

Eug nia Mart -

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

8,543
citations

71102

41
h-index

46799

89
g-index

135
all docs

135
docs citations

135
times ranked

7118
citing authors

#	ARTICLE	IF	CITATIONS
1	Organizational Principles of Hyporheic Exchange Flow and Biogeochemical Cycling in River Networks Across Scales. <i>Water Resources Research</i> , 2022, 58, .	4.2	26
2	Consequences of an ecosystem state shift for nitrogen cycling in a desert stream. <i>Limnology and Oceanography</i> , 2022, 67, 1274-1286.	3.1	0
3	Wastewater treatment plant effluent inputs influence the temporal variability of nutrient uptake in an intermittent stream. <i>Urban Ecosystems</i> , 2022, 25, 1313-1326.	2.4	4
4	Stream Hydrology Controls the Longitudinal Bioreactive Footprint of Urban-Sourced Fine Particles. <i>Environmental Science & Technology</i> , 2022, 56, 9083-9091.	10.0	1
5	Interactions between microplastics and benthic biofilms in fluvial ecosystems: Knowledge gaps and future trends. <i>Freshwater Science</i> , 2022, 41, 442-458.	1.8	10
6	Floodplain Preconditioning of Leaf Litter Modulates the Subsidy of Terrestrial C and Nutrients in Fluvial Ecosystems. <i>Ecosystems</i> , 2021, 24, 137-152.	3.4	7
7	Residence Time in Hyporheic Bioactive Layers Explains Nitrate Uptake in Streams. <i>Water Resources Research</i> , 2021, 57, e2020WR027646.	4.2	8
8	Hydromorphologic Control of Streambed Fine Particle Standing Stocks Influences In-stream Aerobic Respiration. <i>Frontiers in Water</i> , 2021, 3, .	2.3	1
9	The method controls the story - Sampling method impacts on the detection of pore-water nitrogen concentrations in streambeds. <i>Science of the Total Environment</i> , 2020, 709, 136075.	8.0	2
10	Spatial heterogeneity in water velocity drives leaf litter dynamics in streams. <i>Freshwater Biology</i> , 2020, 65, 435-445.	2.4	21
11	Chemical and optical properties of leachates from different riparian particulate organic matter sources influence instream microbial activity. <i>Freshwater Science</i> , 2020, 39, 812-823.	1.8	0
12	Effect of Three Emergent Macrophyte Species on Nutrient Retention in Aquatic Environments under Excess Nutrient Loading. <i>Environmental Science & Technology</i> , 2020, 54, 15376-15384.	10.0	8
13	Diel variation of nutrient retention is associated with metabolism for ammonium but not phosphorus in a lowland stream. <i>Freshwater Science</i> , 2020, 39, 268-280.	1.8	7
14	Influence of Dissolved Organic Matter Sources on In-Stream Net Dissolved Organic Carbon Uptake in a Mediterranean Stream. <i>Water (Switzerland)</i> , 2020, 12, 1722.	2.7	6
15	Modelling the seasonal impacts of a wastewater treatment plant on water quality in a Mediterranean stream using microbial indicators. <i>Journal of Environmental Management</i> , 2020, 261, 110220.	7.8	15
16	Wastewater treatment plant effluent inputs induce large biogeochemical changes during low flows in an intermittent stream but small changes in day-night patterns. <i>Science of the Total Environment</i> , 2020, 714, 136733.	8.0	16
17	Microbial uptake of nitrogen and carbon from the water column by litter-associated microbes differs among litter species. <i>Limnology and Oceanography</i> , 2020, 65, 1891-1902.	3.1	7
18	Exploring the role of hydraulic conductivity on the contribution of the hyporheic zone to in-stream nitrogen uptake. <i>Ecohydrology</i> , 2019, 12, e2139.	2.4	12

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19	The role of helophyte species on nitrogen and phosphorus retention from wastewater treatment plant effluents. <i>Journal of Environmental Management</i> , 2019, 252, 109585.	7.8	10
20	The influence of the invasive alien nitrogen-fixing <i>Robinia pseudoacacia</i> L. on soil nitrogen availability in a mixed Mediterranean riparian forest. <i>European Journal of Forest Research</i> , 2019, 138, 1083-1093.	2.5	8
21	Supply, Demand, and In-Stream Retention of Dissolved Organic Carbon and Nitrate During Storms in Mediterranean Forested Headwater Streams. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	24
22	Uptake and trophic transfer of nitrogen and carbon in a temperate forested headwater stream. <i>Aquatic Sciences</i> , 2019, 81, 1.	1.5	5
23	Leachates from Helophyte Leaf-Litter Enhance Nitrogen Removal from Wastewater Treatment Plant Effluents. <i>Environmental Science & Technology</i> , 2019, 53, 7613-7620.	10.0	19
24	Incorporating In-Stream Nutrient Uptake into River Management: Gipuzkoa Rivers (Basque Country), Tj ETQq0 0 0 rBT /Overlock 10 Tf	3.2	1
25	Spatial and temporal variation in river corridor exchange across a 5th-order mountain stream network. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 5199-5225.	4.9	23
26	Solute Transport and Transformation in an Intermittent, Headwater Mountain Stream with Diurnal Discharge Fluctuations. <i>Water (Switzerland)</i> , 2019, 11, 2208.	2.7	14
27	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.	9.1	54
28	Co-located contemporaneous mapping of morphological, hydrological, chemical, and biological conditions in a 5th-order mountain stream network, Oregon, USA. <i>Earth System Science Data</i> , 2019, 11, 1567-1581.	9.9	14
29	Contribution of Hydrologic Opportunity and Biogeochemical Reactivity to the Variability of Nutrient Retention in River Networks. <i>Global Biogeochemical Cycles</i> , 2018, 32, 376-388.	4.9	44
30	Differences in ammonium oxidizer abundance and N uptake capacity between epilithic and epipsammic biofilms in an urban stream. <i>Freshwater Science</i> , 2018, 37, 13-22.	1.8	7
31	Partitioning assimilatory nitrogen uptake in streams: an analysis of stable isotope tracer additions across continents. <i>Ecological Monographs</i> , 2018, 88, 120-138.	5.4	60
32	Responses of microbially driven leaf litter decomposition to stream nutrients depend on litter quality. <i>Hydrobiologia</i> , 2018, 806, 333-346.	2.0	18
33	Low flow controls on stream thermal dynamics. <i>Limnologia</i> , 2018, 68, 157-167.	1.5	15
34	Decoupling of dissolved organic matter patterns between stream and riparian groundwater in a headwater forested catchment. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1897-1910.	4.9	24
35	Riparian Corridors: A New Conceptual Framework for Assessing Nitrogen Buffering Across Biomes. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	62
36	Emergent Macrophyte Root Architecture Controls Subsurface Solute Transport. <i>Water Resources Research</i> , 2018, 54, 5958-5972.	4.2	13

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37	Understanding pathways of dissimilatory and assimilatory dissolved inorganic nitrogen uptake in streams. <i>Limnology and Oceanography</i> , 2017, 62, 1166-1183.	3.1	33
38	Ecohydrological interfaces as hot spots of ecosystem processes. <i>Water Resources Research</i> , 2017, 53, 6359-6376.	4.2	155
39	Combined effects of hydrologic alteration and cyprinid fish in mediating biogeochemical processes in a Mediterranean stream. <i>Science of the Total Environment</i> , 2017, 601-602, 1217-1225.	8.0	6
40	Impacts of water level on metabolism and transient storage in vegetated lowland rivers: Insights from a mesocosm study. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 628-644.	3.0	22
41	Dayâ€“night ammonium oxidation in an urban stream: the influence of irradiance on ammonia oxidizers. <i>Freshwater Science</i> , 2017, 36, 272-283.	1.8	4
42	Macroinvertebrate community traits and nitrate removal in stream sediments. <i>Freshwater Biology</i> , 2017, 62, 929-944.	2.4	15
43	Helophyte impacts on the response of hyporheic invertebrate communities to inundation events in intermittent streams. <i>Ecohydrology</i> , 2017, 10, e1857.	2.4	4
44	Drivers of nitrogen transfer in stream food webs across continents. <i>Ecology</i> , 2017, 98, 3044-3055.	3.2	13
45	Decrypting stableâ€“isotope ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) variability in aquatic plants. <i>Freshwater Biology</i> , 2017, 62, 1807-1818.	2.4	46
46	Enhancement of carbon and nitrogen removal by helophytes along subsurface water flowpaths receiving treated wastewater. <i>Science of the Total Environment</i> , 2017, 599-600, 1667-1676.	8.0	16
47	Nutrient and Organic Matter Dynamics in Intermittent Rivers and Ephemeral Streams. , 2017, , 135-160.		52
48	Photoinhibition on natural ammonia oxidizers biofilm populations and implications for nitrogen uptake in stream biofilms. <i>Limnology and Oceanography</i> , 2017, 62, 364-375.	3.1	21
49	The influence of riparian evapotranspiration on stream hydrology and nitrogen retention in a subhumid Mediterranean catchment. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3831-3842.	4.9	21
50	Stream drying drives microbial ammonia oxidation and firstâ€“flush nitrate export. <i>Ecology</i> , 2016, 97, 2192-2198.	3.2	35
51	Resource subsidies between stream and terrestrial ecosystems under global change. <i>Global Change Biology</i> , 2016, 22, 2489-2504.	9.5	119
52	Smallâ€“scale heterogeneity of microbial N uptake in streams and its implications at the ecosystem level. <i>Ecology</i> , 2016, 97, 1329-1344.	3.2	27
53	Green light: gross primary production influences seasonal stream Nâ€“export by controlling fineâ€“scale N dynamics. <i>Ecology</i> , 2016, 97, 133-144.	3.2	35
54	Linking in-stream nutrient uptake to hydrologic retention in two headwater streams. <i>Freshwater Science</i> , 2016, 35, 1176-1188.	1.8	27

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55	Restoration of wood loading has mixed effects on water, nutrient, and leaf retention in Basque mountain streams. <i>Freshwater Science</i> , 2016, 35, 41-54.	1.8	14
56	Nighttime and daytime respiration in a headwater stream. <i>Ecohydrology</i> , 2016, 9, 93-100.	2.4	21
57	Riparian and in-stream controls on nutrient concentrations and fluxes in a headwater forested stream. <i>Biogeosciences</i> , 2015, 12, 1941-1954.	3.3	41
58	A round-trip ticket: the importance of release processes for in-stream nutrient spiraling. <i>Freshwater Science</i> , 2015, 34, 20-30.	1.8	28
59	Hydrological transitions drive dissolved organic matter quantity and composition in a temporary Mediterranean stream. <i>Biogeochemistry</i> , 2015, 123, 429-446.	3.5	46
60	Wastewater Treatment Plant Effluents Change Abundance and Composition of Ammonia-Oxidizing Microorganisms in Mediterranean Urban Stream Biofilms. <i>Microbial Ecology</i> , 2015, 69, 66-74.	2.8	44
61	Biofilm growth and nitrogen uptake responses to increases in nitrate and ammonium availability. <i>Aquatic Sciences</i> , 2015, 77, 695-707.	1.5	20
62	You are not always what we think you eat: selective assimilation across multiple whole-stream isotopic tracer studies. <i>Ecology</i> , 2014, 95, 2757-2767.	3.2	44
63	Stream carbon and nitrogen supplements during leaf litter decomposition: contrasting patterns for two foundation species. <i>Oecologia</i> , 2014, 176, 1111-1121.	2.0	45
64	Contrasts among macrophyte riparian species in their use of stream water nitrate and ammonium: insights from ¹⁵ N natural abundance. <i>Aquatic Sciences</i> , 2014, 76, 203-215.	1.5	17
65	Temporal Variability of Nitrogen Stable Isotopes in Primary Uptake Compartments in Four Streams Differing in Human Impacts. <i>Environmental Science & Technology</i> , 2014, 48, 6612-6619.	10.0	24
66	Ecosystem respiration increases with biofilm growth and bed forms: Flume measurements with resazurin. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 2220-2230.	3.0	27
67	Intrinsic and extrinsic drivers of autotrophic nitrogen cycling in stream ecosystems: Results from a translocation experiment. <i>Limnology and Oceanography</i> , 2014, 59, 1973-1986.	3.1	13
68	Nitrogen Stable Isotopes in Primary Uptake Compartments Across Streams Differing in Nutrient Availability. <i>Environmental Science & Technology</i> , 2013, 47, 130830132045000.	10.0	14
69	Hydrological extremes modulate nutrient dynamics in mediterranean climate streams across different spatial scales. <i>Hydrobiologia</i> , 2013, 719, 31-42.	2.0	84
70	Riverine transport of terrestrial organic matter to the North Catalan margin, NW Mediterranean Sea. <i>Progress in Oceanography</i> , 2013, 118, 71-80.	3.2	35
71	Nutrient uptake in a stream affected by hydropower plants: comparison between stream channels and diversion canals. <i>Hydrobiologia</i> , 2013, 712, 105-116.	2.0	10
72	Influence of nitrate and ammonium availability on uptake kinetics of stream biofilms. <i>Freshwater Science</i> , 2013, 32, 1155-1167.	1.8	36

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73	Colonization of freshwater biofilms by nitrifying bacteria from activated sludge. <i>FEMS Microbiology Ecology</i> , 2013, 85, 104-115.	2.7	41
74	Variability in ^{15}N natural abundance of basal resources in fluvial ecosystems: a meta-analysis. <i>Freshwater Science</i> , 2012, 31, 1003-1015.	1.8	43
75	Nitrogen processing and the role of epilithic biofilms downstream of a wastewater treatment plant. <i>Freshwater Science</i> , 2012, 31, 1057-1069.	1.8	46
76	In-stream net uptake regulates inorganic nitrogen export from catchments under base flow conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	32
77	Differential photoinhibition of bacterial and archaeal ammonia oxidation. <i>FEMS Microbiology Letters</i> , 2012, 327, 41-46.	1.8	245
78	Temporal variation of hydrological exchange and hyporheic biogeochemistry in a headwater stream during autumn. <i>Journal of the North American Benthological Society</i> , 2011, 30, 635-652.	3.1	22
79	Quantification of metabolically active transient storage (MATS) in two reaches with contrasting transient storage and ecosystem respiration. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	61
80	Biofilm recovery in a wastewater treatment plant-influenced stream and spatial segregation of ammonia-oxidizing microbial populations. <i>Limnology and Oceanography</i> , 2011, 56, 1054-1064.	3.1	32
81	Technical Note: A comparison of two empirical approaches to estimate in-stream net nutrient uptake. <i>Biogeosciences</i> , 2011, 8, 875-882.	3.3	24
82	Point-source effects on N and P uptake in a forested and an agricultural Mediterranean streams. <i>Science of the Total Environment</i> , 2011, 409, 957-967.	8.0	25
83	Influence of transient storage on stream nutrient uptake based on substrata manipulation. <i>Aquatic Sciences</i> , 2011, 73, 365-376.	1.5	35
84	Contraction, fragmentation and expansion dynamics determine nutrient availability in a Mediterranean forest stream. <i>Aquatic Sciences</i> , 2011, 73, 485-497.	1.5	89
85	Nitrate retention and removal in Mediterranean streams bordered by contrasting land uses: a ^{15}N tracer study. <i>Biogeosciences</i> , 2009, 6, 181-196.	3.3	47
86	Relationships among macroinvertebrate community structure, bio/ecological trait profiles, and environmental descriptors in European human-altered streams. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2009, 30, 1234-1238.	0.1	0
87	Variation in stream C, N and P uptake along an altitudinal gradient: a space-for-time analogue to assess potential impacts of climate change. <i>Hydrology Research</i> , 2009, 40, 123-137.	2.7	19
88	Effects of Wastewater Treatment Plants on Stream Nutrient Dynamics Under Water Scarcity Conditions. <i>Handbook of Environmental Chemistry</i> , 2009, , 173-195.	0.4	22
89	Measuring in-stream retention of copper by means of constant-rate additions. <i>Science of the Total Environment</i> , 2009, 407, 3847-3854.	8.0	17
90	Integrating empirical and heuristic knowledge in a KBS to approach stream eutrophication. <i>Ecological Modelling</i> , 2009, 220, 2162-2172.	2.5	5

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91	Twenty-six key research questions in urban stream ecology: an assessment of the state of the science. <i>Journal of the North American Benthological Society</i> , 2009, 28, 1080-1098.	3.1	312
92	Resazurin as a "smart" tracer for quantifying metabolically active transient storage in stream ecosystems. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	89
93	Inter-annual, Annual, and Seasonal Variation of P and N Retention in a Perennial and an Intermittent Stream. <i>Ecosystems</i> , 2008, 11, 670-687.	3.4	74
94	Biophysical controls on organic carbon fluxes in fluvial networks. <i>Nature Geoscience</i> , 2008, 1, 95-100.	12.9	1,102
95	Influence of land use on stream ecosystem function in a Mediterranean catchment. <i>Freshwater Biology</i> , 2008, 53, 2600-2612.	2.4	80
96	Development of a "smart" tracer for the assessment of microbiological activity and sediment-water interaction in natural waters: The resazurin-resorufin system. <i>Water Resources Research</i> , 2008, 44, .	4.2	91
97	Combined effects of leaf litter inputs and a flood on nutrient retention in a Mediterranean mountain stream during fall. <i>Limnology and Oceanography</i> , 2008, 53, 631-641.	3.1	43
98	Variability in surface-subsurface hydrologic interactions and implications for nutrient retention in an arid-land stream. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	34
99	Exploring the ecological status of human altered streams through Generative Topographic Mapping. <i>Environmental Modelling and Software</i> , 2007, 22, 1053-1065.	4.5	11
100	Effects of nutrients and light on periphyton biomass and nitrogen uptake in Mediterranean streams with contrasting land uses. <i>Freshwater Biology</i> , 2007, 52, 891-906.	2.4	131
101	Net changes in nutrient concentrations below a point source input in two streams draining catchments with contrasting land uses. <i>Science of the Total Environment</i> , 2005, 347, 217-229.	8.0	93
102	Recovery of the macroinvertebrate community below a wastewater treatment plant input in a Mediterranean stream. <i>Hydrobiologia</i> , 2005, 545, 289-302.	2.0	37
103	Hydrologic exchange and N uptake by riparian vegetation in an arid-land stream. <i>Journal of the North American Benthological Society</i> , 2005, 24, 19-28.	3.1	47
104	Carbon and nitrogen stoichiometry and nitrogen cycling rates in streams. <i>Oecologia</i> , 2004, 140, 458-467.	2.0	108
105	Nutrient Retention Efficiency in Streams Receiving Inputs from Wastewater Treatment Plants. <i>Journal of Environmental Quality</i> , 2004, 33, 285-293.	2.0	176
106	Nutrient Retention Efficiency in Streams Receiving Inputs from Wastewater Treatment Plants. <i>Journal of Environmental Quality</i> , 2004, 33, 285.	2.0	41
107	Carbon and nitrogen transfer from a desert stream to riparian predators. <i>Oecologia</i> , 2003, 134, 238-250.	2.0	185
108	Factors affecting ammonium uptake in streams - an inter-biome perspective. <i>Freshwater Biology</i> , 2003, 48, 1329-1352.	2.4	233

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109	Can uptake length in streams be determined by nutrient addition experiments? Results from an interbiome comparison study. <i>Journal of the North American Benthological Society</i> , 2002, 21, 544-560.	3.1	186
110	N uptake as a function of concentration in streams. <i>Journal of the North American Benthological Society</i> , 2002, 21, 206-220.	3.1	222
111	Evaluation of the environmental implications to include structural changes in a wastewater treatment plant. <i>Journal of Chemical Technology and Biotechnology</i> , 2002, 77, 1206-1211.	3.2	38
112	Sources of Nitrogen to the Riparian Zone of a Desert Stream: Implications for Riparian Vegetation and Nitrogen Retention. <i>Ecosystems</i> , 2002, 5, 68-79.	3.4	73
113	Control of Nitrogen Export from Watersheds by Headwater Streams. <i>Science</i> , 2001, 292, 86-90.	12.6	1,209
114	Inter-biome comparison of factors controlling stream metabolism. <i>Freshwater Biology</i> , 2001, 46, 1503-1517.	2.4	360
115	Towards a holistic view of nutrient dynamics in fluvial ecosystems. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 3111-3116.	0.1	1
116	Flood Frequency and Streamâ€“Riparian Linkages in Arid Lands. , 2000, , 111-136.		33
117	Hydrological and chemical linkages between the active channel and the riparian zone in an arid land stream. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 442-447.	0.1	3
118	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.	3.1	136
119	Hierarchy, spatial configuration, and nutrient cycling in a desert stream. <i>Austral Ecology</i> , 1998, 23, 41-52.	1.5	81
120	Material Spiraling in Stream Corridors: A Telescoping Ecosystem Model. <i>Ecosystems</i> , 1998, 1, 19-34.	3.4	259
121	Pre- and Post-Flood Retention Efficiency of Nitrogen in a Sonoran Desert Stream. <i>Journal of the North American Benthological Society</i> , 1997, 16, 805-819.	3.1	126
122	High Variability in Temporal and Spatial Nutrient Retention in Mediterranean Streams. <i>Ecology</i> , 1996, 77, 854-869.	3.2	151
123	Nutrient enrichment effects on biofilm metabolism in a Mediterranean stream. <i>Freshwater Biology</i> , 1995, 33, 373-383.	2.4	69
124	Respiratory electron transport system (ETS) activity in Spanish reservoirs: relationships with nutrients and seston. <i>Journal of Plankton Research</i> , 1995, 17, 513-530.	1.8	1
125	Science and Management of Intermittent Rivers and Ephemeral Streams (SMIRES). <i>Research Ideas and Outcomes</i> , 0, 3, e21774.	1.0	33
126	Nutrient availability modulates the effect of water abstraction on the metabolism of 2 lowland forested streams. <i>Freshwater Science</i> , 0, , .	1.8	2