

# Patrice Gonzalez

## List of Publications by Citations

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100  
papers

2,358  
citations

29  
h-index

43  
g-index

101  
ext. papers

2,605  
ext. citations

5.7  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
100	Comparative effects of direct cadmium contamination on gene expression in gills, liver, skeletal muscles and brain of the zebrafish ( <i>Danio rerio</i> ). <i>BioMetals</i> , <b>2006</b> , 19, 225-35	3.4	171
99	Cadmium-induced genotoxicity in zebrafish at environmentally relevant doses. <i>Ecotoxicology and Environmental Safety</i> , <b>2010</b> , 73, 312-9	7	78
98	Effect of low-dose cadmium exposure on DNA methylation in the endangered European eel. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 797-803	10.3	73
97	PAH biomarker responses in polar cod ( <i>Boreogadus saida</i> ) exposed to benzo(a)pyrene. <i>Aquatic Toxicology</i> , <b>2009</b> , 94, 309-19	5.1	72
96	Challenging the model for induction of metallothionein gene expression. <i>Biochimie</i> , <b>2006</b> , 88, 1787-92	4.6	71
95	Environmental concentrations of irgarol, diuron and S-metolachlor induce deleterious effects on gametes and embryos of the Pacific oyster, <i>Crassostrea gigas</i> . <i>Marine Environmental Research</i> , <b>2013</b> , 89, 1-8	3.3	64
94	Biomarker responses in polar cod ( <i>Boreogadus saida</i> ) exposed to the water soluble fraction of crude oil. <i>Aquatic Toxicology</i> , <b>2010</b> , 97, 234-42	5.1	61
93	Effects of copper and cadmium spiked-sediments on embryonic development of Japanese medaka ( <i>Oryzias latipes</i> ). <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 79, 272-282	7	54
92	Interactive effects of metal contamination and pathogenic organisms on the marine bivalve <i>Cerastoderma edule</i> . <i>Marine Pollution Bulletin</i> , <b>2010</b> , 60, 515-25	6.7	54
91	Cytochrome c oxidase subunit I gene is up-regulated by cadmium in freshwater and marine bivalves. <i>BioMetals</i> , <b>2006</b> , 19, 237-44	3.4	53
90	Phylogenetic relationships of <i>Pleurotus</i> species according to the sequence and secondary structure of the mitochondrial small-subunit rRNA V4, V6 and V9 domains. <i>Microbiology (United Kingdom)</i> , <b>2000</b> , 146 ( Pt 1), 209-221	2.9	53
89	Metallothionein response to cadmium and zinc exposures compared in two freshwater bivalves, <i>Dreissena polymorpha</i> and <i>Corbicula fluminea</i> . <i>BioMetals</i> , <b>2006</b> , 19, 399-407	3.4	52
88	Comparative analysis of gene expression in brain, liver, skeletal muscles, and gills of zebrafish ( <i>Danio rerio</i> ) exposed to environmentally relevant waterborne uranium concentrations. <i>Environmental Toxicology and Chemistry</i> , <b>2009</b> , 28, 1271-8	3.8	51
87	Effects of dietary methylmercury on the zebrafish brain: histological, mitochondrial, and gene transcription analyses. <i>BioMetals</i> , <b>2012</b> , 25, 165-80	3.4	50
86	How cadmium could compromise the completion of the European eel's reproductive migration. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 4607-12	10.3	50
85	Genotoxic and stress inductive potential of cadmium in <i>Xenopus laevis</i> larvae. <i>Aquatic Toxicology</i> , <b>2006</b> , 78, 157-66	5.1	48
84	Specific Pathways of Dietary Methylmercury and Inorganic Mercury Determined by Mercury Speciation and Isotopic Composition in Zebrafish ( <i>Danio rerio</i> ). <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 12984-93	10.3	47

83	Biomarker responses in polar cod ( <i>Boreogadus saida</i> ) exposed to dietary crude oil. <i>Aquatic Toxicology</i> , <b>2010</b> , 96, 77-83	5.1	45
82	Combined effects of pollutants and salinity on embryo-larval development of the Pacific oyster, <i>Crassostrea gigas</i> . <i>Marine Environmental Research</i> , <b>2016</b> , 113, 31-8	3.3	42
81	Metallothionein gene expression and protein levels in triploid and diploid oysters <i>Crassostrea gigas</i> after exposure to cadmium and zinc. <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 412-8	3.8	42
80	Specific Effects of Dietary Methylmercury and Inorganic Mercury in Zebrafish ( <i>Danio rerio</i> ) Determined by Genetic, Histological, and Metallothionein Responses. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 14560-9	10.3	40
79	Serial analysis of gene expression in the skeletal muscles of zebrafish fed with a methylmercury-contaminated diet. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 469-75	10.3	37
78	Mitochondrial gene expression, antioxidant responses, and histopathology after cadmium exposure. <i>Environmental Toxicology</i> , <b>2014</b> , 29, 893-907	4.2	35
77	Genotoxic damages in zebrafish submitted to a polymetallic gradient displayed by the Lot River (France). <i>Ecotoxicology and Environmental Safety</i> , <b>2011</b> , 74, 974-83	7	35
76	How life history contributes to stress response in the Manila clam <i>Ruditapes philippinarum</i> . <i>Environmental Science and Pollution Research</i> , <b>2010</b> , 17, 987-98	5.1	34
75	Bivalve population health: multistress to identify hot spots. <i>Marine Pollution Bulletin</i> , <b>2010</b> , 60, 1307-18	6.7	34
74	Common pattern of gene expression in response to hypoxia or cadmium in the gills of the European glass eel ( <i>Anguilla anguilla</i> ). <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 3005-11	10.3	32
73	Short-term metallothionein inductions in the edible cockle <i>Cerastoderma edule</i> after cadmium or mercury exposure: discrepancy between mRNA and protein responses. <i>Aquatic Toxicology</i> , <b>2010</b> , 97, 260-7	5.1	31
72	Interactive effects of metal contamination and pathogenic organisms on the introduced marine bivalve <i>Ruditapes philippinarum</i> in European populations. <i>Environmental Pollution</i> , <b>2010</b> , 158, 3401-10	9.3	29
71	Molecular analysis of the split <i>cox1</i> gene from the Basidiomycota <i>Agrocybe aegerita</i> : relationship of its introns with homologous Ascomycota introns and divergence levels from common ancestral copies. <i>Gene</i> , <b>1998</b> , 220, 45-53	3.8	28
70	Sublethal effects of waterborne uranium exposures on the zebrafish brain: transcriptional responses and alterations of the olfactory bulb ultrastructure. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 1438-43	10.3	27
69	Herbicide toxicity on river biofilms assessed by pulse amplitude modulated (PAM) fluorometry. <i>Aquatic Toxicology</i> , <b>2015</b> , 165, 160-71	5.1	25
68	Environmental effects of realistic pesticide mixtures on natural biofilm communities with different exposure histories. <i>Science of the Total Environment</i> , <b>2014</b> , 473-474, 496-506	10.2	24
67	Effects of uranium on crayfish <i>Procambarus clarkii</i> mitochondria and antioxidants responses after chronic exposure: what have we learned?. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 78, 218-24	7	24
66	Effects of dietary methylmercury on zebrafish skeletal muscle fibres. <i>Environmental Toxicology and Pharmacology</i> , <b>2008</b> , 25, 304-9	5.8	24

65	cDNA cloning and gene expression of ribosomal S9 protein gene in the mollusk <i>Corbicula fluminea</i> : a new potential biomarker of metal contamination up-regulated by cadmium and repressed by zinc. <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 527-33	3.8	23
64	Effect of dietary cadmium on lipid metabolism and storage of aquatic bird <i>Cairina moschata</i> . <i>Ecotoxicology</i> , <b>2010</b> , 19, 163-70	2.9	22
63	Sequence and secondary structure of the mitochondrial small-subunit rRNA V4, V6, and V9 domains reveal highly species-specific variations within the genus <i>Agrocybe</i> . <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 4149-60	4.8	22
62	Effects of uranium uptake on transcriptional responses, histological structures and survival rate of the crayfish <i>Procambarus clarkii</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>2011</b> , 74, 1800-7	7	21
61	Role of metallothioneins in superoxide radical generation during copper redox cycling: defining the fundamental function of metallothioneins. <i>Biochimie</i> , <b>2007</b> , 89, 1474-88	4.6	21
60	Metallothionein gene identification and expression in the cockle ( <i>Cerastoderma edule</i> ) under parasitism (trematodes) and cadmium contaminations. <i>Aquatic Living Resources</i> , <b>2007</b> , 20, 43-49	1.5	20
59	Combined effects of temperature and copper and S-metolachlor on embryo-larval development of the Pacific oyster, <i>Crassostrea gigas</i> . <i>Marine Pollution Bulletin</i> , <b>2017</b> , 115, 201-210	6.7	19
58	Thermal Reduction of Graphene Oxide Mitigates Its In Vivo Genotoxicity Toward <i>Xenopus laevis</i> Tadpoles. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	19
57	Brown muscle disease (BMD), an emergent pathology affecting Manila clam <i>Ruditapes philippinarum</i> in Arcachon Bay (SW France). <i>Diseases of Aquatic Organisms</i> , <b>2008</b> , 80, 219-28	1.7	19
56	Comparative responses of sperm cells and embryos of Pacific oyster ( <i>Crassostrea gigas</i> ) to exposure to metolachlor and its degradation products. <i>Aquatic Toxicology</i> , <b>2014</b> , 147, 48-56	5.1	18
55	Development of q-PCR approaches to assess water quality: effects of cadmium on gene expression of the diatom <i>Eolimna minima</i> . <i>Water Research</i> , <b>2012</b> , 46, 934-42	12.5	18
54	Are antioxidant and transcriptional responses useful for discriminating between chemo- and radiotoxicity of uranium in the crayfish <i>Procambarus clarkii</i> ?. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 80, 266-72	7	17
53	Impact of cadmium on aquatic bird <i>Cairina moschata</i> . <i>BioMetals</i> , <b>2009</b> , 22, 843-53	3.4	17
52	DNA sequence and secondary structure of the mitochondrial small subunit ribosomal RNA coding region including a group-IC2 intron from the cultivated basidiomycete <i>Agrocybe aegerita</i> . <i>Gene</i> , <b>1997</b> , 184, 55-63	3.8	17
51	Feeding mice with diets containing mercury-contaminated fish flesh from French Guiana: a model for the mercurial intoxication of the Wayana Amerindians. <i>Environmental Health</i> , <b>2008</b> , 7, 53	6	17
50	A glyphosate-based herbicide induces sub-lethal effects in early life stages and liver cell line of rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Aquatic Toxicology</i> , <b>2019</b> , 216, 105291	5.1	16
49	Transcriptomic responses of the endangered freshwater mussel <i>Margaritifera margaritifera</i> to trace metal contamination in the Dronne River, France. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 27145-27159	5.1	15
48	Molecular gene organisation and secondary structure of the mitochondrial large subunit ribosomal RNA from the cultivated Basidiomycota <i>Agrocybe aegerita</i> : a 13 kb gene possessing six unusual nucleotide extensions and eight introns. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 1754-61	20.1	15

47	Bacciger bacciger (Trematoda: Fellodistomidae) infection effects on wedge clam <i>Donax trunculus</i> condition. <i>Diseases of Aquatic Organisms</i> , <b>2014</b> , 111, 259-67	1.7	14
46	Why is Asari (=Manila) clam <i>Ruditapes philippinarum</i> fitness poor in Arcachon Bay: A meta-analysis to answer?. <i>Estuarine, Coastal and Shelf Science</i> , <b>2016</b> , 179, 226-235	2.9	13
45	Relative potency of PCB126 to TCDD for sublethal embryotoxicity in the mummichog ( <i>Fundulus heteroclitus</i> ). <i>Aquatic Toxicology</i> , <b>2013</b> , 128-129, 203-14	5.1	13
44	The use of Eugenol and electro-narcosis as anaesthetics: transcriptional impacts on the European eel ( <i>Anguilla anguilla</i> L.). <i>Ecotoxicology and Environmental Safety</i> , <b>2011</b> , 74, 1573-7	7	13
43	Whole-transcriptome response to wastewater treatment plant and stormwater effluents in the Asian clam, <i>Corbicula fluminea</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 165, 96-106	7	13
42	Impact of diuron and S-metolachlor on the freshwater diatom <i>Gomphonema gracile</i> : Complementarity between fatty acid profiles and different kinds of ecotoxicological impact-endpoints. <i>Science of the Total Environment</i> , <b>2019</b> , 688, 960-969	10.2	12
41	Transcriptional responses and embryotoxic effects induced by pyrene and methylpyrene in Japanese medaka ( <i>Oryzias latipes</i> ) early life stages exposed to spiked sediments. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 13850-66	5.1	12
40	Brown muscle disease: impact on Manila clam <i>Venerupis</i> (=Ruditapes) philippinarum biology. <i>Fish and Shellfish Immunology</i> , <b>2014</b> , 36, 510-8	4.3	12
39	Effects of dietary cadmium contamination on bird <i>Anas platyrhynchos</i> --comparison with species <i>Cairina moschata</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>2010</b> , 73, 2010-6	7	12
38	Effects of methylmercury contained in a diet mimicking the Wayana Amerindians contamination through fish consumption: mercury accumulation, metallothionein induction, gene expression variations, and role of the chemokine CCL2. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 7710-38	6.3	12
37	Trophic transfer and effects of gold nanoparticles (AuNPs) in <i>Gammarus fossarum</i> from contaminated periphytic biofilm. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 11181-11191	5.1	11
36	Environmentally relevant mixture of S-metolachlor and its two metabolites affects thyroid metabolism in zebrafish embryos. <i>Aquatic Toxicology</i> , <b>2020</b> , 221, 105444	5.1	10
35	Investigating the response of cuproproteins from oysters ( <i>Crassostrea gigas</i> ) after waterborne copper exposure by metallomic and proteomic approaches. <i>Metallomics</i> , <b>2014</b> , 6, 338-46	4.5	10
34	Cloning, characterization and gene expression of a metallothionein isoform in the edible cockle <i>Cerastoderma edule</i> after cadmium or mercury exposure. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 75, 119-26	7	10
33	Is the toxicity of pesticide mixtures on river biofilm accounted for solely by the major compounds identified?. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 4009-24	5.1	9
32	Spatial and seasonal variations of methylmercury in European glass eels ( <i>Anguilla anguilla</i> ) in the Adour estuary (France) and relation to their migratory behaviour. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 10721-32	5.1	9
31	Single and mixture effects of pesticides and a degradation product on fluvial biofilms. <i>Environmental Monitoring and Assessment</i> , <b>2014</b> , 186, 3931-9	3.1	9
30	Sub-lethal effects of waterborne copper in early developmental stages of rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 170, 778-788	7	9

29	Seasonal variation of transcriptomic and biochemical parameters of cockles ( <i>Cerastoderma edule</i> ) related to their infection by trematode parasites. <i>Journal of Invertebrate Pathology</i> , <b>2017</b> , 148, 73-80	2.6	8
28	Molecular and phenotypic responses of Japanese medaka ( <i>Oryzias latipes</i> ) early life stages to environmental concentrations of cadmium in sediment. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 17969-81	5.1	8
27	Migratory behavior, metabolism, oxidative stress and mercury concentrations in marine and estuarine European glass eels ( <i>Anguilla anguilla</i> ). <i>Physiology and Behavior</i> , <b>2017</b> , 169, 33-40	3.5	8
26	Mercury contamination levels in the bioindicator piscivorous fish <i>Hoplias aihara</i> in French Guiana rivers: mapping for risk assessment. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 3624-3636	5.1	8
25	An innovative and integrative assay for toxicity testing using individual fish embryos. Application to oxazepam. <i>Chemosphere</i> , <b>2017</b> , 181, 468-477	8.4	7
24	Transcriptomic response of the benthic freshwater diatom <i>Nitzschia palea</i> exposed to Few Layer Graphene. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1363-1381	7.1	7
23	Can pesticides, copper and seasonal water temperature explain the seagrass <i>Zostera noltei</i> decline in the Arcachon bay?. <i>Marine Pollution Bulletin</i> , <b>2018</b> , 134, 66-74	6.7	7
22	Assessment of swimming behavior of the Pacific oyster D-larvae ( <i>Crassostrea gigas</i> ) following exposure to model pollutants. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 3675-3685	5.1	7
21	Noise pollution limits metal bioaccumulation and growth rate in a filter feeder, the Pacific oyster <i>Magallana gigas</i> . <i>PLoS ONE</i> , <b>2018</b> , 13, e0194174	3.7	7
20	Do Temporal and Spatial Parameters or Lifestyle of the Pacific Oyster <i>Crassostrea gigas</i> Affect Pollutant Bioaccumulation, Offspring Development, and Tolerance to Pollutants?. <i>Frontiers in Marine Science</i> , <b>2017</b> , 4,	4.5	6
19	Transgenerational epigenetic sex determination: Environment experienced by female fish affects offspring sex ratio. <i>Environmental Pollution</i> , <b>2021</b> , 277, 116864	9.3	6
18	Sensitivity to cadmium of the endangered freshwater pearl mussel <i>Margaritifera margaritifera</i> from the Dronne River (France): experimental exposure. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 3715-3725	5.1	6
17	Health indicators and contaminant levels of a critically endangered species in the Gironde estuary, the European sturgeon. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 3726-3745	5.1	6
16	How toxic is the depleted uranium to crayfish <i>Procambarus clarkii</i> compared with cadmium?. <i>Environmental Toxicology</i> , <b>2016</b> , 31, 211-23	4.2	5
15	Omics in Aquatic Ecotoxicology: The Ultimate Response to Biological Questions? <b>2015</b> , 183-203		4
14	Methylmercury effects on migratory behaviour in glass eels ( <i>Anguilla anguilla</i> ): an experimental study using isotopic tracers. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2015</b> , 171, 15-27	3.2	4
13	Comparison of imidacloprid, propiconazole, and nanopropiconazole effects on the development, behavior, and gene expression biomarkers of the Pacific oyster ( <i>Magallana gigas</i> ). <i>Science of the Total Environment</i> , <b>2021</b> , 764, 142921	10.2	4
12	Do trace metal contamination and parasitism influence the activities of the bioturbating mud shrimp <i>Upogebia cf. pusilla</i> ?. <i>Aquatic Toxicology</i> , <b>2018</b> , 204, 46-58	5.1	4

11	A comprehensive study of the toxicity of natural multi-contaminated sediments: New insights brought by the use of a combined approach using the medaka embryo-larval assay and physico-chemical analyses. <i>Ecotoxicology and Environmental Safety</i> , <b>2017</b> , 142, 509-521	7	3
10	Seasonal variation of transcriptomic and biochemical parameters of <i>Donax trunculus</i> related to its infection by <i>Bacciger bacciger</i> (trematode parasite). <i>Estuarine, Coastal and Shelf Science</i> , <b>2019</b> , 219, 291-299	2.9	3
9	Parasite interactions in the bioturbator <i>Upogebia pusilla</i> (Decapoda: Gebiidae): a case of amensalism?. <i>Marine Biology</i> , <b>2017</b> , 164, 1	2.5	3
8	An environmentally realistic pesticide and copper mixture impacts embryonic development and DNA integrity of the Pacific oyster, <i>Crassostrea gigas</i> . <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 3600-3611	5.1	3
7	Influence of the bioturbator <i>Upogebia cf. pusilla</i> on trace metal remobilization: Does parasitism matter?. <i>Marine Environmental Research</i> , <b>2018</b> , 139, 87-98	3.3	2
6	Seasonal influence of parasitism on contamination patterns of the mud shrimp <i>Upogebia cf. pusilla</i> in an area of low pollution. <i>Science of the Total Environment</i> , <b>2019</b> , 692, 319-332	10.2	1
5	Pesticide mixture toxicity assessment through in situ and laboratory approaches using embryo-larval stages of the pacific oyster ( <i>Magallana gigas</i> ). <i>Marine Environmental Research</i> , <b>2021</b> , 169, 105390	3.3	1
4	Environmentally Relevant Mixture of Pesticides Affect Mobility and DNA Integrity of Early Life Stages of Rainbow Trout ( <i>O. mykiss</i> ). <i>Toxics</i> , <b>2021</b> , 9,	4.7	1
3	Hg concentrations and stable isotope variations in tropical fish species of a gold-mining-impacted watershed in French Guiana. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 60609-60621	5.1	0
2	Role of iron in gene expression and in the modulation of copper uptake in a freshwater alga: Insights on Cu and Fe assimilation pathways.. <i>Environmental Pollution</i> , <b>2022</b> , 119311	9.3	0
1	Cellular and molecular mechanisms of NiONPs toxicity on eel hepatocytes HEPA-E1: An illustration of the impact of Ni release from mining activity in New Caledonia. <i>Chemosphere</i> , <b>2022</b> , 303, 135158	8.4	0