

# Anna M Roman

## 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.

113  
papers

4,910  
citations

38  
h-index

67  
g-index

115  
ext. papers

5,614  
ext. citations

4.7  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
113	The Iberian rivers <b>2022</b> , 181-224		1
112	Litter decomposition of three halophytes in a Mediterranean salt marsh: Relevance of litter quality, microbial activity and microhabitat.. <i>Science of the Total Environment</i> , <b>2022</b> , 155743	10.2	0
111	Temperature-induced changes in biofilm organic matter utilization in arctic streams (Disko Island, Greenland). <i>Polar Biology</i> , <b>2021</b> , 44, 2177-2188	2	0
110	Different microbial functioning in natural versus man-made Mediterranean coastal lagoons in relation to season. <i>Estuarine, Coastal and Shelf Science</i> , <b>2021</b> , 259, 107434	2.9	2
109	Legacy of Summer Drought on Autumnal Leaf Litter Processing in a Temporary Mediterranean Stream. <i>Ecosystems</i> , <b>2020</b> , 23, 989-1003	3.9	13
108	River biofilms adapted to anthropogenic disturbances are more resistant to WWTP inputs. <i>FEMS Microbiology Ecology</i> , <b>2020</b> , 96,	4.3	1
107	A bilayer coarse-fine infiltration system minimizes bioclogging: The relevance of depth-dynamics. <i>Science of the Total Environment</i> , <b>2019</b> , 669, 559-569	10.2	17
106	Microbial Organic Matter Utilization in High-Arctic Streams: Key Enzymatic Controls. <i>Microbial Ecology</i> , <b>2019</b> , 78, 539-554	4.4	13
105	Responses of microbial activity in hyporheic pore water to biogeochemical changes in a drying headwater stream. <i>Freshwater Biology</i> , <b>2019</b> , 64, 735-749	3.1	10
104	The synergistic effect of enzymatic detergents on biofilm cleaning from different surfaces. <i>Biofouling</i> , <b>2019</b> , 35, 883-899	3.3	7
103	Interplay between sediment properties and stream flow conditions influences surface sediment organic matter and microbial biomass in a Mediterranean river. <i>Hydrobiologia</i> , <b>2019</b> , 828, 199-212	2.4	4
102	A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. <i>Earth-Science Reviews</i> , <b>2019</b> , 188, 441-453	10.2	36
101	Bilayer Infiltration System Combines Benefits from Both Coarse and Fine Sands Promoting Nutrient Accumulation in Sediments and Increasing Removal Rates. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 5734-5743	10.3	7
100	Linking biofilm spatial structure to real-time microscopic oxygen decay imaging. <i>Biofouling</i> , <b>2018</b> , 34, 200-211	3.3	5
99	Deconvolution model to resolve cytometric microbial community patterns in flowing waters. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2018</b> , 93, 194-200	4.6	24
98	Responses of microbially driven leaf litter decomposition to stream nutrients depend on litter quality. <i>Hydrobiologia</i> , <b>2018</b> , 806, 333-346	2.4	13
97	Microbial decomposition is highly sensitive to leaf litter emersion in a permanent temperate stream. <i>Science of the Total Environment</i> , <b>2018</b> , 621, 486-496	10.2	24

96	Key role of streambed moisture and flash storms for microbial resistance and resilience to long-term drought. <i>Freshwater Biology</i> , <b>2018</b> , 64, 306	3.1	13
95	Biochemical quality of basal resources in a forested stream: effects of nutrient enrichment. <i>Aquatic Sciences</i> , <b>2017</b> , 79, 99-112	2.5	3
94	Biofilm phosphorus uptake capacity as a tool for the assessment of pollutant effects in river ecosystems. <i>Ecotoxicology</i> , <b>2017</b> , 26, 271-282	2.9	11
93	Warmer night-time temperature promotes microbial heterotrophic activity and modifies stream sediment community. <i>Global Change Biology</i> , <b>2017</b> , 23, 3825-3837	11.4	22
92	Interaction between Physical Heterogeneity and Microbial Processes in Subsurface Sediments: A Laboratory-Scale Column Experiment. <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 6110-6119	10.3	23
91	Quality and reactivity of dissolved organic matter in a Mediterranean river across hydrological and spatial gradients. <i>Science of the Total Environment</i> , <b>2017</b> , 599-600, 1802-1812	10.2	35
90	A mechanistic model (BCC-PSSICO) to predict changes in the hydraulic properties for bio-amended variably saturated soils. <i>Water Resources Research</i> , <b>2017</b> , 53, 93-109	5.4	13
89	Responses of microbial decomposers to drought in streams may depend on the environmental context. <i>Environmental Microbiology Reports</i> , <b>2017</b> , 9, 756-765	3.7	16
88	The Biota of Intermittent Rivers and Ephemeral Streams: Prokaryotes, Fungi, and Protozoans <b>2017</b> , 161-188		21
87	The effects of sediment depth and oxygen concentration on the use of organic matter: An experimental study using an infiltration sediment tank. <i>Science of the Total Environment</i> , <b>2016</b> , 540, 20-31	10.2	31
86	Hydrological conditions control in situ DOM retention and release along a Mediterranean river. <i>Water Research</i> , <b>2016</b> , 99, 33-45	12.5	22
85	Influence of grazing on triclosan toxicity to stream periphyton. <i>Freshwater Biology</i> , <b>2016</b> , 61, 2002-2012	3.1	17
84	Differences in the sensitivity of fungi and bacteria to season and invertebrates affect leaf litter decomposition in a Mediterranean stream. <i>FEMS Microbiology Ecology</i> , <b>2016</b> , 92,	4.3	31
83	The ecology and biogeochemistry of stream biofilms. <i>Nature Reviews Microbiology</i> , <b>2016</b> , 14, 251-63	22.2	494
82	Fluvial biofilms from upper and lower river reaches respond differently to wastewater treatment plant inputs. <i>Hydrobiologia</i> , <b>2016</b> , 765, 169-183	2.4	6
81	Microbes in Aquatic Biofilms Under the Effect of Changing Climate <b>2016</b> , 83-96		4
80	Sediment microbial communities rely on different dissolved organic matter sources along a Mediterranean river continuum. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 1389-1405	4.8	39
79	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

78	Factors controlling seasonality in leaf-litter breakdown in a Mediterranean stream. <i>Freshwater Science</i> , <b>2015</b> , 34, 1245-1258	2	18
77	Consequences of warming and resource quality on the stoichiometry and nutrient cycling of a stream shredder. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118520	3.7	21
76	Impact of drying/rewetting cycles on the bioavailability of dissolved organic matter molecular-weight fractions in a Mediterranean stream. <i>Freshwater Science</i> , <b>2015</b> , 34, 263-275	2	15
75	Nutrient and enzymatic adaptations of stream biofilms to changes in nitrogen and phosphorus supply. <i>Aquatic Microbial Ecology</i> , <b>2015</b> , 75, 91-102	1.1	10
74	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
73	A compositional analysis approach to phytoplankton composition in coastal Mediterranean wetlands: Influence of salinity and nutrient availability. <i>Estuarine, Coastal and Shelf Science</i> , <b>2014</b> , 136, 72-81	2.9	15
72	Effects of warming on stream biofilm organic matter use capabilities. <i>Microbial Ecology</i> , <b>2014</b> , 68, 132-45	4.4	34
71	Connecting bacterial colonization to physical and biochemical changes in a sand box infiltration experiment. <i>Journal of Hydrology</i> , <b>2014</b> , 517, 317-327	6	30
70	Shifts in microbial community structure and function in light- and dark-grown biofilms driven by warming. <i>Environmental Microbiology</i> , <b>2014</b> , 16, 2550-67	5.2	29
69	Shifts in carbon substrate utilization in sediment microbial communities along the Llobregat River. <i>Fundamental and Applied Limnology</i> , <b>2014</b> , 185, 247-261	1.9	7
68	Response of biofilm bacterial communities to antibiotic pollutants in a Mediterranean river. <i>Chemosphere</i> , <b>2013</b> , 92, 1126-35	8.4	67
67	Microbial biofilm structure and organic matter use in mediterranean streams. <i>Hydrobiologia</i> , <b>2013</b> , 719, 43-58	2.4	64
66	Drought episode modulates the response of river biofilms to triclosan. <i>Aquatic Toxicology</i> , <b>2013</b> , 127, 36-45	5.1	28
65	Changes of the phenol-degrading bacterial community during the decomposition of submersed <i>Platanus acerifolia</i> leaves. <i>FEMS Microbiology Letters</i> , <b>2013</b> , 338, 184-91	2.9	4
64	Effects of pesticides and pharmaceuticals on biofilms in a highly impacted river. <i>Environmental Pollution</i> , <b>2013</b> , 178, 220-8	9.3	84
63	Delayed response of microbial epilimnetic biofilm to nutrient addition in a Pampean stream. <i>Aquatic Microbial Ecology</i> , <b>2013</b> , 69, 145-155	1.1	13
62	Global pressures, specific responses: effects of nutrient enrichment in streams from different biomes. <i>Environmental Research Letters</i> , <b>2013</b> , 8, 014002	6.2	19
61	Different diversity-functioning relationship in lake and stream bacterial communities. <i>FEMS Microbiology Ecology</i> , <b>2013</b> , 85, 95-103	4.3	26

60	Phosphorus use by planktonic communities in a large regulated Mediterranean river. <i>Science of the Total Environment</i> , <b>2012</b> , 426, 180-7	10.2	19
59	Nutrients and light effects on stream biofilms: a combined assessment with CLSM, structural and functional parameters. <i>Hydrobiologia</i> , <b>2012</b> , 695, 281-291	2.4	21
58	Labile and recalcitrant organic matter utilization by river biofilm under increasing water temperature. <i>Microbial Ecology</i> , <b>2012</b> , 64, 593-604	4.4	42
57	The Use of Attached Microbial Communities to Assess Ecological Risks of Pollutants in River Ecosystems: The Role of Heterotrophs. <i>Handbook of Environmental Chemistry</i> , <b>2012</b> , 55-83	0.8	9
56	The use of wooden sticks to assess stream ecosystem functioning: comparison with leaf breakdown rates. <i>Science of the Total Environment</i> , <b>2012</b> , 440, 115-22	10.2	37
55	Patterns of biofilm formation in two streams from different bioclimatic regions: analysis of microbial community structure and metabolism. <i>Hydrobiologia</i> , <b>2012</b> , 695, 83-96	2.4	21
54	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
53	Biofilm formation at warming temperature: acceleration of microbial colonization and microbial interactive effects. <i>Biofouling</i> , <b>2011</b> , 27, 59-71	3.3	83
52	Long-term moderate nutrient inputs enhance autotrophy in a forested Mediterranean stream. <i>Freshwater Biology</i> , <b>2011</b> , 56, 1266-1280	3.1	38
51	Resistance and recovery of river biofilms receiving short pulses of Triclosan and Diuron. <i>Science of the Total Environment</i> , <b>2011</b> , 409, 3129-37	10.2	67
50	Organic matter characteristics in a Mediterranean stream through amino acid composition: changes driven by intermittency. <i>Aquatic Sciences</i> , <b>2011</b> , 73, 523-535	2.5	29
49	Fungal and Bacterial Colonization of Submerged Leaf Litter in a Mediterranean Stream. <i>International Review of Hydrobiology</i> , <b>2011</b> , 96, 221-234	2.3	22
48	Multifunctionality and diversity in bacterial biofilms. <i>PLoS ONE</i> , <b>2011</b> , 6, e23225	3.7	80
47	Aquatic and Riparian Biodiversity in the Ebro Watershed: Prospects and Threats. <i>Handbook of Environmental Chemistry</i> , <b>2010</b> , 121-138	0.8	2
46	Fluvial biofilms: A pertinent tool to assess beta-blockers toxicity. <i>Aquatic Toxicology</i> , <b>2010</b> , 96, 225-33	5.1	61
45	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
44	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
43	Organic matter availability during pre- and post-drought periods in a Mediterranean stream. <i>Hydrobiologia</i> , <b>2010</b> , 657, 217-232	2.4	66

42	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
41	Organic matter availability during pre- and post-drought periods in a Mediterranean stream <b>2010</b> , 217-232		1
40	The Iberian Rivers <b>2009</b> , 113-149		39
39	Organic matter availability structures microbial biomass and activity in a Mediterranean stream. <i>Freshwater Biology</i> , <b>2009</b> , 54, 2025-2036	3.1	47
38	Availability of glucose and light modulates the structure and function of a microbial biofilm. <i>FEMS Microbiology Ecology</i> , <b>2009</b> , 69, 27-42	4.3	59
37	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
36	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
35	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
34	Contribution of microbial and invertebrate communities to leaf litter colonization in a Mediterranean stream. <i>Journal of the North American Benthological Society</i> , <b>2009</b> , 28, 34-43		22
33	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
32	Relating nutrient molar ratios of microbial attached communities to organic matter utilization in a forested stream. <i>Fundamental and Applied Limnology</i> , <b>2009</b> , 173, 255-264	1.9	27
31	ALGAL RESPONSE TO NUTRIENT ENRICHMENT IN FORESTED OLIGOTROPHIC STREAM(1). <i>Journal of Phycology</i> , <b>2008</b> , 44, 564-72	3	44
30	Longitudinal development of chlorophyll and phytoplankton assemblages in a regulated large river (the Ebro River). <i>Science of the Total Environment</i> , <b>2008</b> , 404, 196-206	10.2	83
29	Effect of nutrients on the sporulation and diversity of aquatic hyphomycetes on submerged substrata in a Mediterranean stream. <i>Aquatic Botany</i> , <b>2008</b> , 88, 32-38	1.8	42
28	Relevance of polymeric matrix enzymes during biofilm formation. <i>Microbial Ecology</i> , <b>2008</b> , 56, 427-36	4.4	94
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	Effects of the DryWet Hydrological Shift on Dissolved Organic Carbon Dynamics and Fate Across StreamBiparian Interface in a Mediterranean Catchment. <i>Ecosystems</i> , <b>2007</b> , 10, 239-251	3.9	38
25	Differential effects of nutrients and light on the primary production of stream algae and mosses. <i>Fundamental and Applied Limnology</i> , <b>2007</b> , 170, 1-10	1.9	30

24	Microbial availability and size fractionation of dissolved organic carbon after drought in an intermittent stream: biogeochemical link across the stream-riparian interface. <i>Microbial Ecology</i> , <b>2006</b> , 52, 501-12	4.4	68
23	Interactions of bacteria and fungi on decomposing litter: differential extracellular enzyme activities. <i>Ecology</i> , <b>2006</b> , 87, 2559-69	4.6	285
22	Effects of nutrient inputs in a forested Mediterranean stream under moderate light availability. <i>Archiv Für Hydrobiologie</i> , <b>2005</b> , 163, 479-496		33
21	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
20	The influence of substratum type and nutrient supply on biofilm organic matter utilization in streams. <i>Limnology and Oceanography</i> , <b>2004</b> , 49, 1713-1721	4.8	66
19	Biofilm structure and function and possible implications for riverine DOC dynamics. <i>Microbial Ecology</i> , <b>2004</b> , 47, 316-28	4.4	118
18	Organic matter decomposition by fungi in a Mediterranean forested stream : contribution of streambed substrata. <i>Annales De Limnologie</i> , <b>2004</b> , 40, 269-277	0.7	14
17	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
16	Ecological implications of mass growth of benthic cyanobacteria in rivers. <i>Aquatic Microbial Ecology</i> , <b>2003</b> , 32, 175-184	1.1	53
15	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
14	Extracellular enzymatic activities in epilithic biofilms of the Breitenbach: microhabitat differences. <i>Fundamental and Applied Limnology</i> , <b>2002</b> , 155, 541-555	1.9	10
13	STRUCTURE AND ACTIVITY OF ROCK AND SAND BIOFILMS IN A MEDITERRANEAN STREAM. <i>Ecology</i> , <b>2001</b> , 82, 3232-3245	4.6	68
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	Variability of heterotrophic activity in Mediterranean stream biofilms: A multivariate analysis of physical-chemical and biological factors. <i>Aquatic Sciences</i> , <b>2000</b> , 62, 205-215	2.5	12
10	Effects of riparian vegetation removal on nutrient retention in a Mediterranean stream. <i>Journal of the North American Benthological Society</i> , <b>2000</b> , 19, 609-620		111
9	Influence of algal biomass on extracellular enzyme activity in river biofilms. <i>Microbial Ecology</i> , <b>2000</b> , 40, 16-24	4.4	75
8	Effect of primary producers on the heterotrophic metabolism of a stream biofilm. <i>Freshwater Biology</i> , <b>1999</b> , 41, 729-736	3.1	71
7	Epilithic ectoenzyme activity in a nutrient-rich Mediterranean river. <i>Aquatic Sciences</i> , <b>1999</b> , 61, 122	2.5	32

6	A stromatolitic cyanobacterial crust in a Mediterranean stream optimizes organic matter use. <i>Aquatic Microbial Ecology</i> , <b>1998</b> , 16, 131-141	1.1	7
5	Heterotrophic metabolism in a forest stream sediment: surface versus subsurface zones. <i>Aquatic Microbial Ecology</i> , <b>1998</b> , 16, 143-151	1.1	34
4	Metabolism recovery of a stromatolitic biofilm after drought in a Mediterranean stream fig: 3. <i>Fundamental and Applied Limnology</i> , <b>1997</b> , 140, 261-271	1.9	33
3	Metabolic changes associated with biofilm formation in an undisturbed Mediterranean stream. <i>Hydrobiologia</i> , <b>1996</b> , 335, 107-113	2.4	34
2	Introduction to Microbial Fouling121-122		
1	Freshwater Biofilms137-153		5