

Alain Geffard

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76
papers

1,173
citations

20
h-index

30
g-index

81
ext. papers

1,404
ext. citations

5.3
avg, IF

4.23
L-index

#	Paper	IF	Citations
76	Metallothionein concentration in the mussel <i>Mytilus galloprovincialis</i> as a biomarker of response to metal contamination: validation in the field. <i>Biomarkers</i> , 2002 , 7, 479-90	2.6	81
75	Ovarian cycle and embryonic development in <i>Gammarus fossarum</i> : application for reproductive toxicity assessment. <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 2249-59	3.8	73
74	Temporal variations of metallothionein and metal concentrations in the digestive gland of oysters (<i>Crassostrea gigas</i>) from a clean and a metal-rich site. <i>Biomarkers</i> , 2001 , 6, 91-107	2.6	71
73	Subcellular compartmentalization of cadmium, nickel, and lead in <i>Gammarus fossarum</i> : Comparison of methods. <i>Chemosphere</i> , 2010 , 78, 822-9	8.4	62
72	DNA damage in caged <i>Gammarus fossarum</i> amphipods: a tool for freshwater genotoxicity assessment. <i>Environmental Pollution</i> , 2011 , 159, 1682-91	9.3	56
71	Do seasonal changes affect metallothionein induction by metals in mussels, <i>Mytilus edulis</i> ?. <i>Ecotoxicology and Environmental Safety</i> , 2005 , 61, 209-20	7	55
70	Coupling of OECD standardized test and immunomarkers to select the most environmentally benign ionic liquids option—towards an innovative "safety by design" approach. <i>Journal of Hazardous Materials</i> , 2015 , 283, 202-10	12.8	40
69	Influence of molting and starvation on digestive enzyme activities and energy storage in <i>Gammarus fossarum</i> . <i>PLoS ONE</i> , 2014 , 9, e96393	3.7	31
68	Modelling copper bioaccumulation in <i>Gammarus pulex</i> and alterations of digestive metabolism. <i>Ecotoxicology</i> , 2012 , 21, 2022-30	2.9	30
67	Seasonal and PAH impact on DNA strand-break levels in gills of transplanted zebra mussels. <i>Ecotoxicology and Environmental Safety</i> , 2013 , 92, 18-26	7	28
66	Effects of chronic dietary and waterborne cadmium exposures on the contamination level and reproduction of <i>Daphnia magna</i> . <i>Environmental Toxicology and Chemistry</i> , 2008 , 27, 1128-34	3.8	27
65	Assessment of the health status of <i>Donax trunculus</i> from the Gulf of Tunis using integrative biomarker indices. <i>Ecological Indicators</i> , 2013 , 32, 285-293	5.8	25
64	Temporal changes in nickel and vanadium concentrations and in condition index and metallothionein levels in three species of molluscs following the Brikaïbil spill. <i>Aquatic Living Resources</i> , 2004 , 17, 281-288	1.5	25
63	Functional features of hemocyte subpopulations of the invasive mollusk species <i>Dreissena polymorpha</i> . <i>Fish and Shellfish Immunology</i> , 2016 , 56, 144-154	4.3	25
62	In situ effects of metal contamination from former uranium mining sites on the health of the three-spined stickleback (<i>Gasterosteus aculeatus</i> , L.). <i>Ecotoxicology</i> , 2016 , 25, 1234-59	2.9	24
61	Applications in environmental risk assessment of leucocyte apoptosis, necrosis and respiratory burst analysis on the European bullhead, <i>Cottus</i> sp. <i>Environmental Pollution</i> , 2014 , 184, 9-17	9.3	24
60	Development of a multi-residue analysis of diclofenac and some transformation products in bivalves using QuEChERS extraction and liquid chromatography-tandem mass spectrometry. Application to samples from mesocosm studies. <i>Talanta</i> , 2016 , 155, 1-7	6.2	23

59	The immune system of the freshwater zebra mussel, <i>Dreissena polymorpha</i> , decrypted by proteogenomics of hemocytes and plasma compartments. <i>Journal of Proteomics</i> , 2019 , 202, 103366	3.9	21
58	Mercury tissue residue approach in <i>Chironomus riparius</i> : Involvement of toxicokinetics and comparison of subcellular fractionation methods. <i>Aquatic Toxicology</i> , 2016 , 171, 1-8	5.1	21
57	Flow cytometry detection of lysosomal presence and lysosomal membrane integrity in the three-spined stickleback (<i>Gasterosteus aculeatus</i> L.) immune cells: applications in environmental aquatic immunotoxicology. <i>Environmental Science and Pollution Research</i> , 2013 , 20, 2692-704	5.1	20
56	Use of the bivalve <i>Dreissena polymorpha</i> as a biomonitoring tool to reflect the protozoan load in freshwater bodies. <i>Water Research</i> , 2020 , 170, 115297	12.5	19
55	Determination of carbamazepine and 12 degradation products in various compartments of an outdoor aquatic mesocosm by reliable analytical methods based on liquid chromatography-tandem mass spectrometry. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 16893-16904	5.1	17
54	Multi-biomarkers approach in different organs of <i>Anodonta cygnea</i> from the Dnister Basin (Ukraine). <i>Archives of Environmental Contamination and Toxicology</i> , 2009 , 57, 86-95	3.2	17
53	Effects of chronic exposure to cadmium and temperature, alone or combined, on the threespine stickleback (<i>Gasterosteus aculeatus</i>): Interest of digestive enzymes as biomarkers. <i>Aquatic Toxicology</i> , 2018 , 199, 252-262	5.1	16
52	Simultaneous effects of two fungicides (copper and dimethomorph) on their phytoremediation using <i>Lemna minor</i> . <i>Ecotoxicology</i> , 2013 , 22, 683-92	2.9	16
51	Acclimation capacity of the three-spined stickleback (<i>Gasterosteus aculeatus</i> , L.) to a sudden biological stress following a polymetallic exposure. <i>Ecotoxicology</i> , 2016 , 25, 1478-1499	2.9	16
50	Effects of a chronic exposure to different water temperatures and/or to an environmental cadmium concentration on the reproduction of the threespine stickleback (<i>Gasterosteus aculeatus</i>). <i>Ecotoxicology and Environmental Safety</i> , 2019 , 174, 48-57	7	15
49	Digestive enzymes and gut morphometric parameters of threespine stickleback (<i>Gasterosteus aculeatus</i>): Influence of body size and temperature. <i>PLoS ONE</i> , 2018 , 13, e0194932	3.7	14
48	Assessing the risk of metal mixtures in contaminated sediments on <i>Chironomus riparius</i> based on cytosolic accumulation. <i>Ecotoxicology and Environmental Safety</i> , 2008 , 71, 869-73	7	14
47	Consequences of lower food intake on the digestive enzymes activities, the energy reserves and the reproductive outcome in <i>Gammarus fossarum</i> . <i>PLoS ONE</i> , 2015 , 10, e0125154	3.7	14
46	Bioaccumulation of <i>Toxoplasma</i> and <i>Cryptosporidium</i> by the freshwater crustacean <i>Gammarus fossarum</i> : Involvement in biomonitoring surveys and trophic transfer. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 133, 188-94	7	12
45	Differential sensitivity to cadmium of immunomarkers measured in hemocyte subpopulations of zebra mussel <i>Dreissena polymorpha</i> . <i>Ecotoxicology and Environmental Safety</i> , 2017 , 137, 78-85	7	11
44	Procedures for leukocytes isolation from lymphoid tissues and consequences on immune endpoints used to evaluate fish immune status: A case study on roach (<i>Rutilus rutilus</i>). <i>Fish and Shellfish Immunology</i> , 2018 , 74, 190-204	4.3	11
43	Trophic transfer and effects of gold nanoparticles (AuNPs) in <i>Gammarus fossarum</i> from contaminated periphytic biofilm. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 11181-11191	5.1	11
42	Mechanistic models to perform population risk assessment with the midge <i>Chironomus riparius</i> : application to heavy metals. <i>Environmental Science & Technology</i> , 2006 , 40, 6026-31	10.3	11

41	Transcriptional response of stress-regulated genes to cadmium exposure in the cockle <i>Cerastoderma glaucum</i> from the gulf of Gabès area (Tunisia). <i>Environmental Science and Pollution Research</i> , 2015 , 22, 17290-302	5.1	10
40	In situ experiments to assess effects of constraints linked to caging on ecotoxicity biomarkers of the three-spined stickleback (<i>Gasterosteus aculeatus</i> L.). <i>Fish Physiology and Biochemistry</i> , 2016 , 42, 643-57	2.7	10
39	Genotoxic and Cytotoxic Effects on the Immune Cells of the Freshwater Bivalve <i>Dreissena polymorpha</i> Exposed to the Environmental Neurotoxin BMAA. <i>Toxins</i> , 2018 , 10,	4.9	10
38	Identification of immune-related proteins of <i>Dreissena polymorpha</i> hemocytes and plasma involved in host-microbe interactions by differential proteomics. <i>Scientific Reports</i> , 2020 , 10, 6226	4.9	9
37	Application of a multidisciplinary and integrative weight-of-evidence approach to a 1-year monitoring survey of the Seine River. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 23404-23429	5.1	9
36	An active biomonitoring approach using three-spined stickleback (<i>Gasterosteus aculeatus</i> , L.) to assess the efficiency of a constructed wetland as tertiary treatment of wastewater. <i>Ecological Indicators</i> , 2020 , 114, 106238	5.8	9
35	Impact of confinement and food access restriction on the three-spined stickleback (<i>Gasterosteus aculeatus</i> , L.) during caging: a multi-biomarker approach. <i>Fish Physiology and Biochemistry</i> , 2019 , 45, 1261-1276	2.7	8
34	The Zebra Mussel (<i>Dreissena polymorpha</i>) as a Model Organism for Ecotoxicological Studies: A Prior ¹ H NMR Spectrum Interpretation of a Whole Body Extract for Metabolism Monitoring. <i>Metabolites</i> , 2020 , 10,	5.6	8
33	A new protocol for the simultaneous flow cytometric analysis of cytotoxicity and immunotoxicity on zebra mussel (<i>Dreissena polymorpha</i>) hemocytes. <i>Fish and Shellfish Immunology</i> , 2020 , 98, 224-235	4.3	7
32	Comparative evaluation of loop-mediated isothermal amplification (LAMP) vs qPCR for detection of <i>Toxoplasma gondii</i> oocysts DNA in mussels. <i>Experimental Parasitology</i> , 2020 , 208, 107809	2.1	7
31	Effects of chronic exposure to a pharmaceutical mixture on the three-spined stickleback (<i>Gasterosteus aculeatus</i>) population dynamics in lotic mesocosms. <i>Aquatic Toxicology</i> , 2020 , 224, 105499	5.1	6
30	Use of sperm DNA integrity as a marker for exposure to contamination in <i>Palaemon serratus</i> (Pennant 1777): Intrinsic variability, baseline level and in situ deployment. <i>Water Research</i> , 2018 , 132, 124-134	12.5	6
29	Transcriptional response of stress-regulated genes to industrial effluent exposure in the cockle <i>Cerastoderma glaucum</i> . <i>Environmental Science and Pollution Research</i> , 2015 , 22, 17303-16	5.1	5
28	The endocrine-disrupting effect and other physiological responses of municipal effluent on the clam <i>Ruditapes decussatus</i> . <i>Environmental Science and Pollution Research</i> , 2015 , 22, 19716-28	5.1	5
27	Mussel as a Tool to Define Continental Watershed Quality 2017 ,		5
26	Assessment of sperm quality in palaemonid prawns using Comet assay: methodological optimization. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 11226-11237	5.1	5
25	Metal release from contaminated leaf litter and leachate toxicity for the freshwater crustacean <i>Gammarus fossarum</i> . <i>Environmental Science and Pollution Research</i> , 2018 , 25, 11281-11294	5.1	5
24	Involvement of fish immunomarkers in environmental biomonitoring approach: Urban and agri-viticultural context. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 120, 35-40	7	5

23	Comparison of viability and phagocytic responses of hemocytes withdrawn from the bivalves <i>Mytilus edulis</i> and <i>Dreissena polymorpha</i> , and exposed to human parasitic protozoa. <i>International Journal for Parasitology</i> , 2020 , 50, 75-83	4.3	5
22	From shotgun to targeted proteomics: rapid Scout-MRM assay development for monitoring potential immunomarkers in <i>Dreissena polymorpha</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 7333-7347	4.4	5
21	Juvenile roach (<i>Rutilus rutilus</i>) increase their anaerobic metabolism in response to copper exposure in laboratory conditions. <i>Ecotoxicology</i> , 2016 , 25, 900-13	2.9	5
20	First evidence of cytotoxic effects of human protozoan parasites on zebra mussel (<i>Dreissena polymorpha</i>) haemocytes. <i>Environmental Microbiology Reports</i> , 2019 , 11, 414-418	3.7	5
19	H-NMR metabolomics profiling of zebra mussel (<i>Dreissena polymorpha</i>): A field-scale monitoring tool in ecotoxicological studies. <i>Environmental Pollution</i> , 2021 , 270, 116048	9.3	5
18	Food Deprivation and Modulation of Hemocyte Activity in the Zebra Mussel (<i>Dreissena polymorpha</i>). <i>Journal of Shellfish Research</i> , 2015 , 34, 423-431	1	4
17	How the Neurotoxin β -Methylamino-L-Alanine Accumulates in Bivalves: Distribution of the Different Accumulation Fractions among Organs. <i>Toxins</i> , 2020 , 12,	4.9	4
16	First evidence of SARS-CoV-2 genome detection in zebra mussel (<i>Dreissena polymorpha</i>). <i>Journal of Environmental Management</i> , 2022 , 301, 113866	7.9	4
15	Assessment of sperm DNA integrity within the <i>Palaemon longirostris</i> (H.) population of the Seine estuary. <i>Environmental Pollution</i> , 2019 , 245, 485-493	9.3	4
14	Water quality of the Meuse watershed: Assessment using a multi-biomarker approach with caged three-spined stickleback (<i>Gasterosteus aculeatus</i> L.). <i>Ecotoxicology and Environmental Safety</i> , 2021 , 208, 111407	7	4
13	Free or Protein-Bound Microcystin Accumulation by Freshwater Bivalves as a Tool to Evaluate Water Contamination by Microcystin-Producing Cyanobacteria?. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3426	2.6	3
12	Determination of a new index of sexual maturity (ISM) in zebra mussel using flow cytometry: interest in ecotoxicology. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 11252-11263	5.1	3
11	Signification of DNA integrity in sperm of <i>Palaemon serratus</i> (Pennant 1777): Kinetic responses and reproduction impairment. <i>Marine Environmental Research</i> , 2019 , 144, 130-140	3.3	3
10	Mollusc Bivalves as Indicators of Contamination of Water Bodies by Protozoan Parasites 2019 , 443-448		3
9	Recommendations to design environmental monitoring in the European bullhead, <i>Cottus</i> sp., based on reproductive cycle and immunomarker measurement. <i>Marine Pollution Bulletin</i> , 2015 , 95, 576-81	6.7	2
8	Interest of a multispecies approach in active biomonitoring: Application in the Meuse watershed. <i>Science of the Total Environment</i> , 2021 , 152148	10.2	1
7	Cellular and molecular complementary immune stress markers for the model species <i>Dreissena polymorpha</i> . <i>Fish and Shellfish Immunology</i> , 2020 , 107, 452-462	4.3	0
6	Synthesis of New Betaine-Based Ionic Liquids by Using a One-Pot Amidation Process and Evaluation of Their Ecotoxicity through a New Method Involving a Hemocyte-Based Bioassay. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 15427-15441	8.3	0

5	Evaluation of real-time qPCR-based methods to detect the DNA of the three protozoan parasites <i>Cryptosporidium parvum</i> , <i>Giardia duodenalis</i> and <i>Toxoplasma gondii</i> in the tissue and hemolymph of blue mussels (<i>M. edulis</i>). <i>Food Microbiology</i> , 2022 , 102, 103870	6	o
4	Subcellular Distribution of Dietary Methyl-Mercury in and Its Impact on the Amphipod Proteome. <i>Environmental Science & Technology</i> , 2021 , 55, 10514-10523	10.3	o
3	An optimized LC-HRMS untargeted metabolomics workflow for multi-matrices investigations in the three-spined stickleback. <i>PLoS ONE</i> , 2021 , 16, e0260354	3.7	
2	The Utility of <i>Dreissena polymorpha</i> for Assessing the Viral Contamination of Rivers by Measuring the Accumulation of F-Specific RNA Bacteriophages. <i>Water (Switzerland)</i> , 2021 , 13, 904	3	
1	Virtual decoupling to break the simplification versus resolution trade-off in nuclear magnetic resonance of complex metabolic mixtures. <i>Magnetic Resonance</i> , 2021 , 2, 619-627	2.9	