

Arnaud Chaumot

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86
papers

2,873
citations

23
h-index

52
g-index

91
ext. papers

3,329
ext. citations

6.5
avg, IF

4.49
L-index

#	Paper	IF	Citations
86	The genome of the model beetle and pest <i>Tribolium castaneum</i> . <i>Nature</i> , 2008 , 452, 949-55	50.4	1043
85	Unexpected novel relational links uncovered by extensive developmental profiling of nuclear receptor expression. <i>PLoS Genetics</i> , 2007 , 3, e188	6	157
84	Non-model organisms, a species endangered by proteogenomics. <i>Journal of Proteomics</i> , 2014 , 105, 5-18	3.9	116
83	Structural and functional characterization of a novel type of ligand-independent RXR-USP receptor. <i>EMBO Journal</i> , 2007 , 26, 3770-82	13	107
82	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, 650-60	12.5	75
81	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
80	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, 6417-29	12.5	69
79	Acetylcholinesterase activity in <i>Gammarus fossarum</i> (Crustacea Amphipoda) Intrinsic variability, reference levels, and a reliable tool for field surveys. <i>Aquatic Toxicology</i> , 2009 , 93, 225-33	5.1	69
78	Towards a renewed research agenda in ecotoxicology. <i>Environmental Pollution</i> , 2012 , 160, 201-6	9.3	65
77	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, 416-29	4.5	47
76	Ecotoxicology and population dynamics: Using DEBtox models in a Leslie modeling approach. <i>Ecological Modelling</i> , 2005 , 188, 30-40	3	45
75	Proteogenomics of <i>Gammarus fossarum</i> to document the reproductive system of amphipods. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 3612-25	7.6	44
74	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	5.6	41
73	Next-generation proteomics: toward customized biomarkers for environmental biomonitoring. <i>Environmental Science & Technology</i> , 2014 , 48, 13560-72	10.3	41
72	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, 753-68	8.3	40
71	Ecotoxicoproteomics: A decade of progress in our understanding of anthropogenic impact on the environment. <i>Journal of Proteomics</i> , 2019 , 198, 66-77	3.9	40
70	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	5.1	37

69	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, 1286-99	2.9	34
68	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
67	Conserved features and evolutionary shifts of the EDA signaling pathway involved in vertebrate skin appendage development. <i>Molecular Biology and Evolution</i> , 2008 , 25, 912-28	8.3	30
66	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, 1239-49	2.9	28
65	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	5.1	27
64	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
63	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 fossarum</i>). <i>Journal of Chromatography A</i> , 2010 , 1217, 5109-15	4.5	23
62	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	12.5	21
61	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	3	21
60	Proteogenomic insights into the core-proteome of female reproductive tissues from crustacean amphipods. <i>Journal of Proteomics</i> , 2016 , 135, 51-61	3.9	20
59	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	10.3	20
58	Combined effects of drought and the fungicide tebuconazole on aquatic leaf litter decomposition. <i>Aquatic Toxicology</i> , 2016 , 173, 120-131	5.1	20
57	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	10.2	18
56	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	9.3	17
55	Ecotoxicology and spatial modeling in population dynamics: An illustration with brown trout. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 958-969	3.8	17
54	Do migratory or demographic disruptions rule the population impact of pollution in spatial networks?. <i>Theoretical Population Biology</i> , 2003 , 64, 473-80	1.2	17
53	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, 9044-56	5.1	16
52	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	4.9	16

51	In situ isobaric lipid mapping by MALDI-ion mobility separation-mass spectrometry imaging. <i>Journal of Mass Spectrometry</i> , 2020 , 55, e4531	2.2	15
50	Gammarids as Reference Species for Freshwater Monitoring 2015 , 253-280		14
49	High-throughput proteome dynamics for discovery of key proteins in sentinel species: Unsuspected vitellogenins diversity in the crustacean Gammarus fossarum. <i>Journal of Proteomics</i> , 2016 , 146, 207-14	3.9	14
48	Ecological modeling for the extrapolation of ecotoxicological effects measured during in situ assays in Gammarus. <i>Environmental Science & Technology</i> , 2014 , 48, 6428-36	10.3	14
47	Additive vs non-additive genetic components in lethal cadmium tolerance of Gammarus (Crustacea): novel light on the assessment of the potential for adaptation to contamination. <i>Aquatic Toxicology</i> , 2009 , 94, 294-9	5.1	14
46	Consequences of lower food intake on the digestive enzymes activities, the energy reserves and the reproductive outcome in Gammarus fossarum. <i>PLoS ONE</i> , 2015 , 10, e0125154	3.7	14
45	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, 330-9	12.5	13
44	De novo transcriptomes of 14 gammarid individuals for proteogenomic analysis of seven taxonomic groups. <i>Scientific Data</i> , 2019 , 6, 184	8.2	13
43	Assessing the relevance of a multiplexed methodology for proteomic biomarker measurement in the invertebrate species Gammarus fossarum: A physiological and ecotoxicological study. <i>Aquatic Toxicology</i> , 2017 , 190, 199-209	5.1	13
42	Linking feeding inhibition with reproductive impairment in Gammarus confirms the ecological relevance of feeding assays in environmental monitoring. <i>Environmental Toxicology and Chemistry</i> , 2015 , 34, 1031-8	3.8	12
41	Interactive Effects of Pesticides and Nutrients on Microbial Communities Responsible of Litter Decomposition in Streams. <i>Frontiers in Microbiology</i> , 2018 , 9, 2437	5.7	12
40	Multiplexed assay for protein quantitation in the invertebrate Gammarus fossarum by liquid chromatography coupled to tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 3969-3991	4.4	11
39	Multisubstance Indicators Based on Caged Gammarus Bioaccumulation Reveal the Influence of Chemical Contamination on Stream Macroinvertebrate Abundances across France. <i>Environmental Science & Technology</i> , 2019 , 53, 5906-5915	10.3	11
38	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	8.2	11
37	Vitellogenin-like proteins among invertebrate species diversity: potential of proteomic mass spectrometry for biomarker development. <i>Environmental Science & Technology</i> , 2012 , 46, 6315-23	10.3	11
36	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	12.8	11
35	First step of a modeling approach to evaluate spatial heterogeneity in a fish (Cottus gobio) population dynamics. <i>Ecological Modelling</i> , 2006 , 197, 263-273	3	10
34	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

33	Comparative proteomics in the wild: Accounting for intrapopulation variability improves describing proteome response in a Gammarus pulex field population exposed to cadmium. <i>Aquatic Toxicology</i> , 2019 , 214, 105244	5.1	9
32	Molecular adaptation and resilience of the insect nuclear receptor USP. <i>BMC Evolutionary Biology</i> , 2012 , 12, 199	3	9
31	Matrix Population Models as Relevant Modeling Tools in Ecotoxicology. <i>Emerging Topics in Ecotoxicology</i> , 2009 , 261-298		9
30	Co-expression network analysis identifies gonad- and embryo-associated protein modules in the sentinel species Gammarus fossarum. <i>Scientific Reports</i> , 2019 , 9, 7862	4.9	8
29	Digging Deeper Into the Pyriproxyfen-Response of the Amphipod Gammarus fossarum With a Next-Generation Ultra-High-Field Orbitrap Analyser: New Perspectives for Environmental Toxicoproteomics. <i>Frontiers in Environmental Science</i> , 2018 , 6,	4.8	8
28	Natural variability and modulation by environmental stressors of global genomic cytosine methylation levels in a freshwater crustacean, Gammarus fossarum. <i>Aquatic Toxicology</i> , 2018 , 205, 11-18 ^{5.1}		8
27	Additive effect of calcium depletion and low resource quality on Gammarus fossarum (Crustacea, Amphipoda) life history traits. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 11264-11280	5.1	7
26	Life-history phenology strongly influences population vulnerability to toxicants: a case study with the mudsnail Potamopyrgus antipodarum. <i>Environmental Toxicology and Chemistry</i> , 2013 , 32, 1727-36	3.8	7
25	Nongenetic inheritance of increased Cd tolerance in a field Gammarus fossarum population: Parental exposure steers offspring sensitivity. <i>Aquatic Toxicology</i> , 2019 , 209, 91-98	5.1	7
24	Phenotypic defects in newborn Gammarus fossarum (Amphipoda) following embryonic exposure to fenoxycarb. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 144, 193-199	7	6
23	Use of sperm DNA integrity as a marker for exposure to contamination in Palaemon serratus (Pennant 1777): Intrinsic variability, baseline level and in situ deployment. <i>Water Research</i> , 2018 , 132, 124-134	12.5	6
22	In Situ Reproductive Bioassay with Caged Gammarus fossarum (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	3.8	5
21	In Situ Reproductive Bioassay with Caged Gammarus fossarum (Crustacea): Part 1-Gauging the Confounding Influence of Temperature and Water Hardness. <i>Environmental Toxicology and Chemistry</i> , 2020 , 39, 667-677	3.8	4
20	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	5.1	4
19	Assessment of sperm DNA integrity within the Palaemon longirostris (H.) population of the Seine estuary. <i>Environmental Pollution</i> , 2019 , 245, 485-493	9.3	4
18	Use of Gammarus fossarum (Amphipoda) embryo for toxicity testing: A case study with cadmium. <i>Environmental Toxicology and Chemistry</i> , 2017 , 36, 2436-2443	3.8	3
17	Osmoregulatory responses to cadmium in reference and historically metal contaminated Gammarus fossarum (Crustacea, Amphipoda) populations. <i>Chemosphere</i> , 2017 , 180, 412-422	8.4	3
16	Shotgun proteomics datasets acquired on animals sampled from the wild. <i>Data in Brief</i> , 2019 , 27, 104650.2		3

15	Data for comparative proteomics of ovaries from five non-model, crustacean amphipods. <i>Data in Brief</i> , 2015 , 5, 1-6	1.2	3
14	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, 355-66	4.8	3
13	Shotgun lipidomics and mass spectrometry imaging unveil diversity and dynamics in lipid composition. <i>iScience</i> , 2021 , 24, 102115	6.1	3
12	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, 103909	3.9	2
11	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>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
10	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	1.3	2
9	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	5.1	2
8	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	10.2	1
7	Proteogenomics-Guided Evaluation of RNA-Seq Assembly and Protein Database Construction for Emergent Model Organisms. <i>Proteomics</i> , 2020 , 20, e1900261	4.8	1
6	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
5	Ovary and embryo proteogenomic dataset revealing diversity of vitellogenins in the crustacean <i>Gammarus fossarum</i> . <i>Data in Brief</i> , 2016 , 8, 1259-62	1.2	1
4	Quantification of multi-scale links of anthropogenic pressures with PAH and PCB bioavailable contamination in French freshwaters. <i>Water Research</i> , 2021 , 203, 117546	12.5	1
3	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	0
2	Ardiles-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	3.3	0
1	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 , 119565	9.3	