

Anna M Roman

List of Publications by Citations

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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 ecology and biogeochemistry of stream biofilms. <i>Nature Reviews Microbiology</i> , 2016 , 14, 251-63 | 22.2 | 494 |
| 112 | Interactions of bacteria and fungi on decomposing litter: differential extracellular enzyme activities. <i>Ecology</i> , 2006 , 87, 2559-69 | 4.6 | 285 |
| 111 | Monitoring the effect of chemicals on biological communities. The biofilm as an interface. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1425-34 | 4.4 | 268 |
| 110 | Bridging levels of pharmaceuticals in river water with biological community structure in the Llobregat River basin (northeast Spain). <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 2706-14 | 3.8 | 155 |
| 109 | Triclosan persistence through wastewater treatment plants and its potential toxic effects on river biofilms. <i>Aquatic Toxicology</i> , 2010 , 100, 346-53 | 5.1 | 134 |
| 108 | Primary and complex stressors in polluted mediterranean rivers: Pesticide effects on biological communities. <i>Journal of Hydrology</i> , 2010 , 383, 52-61 | 6 | 130 |
| 107 | Biofilm structure and function and possible implications for riverine DOC dynamics. <i>Microbial Ecology</i> , 2004 , 47, 316-28 | 4.4 | 118 |
| 106 | Effects of riparian vegetation removal on nutrient retention in a Mediterranean stream. <i>Journal of the North American Benthological Society</i> , 2000 , 19, 609-620 | | 111 |
| 105 | Effects of low concentrations of the phenylurea herbicide diuron on biofilm algae and bacteria. <i>Chemosphere</i> , 2009 , 76, 1392-401 | 8.4 | 110 |
| 104 | The effect of biological factors on the efficiency of river biofilms in improving water quality. <i>Hydrobiologia</i> , 2002 , 469, 149-156 | 2.4 | 105 |
| 103 | Relevance of polymeric matrix enzymes during biofilm formation. <i>Microbial Ecology</i> , 2008 , 56, 427-36 | 4.4 | 94 |
| 102 | Effects of pesticides and pharmaceuticals on biofilms in a highly impacted river. <i>Environmental Pollution</i> , 2013 , 178, 220-8 | 9.3 | 84 |
| 101 | Biofilm formation at warming temperature: acceleration of microbial colonization and microbial interactive effects. <i>Biofouling</i> , 2011 , 27, 59-71 | 3.3 | 83 |
| 100 | Longitudinal development of chlorophyll and phytoplankton assemblages in a regulated large river (the Ebro River). <i>Science of the Total Environment</i> , 2008 , 404, 196-206 | 10.2 | 83 |
| 99 | Multifunctionality and diversity in bacterial biofilms. <i>PLoS ONE</i> , 2011 , 6, e23225 | 3.7 | 80 |
| 98 | STRUCTURE AND FUNCTION OF BENTHIC ALGAL COMMUNITIES IN AN EXTREMELY ACID RIVER1. <i>Journal of Phycology</i> , 2003 , 39, 481-489 | 3 | 77 |
| 97 | Influence of algal biomass on extracellular enzyme activity in river biofilms. <i>Microbial Ecology</i> , 2000 , 40, 16-24 | 4.4 | 75 |

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|----|--|------|----|
| 96 | 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> , 2014 , 468-469, 715-23 | 10.2 | 71 |
| 95 | Effect of primary producers on the heterotrophic metabolism of a stream biofilm. <i>Freshwater Biology</i> , 1999 , 41, 729-736 | 3.1 | 71 |
| 94 | 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> , 2006 , 52, 501-12 | 4.4 | 68 |
| 93 | STRUCTURE AND ACTIVITY OF ROCK AND SAND BIOFILMS IN A MEDITERRANEAN STREAM. <i>Ecology</i> , 2001 , 82, 3232-3245 | 4.6 | 68 |
| 92 | Response of biofilm bacterial communities to antibiotic pollutants in a Mediterranean river. <i>Chemosphere</i> , 2013 , 92, 1126-35 | 8.4 | 67 |
| 91 | Resistance and recovery of river biofilms receiving short pulses of Triclosan and Diuron. <i>Science of the Total Environment</i> , 2011 , 409, 3129-37 | 10.2 | 67 |
| 90 | Organic matter availability during pre- and post-drought periods in a Mediterranean stream. <i>Hydrobiologia</i> , 2010 , 657, 217-232 | 2.4 | 66 |
| 89 | The influence of substratum type and nutrient supply on biofilm organic matter utilization in streams. <i>Limnology and Oceanography</i> , 2004 , 49, 1713-1721 | 4.8 | 66 |
| 88 | Microbial biofilm structure and organic matter use in mediterranean streams. <i>Hydrobiologia</i> , 2013 , 719, 43-58 | 2.4 | 64 |
| 87 | Fluvial biofilms: A pertinent tool to assess beta-blockers toxicity. <i>Aquatic Toxicology</i> , 2010 , 96, 225-33 | 5.1 | 61 |
| 86 | Availability of glucose and light modulates the structure and function of a microbial biofilm. <i>FEMS Microbiology Ecology</i> , 2009 , 69, 27-42 | 4.3 | 59 |
| 85 | Ecological implications of mass growth of benthic cyanobacteria in rivers. <i>Aquatic Microbial Ecology</i> , 2003 , 32, 175-184 | 1.1 | 53 |
| 84 | Organic matter availability structures microbial biomass and activity in a Mediterranean stream. <i>Freshwater Biology</i> , 2009 , 54, 2025-2036 | 3.1 | 47 |
| 83 | ALGAL RESPONSE TO NUTRIENT ENRICHMENT IN FORESTED OLIGOTROPHIC STREAM(1). <i>Journal of Phycology</i> , 2008 , 44, 564-72 | 3 | 44 |
| 82 | Labile and recalcitrant organic matter utilization by river biofilm under increasing water temperature. <i>Microbial Ecology</i> , 2012 , 64, 593-604 | 4.4 | 42 |
| 81 | Effect of nutrients on the sporulation and diversity of aquatic hyphomycetes on submerged substrata in a Mediterranean stream. <i>Aquatic Botany</i> , 2008 , 88, 32-38 | 1.8 | 42 |
| 80 | The Iberian Rivers 2009 , 113-149 | | 39 |
| 79 | The relevance of the community approach linking chemical and biological analyses in pollution assessment. <i>TrAC - Trends in Analytical Chemistry</i> , 2009 , 28, 619-626 | 14.6 | 39 |

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| 78 | Sediment microbial communities rely on different dissolved organic matter sources along a Mediterranean river continuum. <i>Limnology and Oceanography</i> , 2016 , 61, 1389-1405 | 4.8 | 39 |
| 77 | Long-term moderate nutrient inputs enhance autotrophy in a forested Mediterranean stream. <i>Freshwater Biology</i> , 2011 , 56, 1266-1280 | 3.1 | 38 |
| 76 | Effects of the Dry/Wet Hydrological Shift on Dissolved Organic Carbon Dynamics and Fate Across Stream Riparian Interface in a Mediterranean Catchment. <i>Ecosystems</i> , 2007 , 10, 239-251 | 3.9 | 38 |
| 75 | The use of wooden sticks to assess stream ecosystem functioning: comparison with leaf breakdown rates. <i>Science of the Total Environment</i> , 2012 , 440, 115-22 | 10.2 | 37 |
| 74 | A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. <i>Earth-Science Reviews</i> , 2019 , 188, 441-453 | 10.2 | 36 |
| 73 | Quality and reactivity of dissolved organic matter in a Mediterranean river across hydrological and spatial gradients. <i>Science of the Total Environment</i> , 2017 , 599-600, 1802-1812 | 10.2 | 35 |
| 72 | Effects of warming on stream biofilm organic matter use capabilities. <i>Microbial Ecology</i> , 2014 , 68, 132-45 | 4.4 | 34 |
| 71 | Is chemical contamination linked to the diversity of biological communities in rivers?. <i>TrAC - Trends in Analytical Chemistry</i> , 2009 , 28, 592-602 | 14.6 | 34 |
| 70 | Metabolic changes associated with biofilm formation in an undisturbed Mediterranean stream. <i>Hydrobiologia</i> , 1996 , 335, 107-113 | 2.4 | 34 |
| 69 | Heterotrophic metabolism in a forest stream sediment: surface versus subsurface zones. <i>Aquatic Microbial Ecology</i> , 1998 , 16, 143-151 | 1.1 | 34 |
| 68 | Effects of nutrient inputs in a forested Mediterranean stream under moderate light availability. <i>Archiv für Hydrobiologie</i> , 2005 , 163, 479-496 | | 33 |
| 67 | Metabolism recovery of a stromatolitic biofilm after drought in a Mediterranean stream fig: 3. <i>Fundamental and Applied Limnology</i> , 1997 , 140, 261-271 | 1.9 | 33 |
| 66 | Does grazing pressure modify diuron toxicity in a biofilm community?. <i>Archives of Environmental Contamination and Toxicology</i> , 2010 , 58, 955-62 | 3.2 | 32 |
| 65 | Epilithic ectoenzyme activity in a nutrient-rich Mediterranean river. <i>Aquatic Sciences</i> , 1999 , 61, 122 | 2.5 | 32 |
| 64 | 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> , 2016 , 540, 20-31 | 10.2 | 31 |
| 63 | 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> , 2016 , 92, | 4.3 | 31 |
| 62 | Connecting bacterial colonization to physical and biochemical changes in a sand box infiltration experiment. <i>Journal of Hydrology</i> , 2014 , 517, 317-327 | 6 | 30 |
| 61 | Differential effects of nutrients and light on the primary production of stream algae and mosses. <i>Fundamental and Applied Limnology</i> , 2007 , 170, 1-10 | 1.9 | 30 |

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| 60 | Shifts in microbial community structure and function in light- and dark-grown biofilms driven by warming. <i>Environmental Microbiology</i> , 2014 , 16, 2550-67 | 5.2 | 29 |
| 59 | Organic matter characteristics in a Mediterranean stream through amino acid composition: changes driven by intermittency. <i>Aquatic Sciences</i> , 2011 , 73, 523-535 | 2.5 | 29 |
| 58 | Drought episode modulates the response of river biofilms to triclosan. <i>Aquatic Toxicology</i> , 2013 , 127, 36-45 | 5.1 | 28 |
| 57 | Relating nutrient molar ratios of microbial attached communities to organic matter utilization in a forested stream. <i>Fundamental and Applied Limnology</i> , 2009 , 173, 255-264 | 1.9 | 27 |
| 56 | Different diversity-functioning relationship in lake and stream bacterial communities. <i>FEMS Microbiology Ecology</i> , 2013 , 85, 95-103 | 4.3 | 26 |
| 55 | 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> , 2018 , 93, 194-200 | 4.6 | 24 |
| 54 | Microbial decomposition is highly sensitive to leaf litter emersion in a permanent temperate stream. <i>Science of the Total Environment</i> , 2018 , 621, 486-496 | 10.2 | 24 |
| 53 | Interaction between Physical Heterogeneity and Microbial Processes in Subsurface Sediments: A Laboratory-Scale Column Experiment. <i>Environmental Science & Technology</i> , 2017 , 51, 6110-6119 | 10.3 | 23 |
| 52 | Warmer night-time temperature promotes microbial heterotrophic activity and modifies stream sediment community. <i>Global Change Biology</i> , 2017 , 23, 3825-3837 | 11.4 | 22 |
| 51 | Hydrological conditions control in situ DOM retention and release along a Mediterranean river. <i>Water Research</i> , 2016 , 99, 33-45 | 12.5 | 22 |
| 50 | Fungal and Bacterial Colonization of Submerged Leaf Litter in a Mediterranean Stream. <i>International Review of Hydrobiology</i> , 2011 , 96, 221-234 | 2.3 | 22 |
| 49 | Contribution of microbial and invertebrate communities to leaf litter colonization in a Mediterranean stream. <i>Journal of the North American Benthological Society</i> , 2009 , 28, 34-43 | | 22 |
| 48 | The Biota of Intermittent Rivers and Ephemeral Streams: Prokaryotes, Fungi, and Protozoans 2017 , 161-188 | | 21 |
| 47 | Consequences of warming and resource quality on the stoichiometry and nutrient cycling of a stream shredder. <i>PLoS ONE</i> , 2015 , 10, e0118520 | 3.7 | 21 |
| 46 | Nutrients and light effects on stream biofilms: a combined assessment with CLSM, structural and functional parameters. <i>Hydrobiologia</i> , 2012 , 695, 281-291 | 2.4 | 21 |
| 45 | Patterns of biofilm formation in two streams from different bioclimatic regions: analysis of microbial community structure and metabolism. <i>Hydrobiologia</i> , 2012 , 695, 83-96 | 2.4 | 21 |
| 44 | Phosphorus use by planktonic communities in a large regulated Mediterranean river. <i>Science of the Total Environment</i> , 2012 , 426, 180-7 | 10.2 | 19 |
| 43 | Global pressures, specific responses: effects of nutrient enrichment in streams from different biomes. <i>Environmental Research Letters</i> , 2013 , 8, 014002 | 6.2 | 19 |

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| 42 | Factors controlling seasonality in leaf-litter breakdown in a Mediterranean stream. <i>Freshwater Science</i> , 2015 , 34, 1245-1258 | 2 | 18 |
| 41 | A bilayer coarse-fine infiltration system minimizes bioclogging: The relevance of depth-dynamics. <i>Science of the Total Environment</i> , 2019 , 669, 559-569 | 10.2 | 17 |
| 40 | Influence of grazing on triclosan toxicity to stream periphyton. <i>Freshwater Biology</i> , 2016 , 61, 2002-2012 | 3.1 | 17 |
| 39 | Responses of microbial decomposers to drought in streams may depend on the environmental context. <i>Environmental Microbiology Reports</i> , 2017 , 9, 756-765 | 3.7 | 16 |
| 38 | Stromatolitic communities in Mediterranean streams: adaptations to a changing environment. <i>Biodiversity and Conservation</i> , 2000 , 9, 379-392 | 3.4 | 16 |
| 37 | A compositional analysis approach to phytoplankton composition in coastal Mediterranean wetlands: Influence of salinity and nutrient availability. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 136, 72-81 | 2.9 | 15 |
| 36 | Impact of drying/rewetting cycles on the bioavailability of dissolved organic matter molecular-weight fractions in a Mediterranean stream. <i>Freshwater Science</i> , 2015 , 34, 263-275 | 2 | 15 |
| 35 | Organic matter decomposition by fungi in a Mediterranean forested stream : contribution of streambed substrata. <i>Annales De Limnologie</i> , 2004 , 40, 269-277 | 0.7 | 14 |
| 34 | A mechanistic model (BCC-PSSICO) to predict changes in the hydraulic properties for bio-amended variably saturated soils. <i>Water Resources Research</i> , 2017 , 53, 93-109 | 5.4 | 13 |
| 33 | Microbial Organic Matter Utilization in High-Arctic Streams: Key Enzymatic Controls. <i>Microbial Ecology</i> , 2019 , 78, 539-554 | 4.4 | 13 |
| 32 | Arsenic toxicity effects on microbial communities and nutrient cycling in indoor experimental channels mimicking a fluvial system. <i>Aquatic Toxicology</i> , 2015 , 166, 72-82 | 5.1 | 13 |
| 31 | Responses of microbially driven leaf litter decomposition to stream nutrients depend on litter quality. <i>Hydrobiologia</i> , 2018 , 806, 333-346 | 2.4 | 13 |
| 30 | Delayed response of microbial epilimnetic biofilm to nutrient addition in a Pampean stream. <i>Aquatic Microbial Ecology</i> , 2013 , 69, 145-155 | 1.1 | 13 |
| 29 | Legacy of Summer Drought on Autumnal Leaf Litter Processing in a Temporary Mediterranean Stream. <i>Ecosystems</i> , 2020 , 23, 989-1003 | 3.9 | 13 |
| 28 | Key role of streambed moisture and flash storms for microbial resistance and resilience to long-term drought. <i>Freshwater Biology</i> , 2018 , 64, 306 | 3.1 | 13 |
| 27 | Variability of heterotrophic activity in Mediterranean stream biofilms: A multivariate analysis of physical-chemical and biological factors. <i>Aquatic Sciences</i> , 2000 , 62, 205-215 | 2.5 | 12 |
| 26 | Biofilm phosphorus uptake capacity as a tool for the assessment of pollutant effects in river ecosystems. <i>Ecotoxicology</i> , 2017 , 26, 271-282 | 2.9 | 11 |
| 25 | Responses of microbial activity in hyporheic pore water to biogeochemical changes in a drying headwater stream. <i>Freshwater Biology</i> , 2019 , 64, 735-749 | 3.1 | 10 |

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| 24 | Extracellular enzymatic activities in epilithic biofilms of the Breitenbach: microhabitat differences. <i>Fundamental and Applied Limnology</i> , 2002 , 155, 541-555 | 1.9 | 10 |
| 23 | Nutrient and enzymatic adaptations of stream biofilms to changes in nitrogen and phosphorus supply. <i>Aquatic Microbial Ecology</i> , 2015 , 75, 91-102 | 1.1 | 10 |
| 22 | 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> , 2012 , 55-83 | 0.8 | 9 |
| 21 | 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> , 2012 , 19, 934-45 | 5.1 | 8 |
| 20 | Bilayer Infiltration System Combines Benefits from Both Coarse and Fine Sands Promoting Nutrient Accumulation in Sediments and Increasing Removal Rates. <i>Environmental Science & Technology</i> , 2018 , 52, 5734-5743 | 10.3 | 7 |
| 19 | The synergistic effect of enzymatic detergents on biofilm cleaning from different surfaces. <i>Biofouling</i> , 2019 , 35, 883-899 | 3.3 | 7 |
| 18 | Shifts in carbon substrate utilization in sediment microbial communities along the Llobregat River. <i>Fundamental and Applied Limnology</i> , 2014 , 185, 247-261 | 1.9 | 7 |
| 17 | A stromatolitic cyanobacterial crust in a Mediterranean stream optimizes organic matter use. <i>Aquatic Microbial Ecology</i> , 1998 , 16, 131-141 | 1.1 | 7 |
| 16 | Fluvial biofilms from upper and lower river reaches respond differently to wastewater treatment plant inputs. <i>Hydrobiologia</i> , 2016 , 765, 169-183 | 2.4 | 6 |
| 15 | Linking biofilm spatial structure to real-time microscopic oxygen decay imaging. <i>Biofouling</i> , 2018 , 34, 200-211 | 3.3 | 5 |
| 14 | Freshwater Biofilms 137-153 | | 5 |
| 13 | Changes of the phenol-degrading bacterial community during the decomposition of submersed <i>Platanus acerifolia</i> leaves. <i>FEMS Microbiology Letters</i> , 2013 , 338, 184-91 | 2.9 | 4 |
| 12 | Microbes in Aquatic Biofilms Under the Effect of Changing Climate 2016 , 83-96 | | 4 |
| 11 | Interplay between sediment properties and stream flow conditions influences surface sediment organic matter and microbial biomass in a Mediterranean river. <i>Hydrobiologia</i> , 2019 , 828, 199-212 | 2.4 | 4 |
| 10 | Biochemical quality of basal resources in a forested stream: effects of nutrient enrichment. <i>Aquatic Sciences</i> , 2017 , 79, 99-112 | 2.5 | 3 |
| 9 | Aquatic and Riparian Biodiversity in the Ebro Watershed: Prospects and Threats. <i>Handbook of Environmental Chemistry</i> , 2010 , 121-138 | 0.8 | 2 |
| 8 | Assessing the ecological integrity after nutrient inputs in streams: The relevance of the observation scale. <i>Aquatic Ecosystem Health and Management</i> , 2005 , 8, 397-403 | 1.4 | 2 |
| 7 | Different microbial functioning in natural versus man-made Mediterranean coastal lagoons in relation to season. <i>Estuarine, Coastal and Shelf Science</i> , 2021 , 259, 107434 | 2.9 | 2 |

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| 6 | The Iberian rivers 2022 , 181-224 | | 1 |
| 5 | Organic matter availability during pre- and post-drought periods in a Mediterranean stream 2010 , 217-232 | | 1 |
| 4 | River biofilms adapted to anthropogenic disturbances are more resistant to WWTP inputs. <i>FEMS Microbiology Ecology</i> , 2020 , 96, | 4-3 | 1 |
| 3 | Temperature-induced changes in biofilm organic matter utilization in arctic streams (Disko Island, Greenland). <i>Polar Biology</i> , 2021 , 44, 2177-2188 | 2 | 0 |
| 2 | 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> , 2022 , 155743 | 10.2 | 0 |
| 1 | Introduction to Microbial Fouling121-122 | | |