycetes. II. Laboratory Toxicity Experiments. *Journal of Applied Ecology*, **1996**, 33, 1322	5.8	12
36	Effect of water-borne zinc on osmoregulation in the freshwater amphipod Gammarus pulex (L.) from populations that differ in their sensitivity to metal stress. *Functional Ecology*, **1998**, 12, 242-247	5.6	11
35	Use of a Monoclonal Antibody-Based Immunoassay for the Detection and Quantification of Heliscus lugdunensis Colonizing Alder Leaves and Roots. *Microbial Ecology*, **2001**, 42, 506-512	4.4	11
34	Impacts of habitat heterogeneity on the provision of multiple ecosystem services in a temperate floodplain. *Basic and Applied Ecology*, **2018**, 29, 32-43	3.2	10
33	The effects of motorway runoff on freshwater ecosystems: 1. Field study **1995**, 14, 1079		10
32	Ecosystem services, environmental stressors, and decision making: How far have we got?. *Integrated Environmental Assessment and Management*, **2017**, 13, 38-40	2.5	9
31	Exposure of the endangered golden monkey (Rhinopithecus roxellana) to heavy metals: a comparison of wild and captive animals. *Environmental Science and Pollution Research*, **2015**, 22, 6713-20	5.1	8
30	Advancing environmental risk assessment of regulated products under EFSA's remit. *EFSA Journal*, **2016**, 14, e00508	2.3	8

29	Environmental toxicants impair liver and kidney function and sperm quality of captive pandas. *Ecotoxicology and Environmental Safety*, **2018**, 162, 218-224	7	8
28	Ecosystem services: from policy to practice. *Integrated Environmental Assessment and Management*, **2013**, 9, 211-3	2.5	8
27	Summary and recommendations from a SETAC Pellston Workshop on in situ measures of ecological effects. *Integrated Environmental Assessment and Management*, **2007**, 3, 275-8	2.5	8
26	Integrating life cycle assessment and environmental risk assessment: A critical review. *Journal of Cleaner Production*, **2021**, 293, 126120	10.3	8
25	Cross-species extrapolation of chemical sensitivity. *Science of the Total Environment*, **2021**, 753, 141800	10.2	8
24	An ecosystem services approach to pesticide risk assessment and risk management of non-target terrestrial plants: recommendations from a SETAC Europe workshop. *Environmental Science and Pollution Research*, **2015**, 22, 2350-5	5.1	7
23	A simple indoor artificial stream system designed to study the effects of toxicant pulses on aquatic organisms. *Water Research*, **1996**, 30, 285-290	12.5	7
22	The effects of motorway runoff on freshwater ecosystems: 2. Identifying major toxicants **1995**, 14, 1093		7
21	European water voles in a reconnected lowland river floodplain: habitat preferences and distribution patterns following the restoration of flooding. *Wetlands Ecology and Management*, **2014**, 22, 539-549	2.1	6
20	Mixture Extrapolation Approaches **2008**, 187-222		6
19	Evaluation of sensitivity and specificity of two crustacean biochemical biomarkers **2000**, 19, 2085		6
18	Conservation efforts of captive golden takin (Budorcas taxicolor bedfordi) are potentially compromised by the elevated chemical elements exposure. *Ecotoxicology and Environmental Safety*, **2017**, 143, 72-79	7	5
17	Phenological responses of ash (Fraxinus excelsior) and sycamore (Acer pseudoplatanus) to riparian thermal conditions. *Urban Forestry and Urban Greening*, **2016**, 16, 95-102	5.4	5
16	Multivariate analyses of invertebrate community responses to a C12-15 AE-3S anionic surfactant in stream mesocosms. *Aquatic Toxicology*, **2003**, 62, 105-17	5.1	5
15	Intraspecific Life-History Variation in Erpobdella octoculata (Hirudinea: Erpobdellidae). I. Field Study. *Journal of Animal Ecology*, **1986**, 55, 721	4.7	5
14	Applying ecosystem services for pre-market environmental risk assessments of regulated stressors. *EFSA Journal*, **2019**, 17, e170705	2.3	4
13	Spatial Extrapolation in Ecological Effect Assessment of Chemicals **2008**, 223-256		4
12	Toward a mechanistic understanding of contaminant-induced changes in detritus processing in streams: Direct and indirect effects on detritivore feeding **2000**, 19, 2100		4

11	Scope for growth in Gammarus pulex, a freshwater benthic detritivore **1989**, 517-523		4
10	Trace elements exposure of endangered crested ibis (Nipponia nippon) under in situ and ex situ conservations. *Environmental Pollution*, **2019**, 253, 800-810	9.3	3
9	Riparian thermal conditions across a mixed rural and urban landscape. *Applied Geography*, **2017**, 87, 106-114	4.1	3
8	Putting the ECO- into ECOtoxicology **1996**, 1-4		3
7	Assessing chemical risk within an ecosystem services framework: Implementation and added value. *Science of the Total Environment*, **2021**, 791, 148631	10.2	3
6	Impacts of hydrological restoration on lowland river floodplain plant communities. *Wetlands Ecology and Management*, **2020**, 28, 403-417	2.1	2
5	Sustaining industrial activity and ecological quality: the potential role of an ecosystem services approach	327-344	2
4	Comparison of tropical and temperate freshwater animal species' acute sensitivities to chemicals: Implications for deriving safe extrapolation factors **2007**, 3, 49		2
3	Heterogeneity in Ecosystem Service Values: Linking Public Perceptions and Environmental Policies. *Sustainability*, **2020**, 12, 1217	3.6	1
2	The use of ecological models to assess the effects of a plant protection product on ecosystem services provided by an orchard. *Science of the Total Environment*, **2021**, 798, 149329	10.2	1
1	Assessing the impact of episodic pollution **1989**, 633-640		