

Arnaud Chaumot

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,692
citations

201674

27
h-index

144013

57
g-index

91
all docs

91
docs citations

91
times ranked

4885
citing authors

#	ARTICLE	IF	CITATIONS
1	The genome of the model beetle and pest <i>Tribolium castaneum</i> . <i>Nature</i> , 2008, 452, 949-955.	27.8	1,255
2	Unexpected Novel Relational Links Uncovered by Extensive Developmental Profiling of Nuclear Receptor Expression. <i>PLoS Genetics</i> , 2007, 3, e188.	3.5	188
3	Non-model organisms, a species endangered by proteogenomics. <i>Journal of Proteomics</i> , 2014, 105, 5-18.	2.4	145
4	Structural and functional characterization of a novel type of ligand-independent RXR-USP receptor. <i>EMBO Journal</i> , 2007, 26, 3770-3782.	7.8	120
5	Ovarian cycle and embryonic development in <i>Gammarus fossarum</i> : Application for reproductive toxicity assessment. <i>Environmental Toxicology and Chemistry</i> , 2010, 29, 2249-2259.	4.3	87
6	Caged <i>Gammarus fossarum</i> (Crustacea) as a robust tool for the characterization of bioavailable contamination levels in continental waters: Towards the determination of threshold values. <i>Water Research</i> , 2013, 47, 650-660.	11.3	87
7	Acetylcholinesterase activity in <i>Gammarus fossarum</i> (Crustacea Amphipoda). <i>Aquatic Toxicology</i> , 2009, 93, 225-233.	4.0	78
8	In situ feeding assay with <i>Gammarus fossarum</i> (Crustacea): Modelling the influence of confounding factors to improve water quality biomonitoring. <i>Water Research</i> , 2011, 45, 6417-6429.	11.3	78
9	Towards a renewed research agenda in ecotoxicology. <i>Environmental Pollution</i> , 2012, 160, 201-206.	7.5	78
10	Ecotoxicoproteomics: A decade of progress in our understanding of anthropogenic impact on the environment. <i>Journal of Proteomics</i> , 2019, 198, 66-77.	2.4	66
11	Annotation of <i>Tribolium</i> nuclear receptors reveals an increase in evolutionary rate of a network controlling the ecdysone cascade. <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 416-429.	2.7	56
12	Proteomic Investigation of Male <i>Gammarus fossarum</i> , a Freshwater Crustacean, in Response to Endocrine Disruptors. <i>Journal of Proteome Research</i> , 2015, 14, 292-303.	3.7	56
13	Next-Generation Proteomics: Toward Customized Biomarkers for Environmental Biomonitoring. <i>Environmental Science & Technology</i> , 2014, 48, 13560-13572.	10.0	52
14	Continental-scale patterns of hyper-cryptic diversity within the freshwater model taxon <i>Gammarus fossarum</i> (Crustacea, Amphipoda). <i>Scientific Reports</i> , 2020, 10, 16536.	3.3	51
15	Ecotoxicology and population dynamics: Using DEBtox models in a Leslie modeling approach. <i>Ecological Modelling</i> , 2005, 188, 30-40.	2.5	50
16	Proteogenomics of <i>Gammarus fossarum</i> to Document the Reproductive System of Amphipods. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 3612-3625.	3.8	50
17	Structural and Evolutionary Innovation of the Heterodimerization Interface between USP and the Ecdysone Receptor ECR in Insects. <i>Molecular Biology and Evolution</i> , 2009, 26, 753-768.	8.9	45
18	Conserved Features and Evolutionary Shifts of the EDA Signaling Pathway Involved in Vertebrate Skin Appendage Development. <i>Molecular Biology and Evolution</i> , 2008, 25, 912-928.	8.9	42

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19	Vitellogenin-like proteins in the freshwater amphipod <i>Gammarus fossarum</i> (Koch, 1835): Functional characterization throughout reproductive process, potential for use as an indicator of oocyte quality and endocrine disruption biomarker in males. <i>Aquatic Toxicology</i> , 2012, 112-113, 72-82.	4.0	39
20	Vitellogenin-like gene expression in freshwater amphipod <i>Gammarus fossarum</i> (Koch, 1835): functional characterization in females and potential for use as an endocrine disruption biomarker in males. <i>Ecotoxicology</i> , 2011, 20, 1286-1299.	2.4	38
21	Influence of Molting and Starvation on Digestive Enzyme Activities and Energy Storage in <i>Gammarus fossarum</i> . <i>PLoS ONE</i> , 2014, 9, e96393.	2.5	37
22	In situ isobaric lipid mapping by MALDI-ion mobility separation-mass spectrometry imaging. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4531.	1.6	35
23	Evolution of cadmium tolerance and associated costs in a <i>Gammarus fossarum</i> population inhabiting a low-level contaminated stream. <i>Ecotoxicology</i> , 2015, 24, 1239-1249.	2.4	32
24	Ecotoxic-Proteomics for Aquatic Environmental Monitoring: First in Situ Application of a New Proteomics-Based Multibiomarker Assay Using Caged Amphipods. <i>Environmental Science & Technology</i> , 2017, 51, 13417-13426.	10.0	32
25	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, 1128-1134.	4.3	30
26	Vitellogenin-like protein measurement in caged <i>Gammarus fossarum</i> males as a biomarker of endocrine disruptor exposure: Inconclusive experience. <i>Aquatic Toxicology</i> , 2012, 122-123, 9-18.	4.0	30
27	Proteogenomic insights into the core-proteome of female reproductive tissues from crustacean amphipods. <i>Journal of Proteomics</i> , 2016, 135, 51-61.	2.4	30
28	Validation of a two-generational reproduction test in <i>Daphnia magna</i> : An interlaboratory exercise. <i>Science of the Total Environment</i> , 2017, 579, 1073-1083.	8.0	29
29	Mass spectrometry assay as an alternative to the enzyme-linked immunosorbent assay test for biomarker quantitation in ecotoxicology: Application to vitellogenin in Crustacea (<i>Gammarus</i>) Tj ETQq1 1 0.7843147 BT / Overlock 10.1016/j.etox.2018.07.008	4.7	28
30	Biomarkers as tools for monitoring within the Water Framework Directive context: concept, opinions and advancement of expertise. <i>Environmental Science and Pollution Research</i> , 2019, 26, 32759-32763.	5.3	28
31	<i>Gammarids as Reference Species for Freshwater Monitoring.</i> , 2015, , 253-280.		27
32	Combined effects of drought and the fungicide tebuconazole on aquatic leaf litter decomposition. <i>Aquatic Toxicology</i> , 2016, 173, 120-131.	4.0	26
33	Caged <i>Gammarus</i> as biomonitors identifying thresholds of toxic metal bioavailability that affect gammarid densities at the French national scale. <i>Water Research</i> , 2017, 118, 131-140.	11.3	26
34	Food availability effect on population dynamics of the midge <i>Chironomus riparius</i> : a Leslie modeling approach. <i>Ecological Modelling</i> , 2004, 175, 217-229.	2.5	25
35	Impact of micropollutants on the life-history traits of the mosquito <i>Aedes aegypti</i> : On the relevance of transgenerational studies. <i>Environmental Pollution</i> , 2017, 220, 242-254.	7.5	24
36	De novo transcriptomes of 14 gammarid individuals for proteogenomic analysis of seven taxonomic groups. <i>Scientific Data</i> , 2019, 6, 184.	5.3	23

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37	Effect of water quality and confounding factors on digestive enzyme activities in <i>Gammarus fossarum</i> . <i>Environmental Science and Pollution Research</i> , 2013, 20, 9044-9056.	5.3	21
38	Multisubstance Indicators Based on Caged <i>Gammarus</i> Bioaccumulation Reveal the Influence of Chemical Contamination on Stream Macroinvertebrate Abundances across France. <i>Environmental Science & Technology</i> , 2019, 53, 5906-5915.	10.0	21
39	Combining proteogenomics and metaproteomics for deep taxonomic and functional characterization of microbiomes from a non-sequenced host. <i>Npj Biofilms and Microbiomes</i> , 2020, 6, 23.	6.4	20
40	Ecotoxicology and spatial modeling in population dynamics: An illustration with brown trout. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 958-969.	4.3	18
41	Do migratory or demographic disruptions rule the population impact of pollution in spatial networks?. <i>Theoretical Population Biology</i> , 2003, 64, 473-480.	1.1	18
42	Assessing the relevance of a multiplexed methodology for proteomic biomarker measurement in the invertebrate species <i>Gammarus fossarum</i> : A physiological and ecotoxicological study. <i>Aquatic Toxicology</i> , 2017, 190, 199-209.	4.0	18
43	Additive vs non-additive genetic components in lethal cadmium tolerance of <i>Gammarus</i> (Crustacea): Novel light on the assessment of the potential for adaptation to contamination. <i>Aquatic Toxicology</i> , 2009, 94, 294-299.	4.0	17
44	Linking feeding inhibition with reproductive impairment in <i>Gammarus</i> confirms the ecological relevance of feeding assays in environmental monitoring. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 1031-1038.	4.3	17
45	Multiplexed assay for protein quantitation in the invertebrate <i>Gammarus fossarum</i> by liquid chromatography coupled to tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3969-3991.	3.7	17
46	Ecological Modeling for the Extrapolation of Ecotoxicological Effects Measured during in Situ Assays in <i>Gammarus</i> . <i>Environmental Science & Technology</i> , 2014, 48, 6428-6436.	10.0	16
47	Environmental relevance of laboratory-derived kinetic models to predict trace metal bioaccumulation in gammarids: Field experimentation at a large spatial scale (France). <i>Water Research</i> , 2016, 95, 330-339.	11.3	16
48	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.	5.3	16
49	Interactive Effects of Pesticides and Nutrients on Microbial Communities Responsible of Litter Decomposition in Streams. <i>Frontiers in Microbiology</i> , 2018, 9, 2437.	3.5	16
50	Comparative proteomics in the wild: Accounting for intrapopulation variability improves describing proteome response in a <i>Gammarus pulex</i> field population exposed to cadmium. <i>Aquatic Toxicology</i> , 2019, 214, 105244.	4.0	16
51	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.	2.5	16
52	High-throughput proteome dynamics for discovery of key proteins in sentinel species: Unsuspected vitellogenins diversity in the crustacean <i>Gammarus fossarum</i> . <i>Journal of Proteomics</i> , 2016, 146, 207-214.	2.4	15
53	Shotgun lipidomics and mass spectrometry imaging unveil diversity and dynamics in <i>Gammarus fossarum</i> lipid composition. <i>IScience</i> , 2021, 24, 102115.	4.1	15
54	Interest of a multispecies approach in active biomonitoring: Application in the Meuse watershed. <i>Science of the Total Environment</i> , 2022, 808, 152148.	8.0	14

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55	Vitellogenin-like Proteins among Invertebrate Species Diversity: Potential of Proteomic Mass Spectrometry for Biomarker Development. <i>Environmental Science & Technology</i> , 2012, 46, 6315-6323.	10.0	13
56	Role of cellular compartmentalization in the trophic transfer of mercury species in a freshwater plant-crustacean food chain. <i>Journal of Hazardous Materials</i> , 2016, 320, 401-407.	12.4	13
57	Digging Deeper Into the Pyriproxyfen-Response of the Amphipod <i>Gammarus fossarum</i> With a Next-Generation Ultra-High-Field Orbitrap Analyser: New Perspectives for Environmental Toxicoproteomics. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	13
58	Co-expression network analysis identifies gonad- and embryo-associated protein modules in the sentinel species <i>Gammarus fossarum</i> . <i>Scientific Reports</i> , 2019, 9, 7862.	3.3	13
59	Molecular adaptation and resilience of the insect's nuclear receptor USP. <i>BMC Evolutionary Biology</i> , 2012, 12, 199.	3.2	12
60	Natural variability and modulation by environmental stressors of global genomic cytosine methylation levels in a freshwater crustacean, <i>Gammarus fossarum</i> . <i>Aquatic Toxicology</i> , 2018, 205, 11-18.	4.0	12
61	In Situ Reproductive Bioassay with Caged <i>Gammarus fossarum</i> (Crustacea): Part 1 "Gauging the Confounding Influence of Temperature and Water Hardness. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 667-677.	4.3	12
62	First step of a modeling approach to evaluate spatial heterogeneity in a fish (<i>Cottus gobio</i>) population dynamics. <i>Ecological Modelling</i> , 2006, 197, 263-273.	2.5	11
63	Matrix Population Models as Relevant Modeling Tools in Ecotoxicology. <i>Emerging Topics in Ecotoxicology</i> , 2009, , 261-298.	1.5	10
64	Comparison in waterborne Cu, Ni and Pb bioaccumulation kinetics between different gammarid species and populations: Natural variability and influence of metal exposure history. <i>Aquatic Toxicology</i> , 2017, 193, 245-255.	4.0	10
65	Use of sperm DNA integrity as a marker for exposure to contamination in <i>Palaemon serratus</i> (Pennant) Tj ETQq1 1 0.784314 rgBT /Overload	11.3	16
66	Nongenetic inheritance of increased Cd tolerance in a field <i>Gammarus fossarum</i> population: Parental exposure steers offspring sensitivity. <i>Aquatic Toxicology</i> , 2019, 209, 91-98.	4.0	10
67	High-multiplexed monitoring of protein biomarkers in the sentinel <i>Gammarus fossarum</i> by targeted scout-MRM assay, a new vision for ecotoxicoproteomics. <i>Journal of Proteomics</i> , 2020, 226, 103901.	2.4	10
68	Use of <i>Gammarus fossarum</i> (Amphipoda) embryo for toxicity testing: A case study with cadmium. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 2436-2443.	4.3	9
69	Additive effect of calcium depletion and low resource quality on <i>Gammarus fossarum</i> (Crustacea,) Tj ETQq1 1 0.784314 rgBT /Overload	5.3	9
70	In Situ Reproductive Bioassay with Caged <i>Gammarus fossarum</i> (Crustacea): Part 2 "Evaluating the Relevance of Using a Molt Cycle Temperature-Dependent Model as a Reference to Assess Toxicity in Freshwater Monitoring. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 678-691.	4.3	9
71	Co-expression network analysis identifies novel molecular pathways associated with cadmium and pyriproxyfen testicular toxicity in <i>Gammarus fossarum</i> . <i>Aquatic Toxicology</i> , 2021, 235, 105816.	4.0	9
72	Life-history phenology strongly influences population vulnerability to toxicants: A case study with the mudsnail <i>Potamopyrgus antipodarum</i> . <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 1727-1736.	4.3	7

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73	Osmoregulatory responses to cadmium in reference and historically metal contaminated <i>Gammarus fossarum</i> (Crustacea, Amphipoda) populations. <i>Chemosphere</i> , 2017, 180, 412-422.	8.2	7
74	Phenotypic defects in newborn <i>Gammarus fossarum</i> (Amphipoda) following embryonic exposure to fenoxycarb. <i>Ecotoxicology and Environmental Safety</i> , 2017, 144, 193-199.	6.0	7
75	Proteogenomics-Guided Evaluation of RNA-Seq Assembly and Protein Database Construction for Emergent Model Organisms. <i>Proteomics</i> , 2020, 20, e1900261.	2.2	7
76	Mothers and not genes determine inherited differences in cadmium sensitivities within unexposed populations of the freshwater crustacean <i>Gammarus fossarum</i> . <i>Evolutionary Applications</i> , 2016, 9, 355-366.	3.1	6
77	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.	7.5	6
78	How to quantify the links between bioavailable contamination in watercourses and pressures of anthropogenic land cover, contamination sources and hydromorphology at multiple scales?. <i>Science of the Total Environment</i> , 2020, 735, 139492.	8.0	5
79	Quantification of multi-scale links of anthropogenic pressures with PAH and PCB bioavailable contamination in French freshwaters. <i>Water Research</i> , 2021, 203, 117546.	11.3	5
80	Data for comparative proteomics of ovaries from five non-model, crustacean amphipods. <i>Data in Brief</i> , 2015, 5, 1-6.	1.0	4
81	Shotgun proteomics datasets acquired on <i>Gammarus pulex</i> animals sampled from the wild. <i>Data in Brief</i> , 2019, 27, 104650.	1.0	4
82	A Population Dynamics Perspective on the Delayed Life-History Effects of Environmental Contaminations: An Illustration with a Preliminary Study of Cadmium Transgenerational Effects over Three Generations in the Crustacean <i>Gammarus</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 4704.	4.1	4
83	Subcellular Distribution of Dietary Methyl-Mercury in <i>Gammarus fossarum</i> and Its Impact on the Amphipod Proteome. <i>Environmental Science & Technology</i> , 2021, 55, 10514-10523.	10.0	4
84	Ardèche Morcille in the Beaujolais, France: A research catchment dedicated to study of the transport and impacts of diffuse agricultural pollution in rivers. <i>Hydrological Processes</i> , 2021, 35, e14384.	2.6	3
85	On-Line Solid Phase Extraction Liquid Chromatography-Mass Spectrometry Method for Multiplexed Proteins Quantitation in an Ecotoxicology Test Specie: <i>Gammarus fossarum</i> . <i>Journal of Applied Bioanalysis</i> , 2018, 4, 81-101.	0.2	3
86	From Extrapolation to Precision Chemical Hazard Assessment: The Ecdysone Receptor Case Study. <i>Toxics</i> , 2022, 10, 6.	3.7	2
87	Metal bioavailable contamination engages richness decline, species turnover but unchanged functional diversity of stream macroinvertebrates at the scale of a French region. <i>Environmental Pollution</i> , 2022, 308, 119565.	7.5	2
88	Ovary and embryo proteogenomic dataset revealing diversity of vitellogenins in the crustacean <i>Gammarus fossarum</i> . <i>Data in Brief</i> , 2016, 8, 1259-1262.	1.0	1