

# Helena Guasch

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94 papers	4,105 citations	40 h-index	62 g-index
96 ext. papers	4,491 ext. citations	5.3 avg, IF	5.03 L-index

#	Paper	IF	Citations
94	Response of stream ecosystem structure to heavy metal pollution: context-dependency of top-down control by fish. <i>Aquatic Sciences</i> , <b>2022</b> , 84, 1	2.5	0
93	Antioxidant system status in threatened native fish <i>Barbus meridionalis</i> from the Osor River (Iberian Peninsula): I. Characterization and II. In vitro Zn assays. <i>Environmental Toxicology and Pharmacology</i> , <b>2020</b> , 79, 103428	5.8	4
92	Size-related effects and the influence of metabolic traits and morphology on swimming performance in fish. <i>Environmental Epigenetics</i> , <b>2020</b> , 66, 493-503	2.4	8
91	A novel Cyphos IL 104-based polymer inclusion membrane (PIM) probe to mimic biofilm zinc accumulation. <i>Science of the Total Environment</i> , <b>2020</b> , 715, 136938	10.2	8
90	Biotic and Abiotic Factors Influencing Arsenic Biogeochemistry and Toxicity in Fluvial Ecosystems: A Review. <i>International Journal of Environmental Research and Public Health</i> , <b>2020</b> , 17,	4.6	15
89	Responses of resident (DNA) and active (RNA) microbial communities in fluvial biofilms under different polluted scenarios. <i>Chemosphere</i> , <b>2020</b> , 242, 125108	8.4	8
88	Water Flow and Light Availability Influence on Intracellular Geosmin Production in River Biofilms. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 3002	5.7	6
87	Structural and functional responses of periphyton and macroinvertebrate communities to ferric Fe, Cu, and Zn in stream mesocosms. <i>Environmental Toxicology and Chemistry</i> , <b>2018</b> , 37, 1320-1329	3.8	11
86	Mutual interaction between arsenic and biofilm in a mining impacted river. <i>Science of the Total Environment</i> , <b>2018</b> , 636, 985-998	10.2	12
85	Examining predictors of chemical toxicity in freshwater fish using the random forest technique. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 10172-10181	5.1	6
84	Combined effects of hydrologic alteration and cyprinid fish in mediating biogeochemical processes in a Mediterranean stream. <i>Science of the Total Environment</i> , <b>2017</b> , 601-602, 1217-1225	10.2	5
83	Microbial Biomarkers <b>2017</b> , 251-281		4
82	Short-term arsenic exposure reduces diatom cell size in biofilm communities. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 4257-70	5.1	25
81	Ecotoxicological risk assessment of chemical pollution in four Iberian river basins and its relationship with the aquatic macroinvertebrate community status. <i>Science of the Total Environment</i> , <b>2016</b> , 540, 324-33	10.2	61
80	Influence of grazing on triclosan toxicity to stream periphyton. <i>Freshwater Biology</i> , <b>2016</b> , 61, 2002-2012	3.1	17
79	Effects of low arsenic concentration exposure on freshwater fish in the presence of fluvial biofilms. <i>Science of the Total Environment</i> , <b>2016</b> , 544, 467-75	10.2	12
78	The Use of Biofilms to Assess the Effects of Chemicals on Freshwater Ecosystems <b>2016</b> , 125-144		2

77	Multiple-stressor effects on river biofilms under different hydrological conditions. <i>Freshwater Biology</i> , <b>2016</b> , 61, 2102-2115	3.1	34
76	Arsenic toxicity effects on microbial communities and nutrient cycling in indoor experimental channels mimicking a fluvial system. <i>Aquatic Toxicology</i> , <b>2015</b> , 166, 72-82	5.1	13
75	Cumulative Stressors Trigger Increased Vulnerability of Diatom Communities to Additional Disturbances. <i>Microbial Ecology</i> , <b>2015</b> , 70, 585-95	4.4	17
74	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
73	Effects of flow intermittency and pharmaceutical exposure on the structure and metabolism of stream biofilms. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 159-70	10.2	55
72	Pharmaceuticals and pesticides in reclaimed water: Efficiency assessment of a microfiltration-reverse osmosis (MF-RO) pilot plant. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 282, 165-73	12.8	87
71	Influence of the interaction between phosphate and arsenate on periphyton growth and its nutrient uptake capacity. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 122-32	10.2	27
70	Assessment of multi-chemical pollution in aquatic ecosystems using toxic units: compound prioritization, mixture characterization and relationships with biological descriptors. <i>Science of the Total Environment</i> , <b>2014</b> , 468-469, 715-23	10.2	71
69	Antioxidant enzyme activities in biofilms as biomarker of Zn pollution in a natural system: an active bio-monitoring study. <i>Ecotoxicology and Environmental Safety</i> , <b>2014</b> , 103, 82-90	7	21
68	Efficiency of cadmium chelation by phytochelatins in <i>Nitzschia palea</i> (Kütz.) W. Smith. <i>Ecotoxicology</i> , <b>2014</b> , 23, 285-92	2.9	31
67	Behavioural and physical effects of arsenic exposure in fish are aggravated by aquatic algae. <i>Aquatic Toxicology</i> , <b>2014</b> , 156, 116-24	5.1	22
66	Experimental evaluation of the contribution of acidic pH and Fe concentration to the structure, function and tolerance to metals (Cu and Zn) exposure in fluvial biofilms. <i>Ecotoxicology</i> , <b>2014</b> , 23, 1270-82 <sup>9</sup>	2.9	12
65	Trace metal concentration and fish size: variation among fish species in a Mediterranean river. <i>Ecotoxicology and Environmental Safety</i> , <b>2014</b> , 107, 154-61	7	87
64	Pollution-induced community tolerance to non-steroidal anti-inflammatory drugs (NSAIDs) in fluvial biofilm communities affected by WWTP effluents. <i>Chemosphere</i> , <b>2014</b> , 112, 185-93	8.4	57
63	Diatom responses to zinc contamination along a Mediterranean river. <i>Plant Ecology and Evolution</i> , <b>2014</b> , 147, 325-332	1.6	10
62	The use of antioxidant enzymes in freshwater biofilms: temporal variability vs. toxicological responses. <i>Aquatic Toxicology</i> , <b>2013</b> , 136-137, 60-71	5.1	11
61	Seasonal changes in antioxidant enzyme activities of freshwater biofilms in a metal polluted Mediterranean stream. <i>Science of the Total Environment</i> , <b>2013</b> , 444, 60-72	10.2	24
60	Drought episode modulates the response of river biofilms to triclosan. <i>Aquatic Toxicology</i> , <b>2013</b> , 127, 36-45	5.1	28

59	Light History Influences the Response of Fluvial Biofilms to Zn Exposure. <i>Journal of Phycology</i> , <b>2012</b> , 48, 1411-23	3	20
58	Changes in the microbial communities along the environmental gradient created by a small Fe spring. <i>Freshwater Science</i> , <b>2012</b> , 31, 599-609	2	13
57	Antioxidant enzyme activities as biomarkers of Zn pollution in fluvial biofilms. <i>Ecotoxicology and Environmental Safety</i> , <b>2012</b> , 80, 172-8	7	25
56	The effect of metals on photosynthesis processes and diatom metrics of biofilm from a metal-contaminated river: A translocation experiment. <i>Ecological Indicators</i> , <b>2012</b> , 18, 620-631	5.8	56
55	Consistency in Diatom Response to Metal-Contaminated Environments. <i>Handbook of Environmental Chemistry</i> , <b>2012</b> , 117-146	0.8	47
54	Advances in the Multibiomarker Approach for Risk Assessment in Aquatic Ecosystems. <i>Handbook of Environmental Chemistry</i> , <b>2012</b> , 147-179	0.8	7
53	Light history modulates antioxidant and photosynthetic responses of biofilms to both natural (light) and chemical (herbicides) stressors. <i>Ecotoxicology</i> , <b>2012</b> , 21, 1208-24	2.9	21
52	Establishing potential links between the presence of alkylphenolic compounds and the benthic community in a European river basin. <i>Environmental Science and Pollution Research</i> , <b>2012</b> , 19, 934-45	5.1	8
51	How to Link Field Observations with Causality? Field and Experimental Approaches Linking Chemical Pollution with Ecological Alterations. <i>Handbook of Environmental Chemistry</i> , <b>2012</b> , 181-218	0.8	9
50	The Use of Photosynthetic Fluorescence Parameters from Autotrophic Biofilms for Monitoring the Effect of Chemicals in River Ecosystems. <i>Handbook of Environmental Chemistry</i> , <b>2012</b> , 85-115	0.8	17
49	Combined scenarios of chemical and ecological quality under water scarcity in Mediterranean rivers. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2011</b> , 30, 1269-1278	14.6	82
48	Water toxicity assessment and spatial pollution patterns identification in a Mediterranean River Basin District. Tools for water management and risk analysis. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 4269-79	10.2	46
47	Are pharmaceuticals more harmful than other pollutants to aquatic invertebrate species: a hypothesis tested using multi-biomarker and multi-species responses in field collected and transplanted organisms. <i>Chemosphere</i> , <b>2011</b> , 85, 1548-54	8.4	41
46	Catalase in fluvial biofilms: a comparison between different extraction methods and example of application in a metal-polluted river. <i>Ecotoxicology</i> , <b>2011</b> , 20, 293-303	2.9	19
45	In situ spatio-temporal changes in pollution-induced community tolerance to zinc in autotrophic and heterotrophic biofilm communities. <i>Ecotoxicology</i> , <b>2011</b> , 20, 1823-39	2.9	54
44	Chl-a fluorescence parameters as biomarkers of metal toxicity in fluvial biofilms: an experimental study. <i>Hydrobiologia</i> , <b>2011</b> , 673, 119-136	2.4	46
43	Metal Ecotoxicology in Fluvial Biofilms: Potential Influence of Water Scarcity. <i>Handbook of Environmental Chemistry</i> , <b>2010</b> , 41-53	0.8	15
42	Fluvial biofilms: A pertinent tool to assess beta-blockers toxicity. <i>Aquatic Toxicology</i> , <b>2010</b> , 96, 225-33	5.1	61

41	Triclosan persistence through wastewater treatment plants and its potential toxic effects on river biofilms. <i>Aquatic Toxicology</i> , <b>2010</b> , 100, 346-53	5.1	134
40	Does grazing pressure modify diuron toxicity in a biofilm community?. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2010</b> , 58, 955-62	3.2	32
39	Discharge and the response of biofilms to metal exposure in Mediterranean rivers. <i>Hydrobiologia</i> , <b>2010</b> , 657, 143-157	2.4	28
38	Influence of phosphorus on copper sensitivity of fluvial periphyton: the role of chemical, physiological and community-related factors. <i>Ecotoxicology</i> , <b>2010</b> , 19, 770-80	2.9	67
37	Primary and complex stressors in polluted mediterranean rivers: Pesticide effects on biological communities. <i>Journal of Hydrology</i> , <b>2010</b> , 383, 52-61	6	130
36	Discharge and the response of biofilms to metal exposure in Mediterranean rivers <b>2010</b> , 143-157		
35	Measuring in-stream retention of copper by means of constant-rate additions. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 3847-54	10.2	15
34	Effects of chronic copper exposure on fluvial systems: linking structural and physiological changes of fluvial biofilms with the in-stream copper retention. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 5274-82	10.2	41
33	Effects of sediment deposition on periphytic biomass, photosynthetic activity and algal community structure. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 5694-700	10.2	65
32	Use of multivariate analyses to investigate the contribution of metal pollution to diatom species composition: search for the most appropriate cases and explanatory variables. <i>Hydrobiologia</i> , <b>2009</b> , 627, 143-158	2.4	36
31	Is chemical contamination linked to the diversity of biological communities in rivers?. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2009</b> , 28, 592-602	14.6	34
30	The relevance of the community approach linking chemical and biological analyses in pollution assessment. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2009</b> , 28, 619-626	14.6	39
29	Bridging levels of pharmaceuticals in river water with biological community structure in the Llobregat River basin (northeast Spain). <i>Environmental Toxicology and Chemistry</i> , <b>2009</b> , 28, 2706-14	3.8	155
28	Effects of low concentrations of the phenylurea herbicide diuron on biofilm algae and bacteria. <i>Chemosphere</i> , <b>2009</b> , 76, 1392-401	8.4	110
27	Monitoring the effect of chemicals on biological communities. The biofilm as an interface. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 387, 1425-34	4.4	268
26	Influence of phosphate on the response of periphyton to atrazine exposure. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2007</b> , 52, 32-7	3.2	30
25	Comparing the response of biochemical indicators (biomarkers) and biological indices to diagnose the ecological impact of an oil spillage in a Mediterranean river (NE Catalunya, Spain). <i>Chemosphere</i> , <b>2007</b> , 66, 1206-16	8.4	43
24	Assessing the ecological integrity after nutrient inputs in streams: The relevance of the observation scale. <i>Aquatic Ecosystem Health and Management</i> , <b>2005</b> , 8, 397-403	1.4	2

23	Phosphate limitation influences the sensitivity to copper in periphytic algae. <i>Freshwater Biology</i> , <b>2004</b> , 49, 463-473	3.1	60
22	Ecological factors that co-occur with geosmin production by benthic cyanobacteria. The case of the Llobregat River. <i>Algological Studies</i> , <b>2003</b> , 109, 579-592		6
21	STRUCTURE AND FUNCTION OF BENTHIC ALGAL COMMUNITIES IN AN EXTREMELY ACID RIVER1. <i>Journal of Phycology</i> , <b>2003</b> , 39, 481-489	3	77
20	The effect of copper exposure on a simple aquatic food chain. <i>Aquatic Toxicology</i> , <b>2003</b> , 63, 283-91	5.1	46
19	Contrasting effects of organic and inorganic toxicants on freshwater periphyton. <i>Aquatic Toxicology</i> , <b>2003</b> , 64, 165-75	5.1	82
18	EFFECT OF COPPER ON ALGAL COMMUNITIES FROM OLIGOTROPHIC CALCAREOUS STREAMS1. <i>Journal of Phycology</i> , <b>2002</b> , 38, 241-248	3	57
17	Use of microbenthic algal communities in ecotoxicological tests for the assessment of water quality: the Ter river case study. <i>Journal of Applied Phycology</i> , <b>2002</b> , 14, 41-48	3.2	41
16	The effect of biological factors on the efficiency of river biofilms in improving water quality. <i>Hydrobiologia</i> , <b>2002</b> , 469, 149-156	2.4	105
15	Effects of copper on algal communities at different current velocities. <i>Journal of Applied Phycology</i> , <b>2002</b> , 14, 391-398	3.2	26
14	Effects of atrazine on periphyton under grazing pressure. <i>Aquatic Toxicology</i> , <b>2001</b> , 55, 239-49	5.1	59
13	Differences in the sensitivity of benthic microalgae to ZN and CD regarding biofilm development and exposure history. <i>Environmental Toxicology and Chemistry</i> , <b>2000</b> , 19, 1332-1339	3.8	102
12	Stromatolitic communities in Mediterranean streams: adaptations to a changing environment. <i>Biodiversity and Conservation</i> , <b>2000</b> , 9, 379-392	3.4	16
11	Differences in the sensitivity of benthic microalgae to ZN and CD regarding biofilm development and exposure history <b>2000</b> , 19, 1332		6
10	Short-term toxicity of zinc to microbenthic algae and bacteria in a metal polluted stream. <i>Water Research</i> , <b>1999</b> , 33, 1989-1996	12.5	111
9	Recommendations for the routine sampling of diatoms for water quality assessments in Europe. <i>Journal of Applied Phycology</i> , <b>1998</b> , 10, 215-224	3.2	286
8	Community composition and sensitivity of periphyton to atrazine in flowing waters: the role of environmental factors. <i>Journal of Applied Phycology</i> , <b>1998</b> , 10, 203-213	3.2	67
7	LIGHT HISTORY INFLUENCES THE SENSITIVITY TO ATRAZINE IN PERIPHYTIC ALGAE. <i>Journal of Phycology</i> , <b>1998</b> , 34, 233-241	3	82
6	Diurnal variation in dissolved oxygen and carbon dioxide in two low-order streams. <i>Water Research</i> , <b>1998</b> , 32, 1067-1074	12.5	45

5	Estimation of the annual primary production of stream epilithic biofilms based on photosynthesis-irradiance relations. <i>Fundamental and Applied Limnology</i> , <b>1998</b> , 141, 469-481	1.9	5
4	Changes in atrazine toxicity throughout succession of stream periphyton communities. <i>Journal of Applied Phycology</i> , <b>1997</b> , 9, 137-146	3.2	51
3	Nutrient enrichment effects on biofilm metabolism in a Mediterranean stream. <i>Freshwater Biology</i> , <b>1995</b> , 33, 373-383	3.1	55
2	SEASONAL VARIATIONS IN PHOTOSYNTHESIS-IRRADIANCE RESPONSES BY BIOFILMS IN MEDITERRANEAN STREAMS. <i>Journal of Phycology</i> , <b>1995</b> , 31, 727-735	3	63
1	The role of drought in the impact of climatic change on the microbiota of peatland streams. <i>Freshwater Biology</i> , <b>1994</b> , 32, 223-230	3.1	21