Helena Guasch

List of Publications by Year
in descending order

96	5,032	76326	95266
papers	citations	40 h-index	68 g-index

96	96	96	4504
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impacts of damming and climate change on the ecosystem structure of headwater streams: a case study from the Pyrenees. Inland Waters, 2022, 12, 434-450.	2.2	3
2	Response of stream ecosystem structure to heavy metal pollution: context-dependency of top-down control by fish. Aquatic Sciences, 2022, 84, 1.	1.5	5
3	Interactions between microplastics and benthic biofilms in fluvial ecosystems: Knowledge gaps and future trends. Freshwater Science, 2022, 41, 442-458.	1.8	10
4	Responses of resident (DNA) and active (RNA) microbial communities in fluvial biofilms under different polluted scenarios. Chemosphere, 2020, 242, 125108.	8.2	16
5	Antioxidant system status in threatened native fish Barbus meridionalis from the Osor River (Iberian) Tj ETQq1 1 0.784314 rgBT /Over 2020, 79, 103428.	4.0	8
6	Size-related effects and the influence of metabolic traits and morphology on swimming performance in fish. Environmental Epigenetics, 2020, 66, 493-503.	1.8	25
7	A novel Cyphos IL 104-based polymer inclusion membrane (PIM) probe to mimic biofilm zinc accumulation. Science of the Total Environment, 2020, 715, 136938.	8.0	14
8	Biotic and Abiotic Factors Influencing Arsenic Biogeochemistry and Toxicity in Fluvial Ecosystems: A Review. International Journal of Environmental Research and Public Health, 2020, 17, 2331.	2.6	37
9	Water Flow and Light Availability Influence on Intracellular Geosmin Production in River Biofilms. Frontiers in Microbiology, 2019, 10, 3002.	3.5	9
10	Structural and functional responses of periphyton and macroinvertebrate communities to ferric Fe, Cu, and Zn in stream mesocosms. Environmental Toxicology and Chemistry, 2018, 37, 1320-1329.	4.3	15
11	Mutual interaction between arsenic and biofilm in a mining impacted river. Science of the Total Environment, 2018, 636, 985-998.	8.0	17
12	Examining predictors of chemical toxicity in freshwater fish using the random forest technique. Environmental Science and Pollution Research, 2017, 24, 10172-10181.	5.3	13
13	Combined effects of hydrologic alteration and cyprinid fish in mediating biogeochemical processes in a Mediterranean stream. Science of the Total Environment, 2017, 601-602, 1217-1225.	8.0	6
14	Microbial Biomarkers. , 2017, , 251-281.		7
15	Multipleâ€stressor effects on river biofilms under different hydrological conditions. Freshwater Biology, 2016, 61, 2102-2115.	2.4	43
16	Influence of grazing on triclosan toxicity to stream periphyton. Freshwater Biology, 2016, 61, 2002-2012.	2.4	25
17	Effects of low arsenic concentration exposure on freshwater fish in the presence of fluvial biofilms. Science of the Total Environment, 2016, 544, 467-475.	8.0	15
18	Short-term arsenic exposure reduces diatom cell size in biofilm communities. Environmental Science and Pollution Research, 2016, 23, 4257-4270.	5.3	31

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19	Ecotoxicological risk assessment of chemical pollution in four Iberian river basins and its relationship with the aquatic macroinvertebrate community status. Science of the Total Environment, 2016, 540, 324-333.	8.0	71
20	The Use of Biofilms to Assess the Effects of Chemicals on Freshwater Ecosystems. , 2016, , 125-144.		6
21	Arsenic toxicity effects on microbial communities and nutrient cycling in indoor experimental channels mimicking a fluvial system. Aquatic Toxicology, 2015, 166, 72-82.	4.0	23
22	Cumulative Stressors Trigger Increased Vulnerability of Diatom Communities to Additional Disturbances. Microbial Ecology, 2015, 70, 585-595.	2.8	25
23	Is the toxicity of pesticide mixtures on river biofilm accounted for solely by the major compounds identified?. Environmental Science and Pollution Research, 2015, 22, 4009-4024.	5.3	11
24	Effects of flow intermittency and pharmaceutical exposure on the structure and metabolism of stream biofilms. Science of the Total Environment, 2015, 503-504, 159-170.	8.0	76
25	Pharmaceuticals and pesticides in reclaimed water: Efficiency assessment of a microfiltrationâ€“reverse osmosis (MFâ€“RO) pilot plant. Journal of Hazardous Materials, 2015, 282, 165-173.	12.4	110
26	Influence of the interaction between phosphate and arsenate on periphyton's growth and its nutrient uptake capacity. Science of the Total Environment, 2015, 503-504, 122-132.	8.0	38
27	Diatom responses to zinc contamination along a Mediterranean river. Plant Ecology and Evolution, 2014, 147, 325-332.	0.7	13
28	Assessment of multi-chemical pollution in aquatic ecosystems using toxic units: Compound prioritization, mixture characterization and relationships with biological descriptors. Science of the Total Environment, 2014, 468-469, 715-723.	8.0	92
29	Antioxidant enzyme activities in biofilms as biomarker of Zn pollution in a natural system: An active bio-monitoring study. Ecotoxicology and Environmental Safety, 2014, 103, 82-90.	6.0	27
30	Efficiency of cadmium chelation by phytochelatins in Nitzschia palea (KÃ¼tzing) W. Smith. Ecotoxicology, 2014, 23, 285-292.	2.4	35
31	Behavioural and physical effects of arsenic exposure in fish are aggravated by aquatic algae. Aquatic Toxicology, 2014, 156, 116-124.	4.0	29
32	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. Ecotoxicology, 2014, 23, 1270-1282.	2.4	14
33	Trace metal concentration and fish size: Variation among fish species in a Mediterranean river. Ecotoxicology and Environmental Safety, 2014, 107, 154-161.	6.0	120
34	Pollution-induced community tolerance to non-steroidal anti-inflammatory drugs (NSAIDs) in fluvial biofilm communities affected by WWTP effluents. Chemosphere, 2014, 112, 185-193.	8.2	80
35	The use of antioxidant enzymes in freshwater biofilms: Temporal variability vs. toxicological responses. Aquatic Toxicology, 2013, 136-137, 60-71.	4.0	11
36	Seasonal changes in antioxidant enzyme activities of freshwater biofilms in a metal polluted Mediterranean stream. Science of the Total Environment, 2013, 444, 60-72.	8.0	32

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37	Drought episode modulates the response of river biofilms to triclosan. Aquatic Toxicology, 2013, 127, 36-45.	4.0	33
38	How to Link Field Observations with Causality? Field and Experimental Approaches Linking Chemical Pollution with Ecological Alterations. Handbook of Environmental Chemistry, 2012, , 181-218.	0.4	9
39	Light History Influences the Response of Fluvial Biofilms to <scp><scp>Zn</scp></scp> Exposure. Journal of Phycology, 2012, 48, 1411-1423.	2.3	26
40	Changes in the microbial communities along the environmental gradient created by a small Fe spring. Freshwater Science, 2012, 31, 599-609.	1.8	14
41	Antioxidant enzyme activities as biomarkers of Zn pollution in fluvial biofilms. Ecotoxicology and Environmental Safety, 2012, 80, 172-178.	6.0	28
42	The effect of metals on photosynthesis processes and diatom metrics of biofilm from a metal-contaminated river: A translocation experiment. Ecological Indicators, 2012, 18, 620-631.	6.3	64
43	Consistency in Diatom Response to Metal-Contaminated Environments. Handbook of Environmental Chemistry, 2012, , 117-146.	0.4	59
44	Advances in the Multibiomarker Approach for Risk Assessment in Aquatic Ecosystems. Handbook of Environmental Chemistry, 2012, , 147-179.	0.4	11
45	Light history modulates antioxidant and photosynthetic responses of biofilms to both natural (light) and chemical (herbicides) stressors. Ecotoxicology, 2012, 21, 1208-1224.	2.4	25
46	Establishing potential links between the presence of alkylphenolic compounds and the benthic community in a European river basin. Environmental Science and Pollution Research, 2012, 19, 934-945.	5.3	8
47	The Use of Photosynthetic Fluorescence Parameters from Autotrophic Biofilms for Monitoring the Effect of Chemicals in River Ecosystems. Handbook of Environmental Chemistry, 2012, , 85-115.	0.4	20
48	Combined scenarios of chemical and ecological quality under water scarcity in Mediterranean rivers. TrAC - Trends in Analytical Chemistry, 2011, 30, 1269-1278.	11.4	91
49	Water toxicity assessment and spatial pollution patterns identification in a Mediterranean River Basin District. Tools for water management and risk analysis. Science of the Total Environment, 2011, 409, 4269-4279.	8.0	66
50	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. Chemosphere, 2011, 85, 1548-1554.	8.2	46
51	Catalase in fluvial biofilms: a comparison between different extraction methods and example of application in a metal-polluted river. Ecotoxicology, 2011, 20, 293-303.	2.4	21
52	In situ spatio-temporal changes in pollution-induced community tolerance to zinc in autotrophic and heterotrophic biofilm communities. Ecotoxicology, 2011, 20, 1823-1839.	2.4	69
53	Chl-a fluorescence parameters as biomarkers of metal toxicity in fluvial biofilms: an experimental study. Hydrobiologia, 2011, 673, 119-136.	2.0	55
54	Does Grazing Pressure Modify Diuron Toxicity in a Biofilm Community?. Archives of Environmental Contamination and Toxicology, 2010, 58, 955-962.	4.1	37

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55	Discharge and the response of biofilms to metal exposure in Mediterranean rivers. Hydrobiologia, 2010, 657, 143-157.	2.0	29
56	Influence of phosphorus on copper sensitivity of fluvial periphyton: the role of chemical, physiological and community-related factors. Ecotoxicology, 2010, 19, 770-780.	2.4	82
57	Primary and complex stressors in polluted mediterranean rivers: Pesticide effects on biological communities. Journal of Hydrology, 2010, 383, 52-61.	5.4	138
58	Metal Ecotoxicology in Fluvial Biofilms: Potential Influence of Water Scarcity. Handbook of Environmental Chemistry, 2010, , 41-53.	0.4	17
59	Fluvial biofilms: A pertinent tool to assess Î²-blockers toxicity. Aquatic Toxicology, 2010, 96, 225-233.	4.0	64
60	Triclosan persistence through wastewater treatment plants and its potential toxic effects on river biofilms. Aquatic Toxicology, 2010, 100, 346-353.	4.0	149
61	Discharge and the response of biofilms to metal exposure in Mediterranean rivers. , 2010, , 143-157.		0
62	Measuring in-stream retention of copper by means of constant-rate additions. Science of the Total Environment, 2009, 407, 3847-3854.	8.0	17
63	Effects of chronic copper exposure on fluvial systems: Linking structural and physiological changes of fluvial biofilms with the in-stream copper retention. Science of the Total Environment, 2009, 407, 5274-5282.	8.0	48
64	Effects of sediment deposition on periphytic biomass, photosynthetic activity and algal community structure. Science of the Total Environment, 2009, 407, 5694-5700.	8.0	83
65	Use of multivariate analyses to investigate the contribution of metal pollution to diatom species composition: search for the most appropriate cases and explanatory variables. Hydrobiologia, 2009, 627, 143-158.	2.0	38
66	Is chemical contamination linked to the diversity of biological communities in rivers?. TrAC - Trends in Analytical Chemistry, 2009, 28, 592-602.	11.4	38
67	The relevance of the community approach linking chemical and biological analyses in pollution assessment. TrAC - Trends in Analytical Chemistry, 2009, 28, 619-626.	11.4	40
68	Bridging levels of pharmaceuticals in river water with biological community structure in the llobregat river basin (northeast spain). Environmental Toxicology and Chemistry, 2009, 28, 2706-2714.	4.3	166
69	Effects of low concentrations of the phenylurea herbicide diuron on biofilm algae and bacteria. Chemosphere, 2009, 76, 1392-1401.	8.2	131
70	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). Chemosphere, 2007, 66, 1206-1216.	8.2	46
71	Monitoring the effect of chemicals on biological communities. The biofilm as an interface. Analytical and Bioanalytical Chemistry, 2007, 387, 1425-1434.	3.7	341
72	Influence of Phosphate on the Response of Periphyton to Atrazine Exposure. Archives of Environmental Contamination and Toxicology, 2007, 52, 32-37.	4.1	35

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73	Assessing the ecological integrity after nutrient inputs in streams: The relevance of the observation scale. Aquatic Ecosystem Health and Management, 2005, 8, 397-403.	0.6	4
74	Phosphate limitation influences the sensitivity to copper in periphytic algae. Freshwater Biology, 2004, 49, 463-473.	2.4	65
75	STRUCTURE AND FUNCTION OF BENTHIC ALGAL COMMUNITIES IN AN EXTREMELY ACID RIVER1. Journal of Phycology, 2003, 39, 481-489.	2.3	88
76	The effect of copper exposure on a simple aquatic food chain. Aquatic Toxicology, 2003, 63, 283-291.	4.0	50
77	Contrasting effects of organic and inorganic toxicants on freshwater periphyton. Aquatic Toxicology, 2003, 64, 165-175.	4.0	87
78	Ecological factors that co-occur with geosmin production by benthic cyanobacteria. The case of the Llobregat River. Algological Studies, 2003, 109, 579-592.	0.1	9
79	EFFECT OF COPPER ON ALGAL COMMUNITIES FROM OLIGOTROPHIC CALCAREOUS STREAMS1. Journal of Phycology, 2002, 38, 241-248.	2.3	64
80	Title is missing!. Journal of Applied Phycology, 2002, 14, 41-48.	2.8	49
81	The effect of biological factors on the efficiency of river biofilms in improving water quality. Hydrobiologia, 2002, 469, 149-156.	2.0	133
82	Effects of copper on algal communities at different current velocities. Journal of Applied Phycology, 2002, 14, 391-398.	2.8	30
83	Effects of atrazine on periphyton under grazing pressure. Aquatic Toxicology, 2001, 55, 239-249.	4.0	73
84	Differences in the sensitivity of benthic microalgae to ZN and CD regarding biofilm development and exposure history. Environmental Toxicology and Chemistry, 2000, 19, 1332-1339.	4.3	117
85	Stromatolitic communities in Mediterranean streams: adaptations to a changing environment. Biodiversity and Conservation, 2000, 9, 379-392.	2.6	23
86	DIFFERENCES IN THE SENSITIVITY OF BENTHIC MICROALGAE TO ZN AND CD REGARDING BIOFILM DEVELOPMENT AND EXPOSURE HISTORY. Environmental Toxicology and Chemistry, 2000, 19, 1332.	4.3	6
87	Short-term toxicity of zinc to microbenthic algae and bacteria in a metal polluted stream. Water Research, 1999, 33, 1989-1996.	11.3	124
88	Recommendations for the routine sampling of diatoms for water quality assessments in Europe. Journal of Applied Phycology, 1998, 10, 215-224.	2.8	374
89	Title is missing!. Journal of Applied Phycology, 1998, 10, 203-213.	2.8	83
90	LIGHT HISTORY INFLUENCES THE SENSITIVITY TO ATRAZINE IN PERIPHYTIC ALGAE. Journal of Phycology, 1998, 34, 233-241.	2.3	100

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91	Diurnal variation in dissolved oxygen and carbon dioxide in two low-order streams. Water Research, 1998, 32, 1067-1074.	11.3	61
92	Estimation of the annual primary production of stream epilithic biofilms based on photosynthesisirradiance relations. Fundamental and Applied Limnology, 1998, 141, 469-481.	0.7	8
93	Changes in atrazine toxicity throughout succession of stream periphyton communities. Journal of Applied Phycology, 1997, 9, 137-146.	2.8	66
94	SEASONAL VARIATIONS IN PHOTOSYNTHESIS-IRRADIANCE RESPONSES BY BIOFILMS IN MEDITERRANEAN STREAMS1. Journal of Phycology, 1995, 31, 727-735.	2.3	69
95	Nutrient enrichment effects on biofilm metabolism in a Mediterranean stream. Freshwater Biology, 1995, 33, 373-383.	2.4	69
96	The role of drought in the impact of climatic change on the microbiota of peatland streams. Freshwater Biology, 1994, 32, 223-230.	2.4	24