

# Vicen Acua

## 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

4,807  
citations

42  
h-index

66  
g-index

114  
ext. papers

5,641  
ext. citations

7.5  
avg, IF

5.7  
L-index

#	Paper	IF	Citations
113	Duration of water flow interruption drives the structure and functional diversity of stream benthic diatoms. <i>Science of the Total Environment</i> , <b>2021</b> , 770, 144675	10.2	3
112	Biofilm pigments in temporary streams indicate duration and severity of drying. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 3313-3326	4.8	0
111	Combined effects of urban pollution and hydrological stress on ecosystem functions of Mediterranean streams. <i>Science of the Total Environment</i> , <b>2021</b> , 753, 141971	10.2	9
110	Climatic aridity increases temporal nestedness of invertebrate communities in naturally drying rivers. <i>Ecography</i> , <b>2021</b> , 44, 860-869	6.5	1
109	A guideline to frame stressor effects in freshwater ecosystems. <i>Science of the Total Environment</i> , <b>2021</b> , 777, 146112	10.2	4
108	Ecosystem services of temporary streams differ between wet and dry phases in regions with contrasting climates and economies. <i>People and Nature</i> , <b>2020</b> , 2, 660-677	5.9	11
107	Accounting for flow intermittency in environmental flows design. <i>Journal of Applied Ecology</i> , <b>2020</b> , 57, 742-753	5.8	16
106	Multiple Stressors Determine Community Structure and Estimated Function of River Biofilm Bacteria. <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 86,	4.8	5
105	Does biofilm origin matter? Biofilm responses to non-flow period in permanent and temporary streams. <i>Freshwater Biology</i> , <b>2020</b> , 65, 514-523	3.1	5
104	Aquatic macroinvertebrates under stress: Bioaccumulation of emerging contaminants and metabolomics implications. <i>Science of the Total Environment</i> , <b>2020</b> , 704, 135333	10.2	10
103	Duration and frequency of non-flow periods affect the abundance and diversity of stream meiofauna. <i>Freshwater Biology</i> , <b>2020</b> , 65, 1906-1922	3.1	6
102	Management actions to mitigate the occurrence of pharmaceuticals in river networks in a global change context. <i>Environment International</i> , <b>2020</b> , 143, 105993	12.9	7
101	Down scaling of climate change scenarii to river basin level: A transdisciplinary methodology applied to Evrotas river basin, Greece. <i>Science of the Total Environment</i> , <b>2019</b> , 660, 1623-1632	10.2	11
100	Invertebrate community responses to urban wastewater effluent pollution under different hydro-morphological conditions. <i>Environmental Pollution</i> , <b>2019</b> , 252, 483-492	9.3	16
99	Nutrient attenuation dynamics in effluent dominated watercourses. <i>Water Research</i> , <b>2019</b> , 160, 330-338	12.5	10
98	Effects of Duration, Frequency, and Severity of the Non-flow Period on Stream Biofilm Metabolism. <i>Ecosystems</i> , <b>2019</b> , 22, 1393-1405	3.9	19
97	Coupling scenarios of climate and land-use change with assessments of potential ecosystem services at the river basin scale. <i>Ecosystem Services</i> , <b>2019</b> , 40, 101045	6.1	32

96	Effects of multiple stressors on river biofilms depend on the time scale. <i>Scientific Reports</i> , <b>2019</b> , 9, 15810.	4.9	12
95	GLOBAL-FATE (version 1.0.0): A geographical information system (GIS)-based model for assessing contaminants fate in the global river network. <i>Geoscientific Model Development</i> , <b>2019</b> , 12, 5213-5228	6.3	9
94	Managing Ecosystem Services Under Multiple Stresses <b>2019</b> , 303-313		3
93	Immediate and legacy effects of urban pollution on river ecosystem functioning: A mesocosm experiment. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 169, 960-970	7	16
92	Desiccation events change the microbial response to gradients of wastewater effluent pollution. <i>Water Research</i> , <b>2019</b> , 151, 371-380	12.5	21
91	Global patterns and drivers of ecosystem functioning in rivers and riparian zones. <i>Science Advances</i> , <b>2019</b> , 5, eaav0486	14.3	70
90	Impact of fullerenes in the bioaccumulation and biotransformation of venlafaxine, diuron and triclosan in river biofilms. <i>Environmental Research</i> , <b>2019</b> , 169, 377-386	7.9	15
89	Impact and mitigation of global change on freshwater-related ecosystem services in Southern Europe. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 895-908	10.2	21
88	Multistressor effects on river biofilms under global change conditions. <i>Science of the Total Environment</i> , <b>2018</b> , 627, 1-10	10.2	20
87	Emerging contaminants and nutrients synergistically affect the spread of class 1 integron-integrase (int1) and sul1 genes within stable streambed bacterial communities. <i>Water Research</i> , <b>2018</b> , 138, 77-85	12.5	44
86	Does the severity of non-flow periods influence ecosystem structure and function of temporary streams? A mesocosm study. <i>Freshwater Biology</i> , <b>2018</b> , 63, 613-625	3.1	8
85	Effects of chronic pollution and water flow intermittency on stream biofilms biodegradation capacity. <i>Environmental Pollution</i> , <b>2018</b> , 233, 1131-1137	9.3	11
84	Uncertainty of modelled flow regime for flow-ecological assessment in Southern Europe. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 1028-1047	10.2	26
83	Effects of human-driven water stress on river ecosystems: a meta-analysis. <i>Scientific Reports</i> , <b>2018</b> , 8, 11462	4.9	70
82	Fullerenes Influence the Toxicity of Organic Micro-Contaminants to River Biofilms. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 1426	5.7	11
81	Evolutionary responses of aquatic macroinvertebrates to two contrasting flow regimes. <i>Hydrobiologia</i> , <b>2018</b> , 808, 353-370	2.4	8
80	Protecting U.S. temporary waterways. <i>Science</i> , <b>2018</b> , 361, 856-857	33.3	23
79	Balancing environmental quality standards and infrastructure upgrade costs for the reduction of microcontaminant loads in rivers. <i>Water Research</i> , <b>2018</b> , 143, 632-641	12.5	10

78	Managing temporary streams and rivers as unique rather than second-class ecosystems. <i>Biological Conservation</i> , <b>2017</b> , 211, 12-19	6.2	63
77	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
76	River ecosystem processes: A synthesis of approaches, criteria of use and sensitivity to environmental stressors. <i>Science of the Total Environment</i> , <b>2017</b> , 596-597, 465-480	10.2	66
75	Forestry affects the abundance of Phormidium-dominated biofilms and the functioning of a New Zealand river ecosystem. <i>Marine and Freshwater Research</i> , <b>2017</b> , 68, 1741	2.2	5
74	Conserving small natural features with large ecological roles: A synthetic overview. <i>Biological Conservation</i> , <b>2017</b> , 211, 88-95	6.2	73
73	Fate of organic microcontaminants in wastewater treatment and river systems: An uncertainty assessment in view of sampling strategy, and compound consumption rate and degradability. <i>Water Research</i> , <b>2017</b> , 125, 152-161	12.5	14
72	Regulation causes nitrogen cycling discontinuities in Mediterranean rivers. <i>Science of the Total Environment</i> , <b>2016</b> , 540, 168-77	10.2	24
71	Determination of a broad spectrum of pharmaceuticals and endocrine disruptors in biofilm from a waste water treatment plant-impacted river. <i>Science of the Total Environment</i> , <b>2016</b> , 540, 241-9	10.2	104
70	Bioaccumulation and trophic magnification of pharmaceuticals and endocrine disruptors in a Mediterranean river food web. <i>Science of the Total Environment</i> , <b>2016</b> , 540, 250-9	10.2	94
69	Low contribution of internal metabolism to carbon dioxide emissions along lotic and lentic environments of a Mediterranean fluvial network. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2016</b> , 121, 3030-3044	3.7	13
68	Microbial carbon processing along a river discontinuum. <i>Freshwater Science</i> , <b>2016</b> , 35, 1133-1147	2	10
67	Is river rehabilitation economically viable in water-scarce basins?. <i>Environmental Science and Policy</i> , <b>2016</b> , 61, 154-164	6.2	13
66	El Niño southern oscillation and seasonal drought drive riparian input dynamics in a Mediterranean stream. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 214-226	4.8	9
65	Nutrients versus emerging contaminants-Or a dynamic match between subsidy and stress effects on stream biofilms. <i>Environmental Pollution</i> , <b>2016</b> , 212, 208-215	9.3	35
64	When Water Vanishes: Magnitude and Regulation of Carbon Dioxide Emissions from Dry Temporary Streams. <i>Ecosystems</i> , <b>2016</b> , 19, 710-723	3.9	54
63	Analysis of the uncertainty in the monetary valuation of ecosystem services--A case study at the river basin scale. <i>Science of the Total Environment</i> , <b>2016</b> , 543, 683-690	10.2	46
62	Model development for the assessment of terrestrial and aquatic habitat quality in conservation planning. <i>Science of the Total Environment</i> , <b>2016</b> , 540, 63-70	10.2	156
61	Stream Biofilm Responses to Flow Intermittency: From Cells to Ecosystems. <i>Frontiers in Environmental Science</i> , <b>2016</b> , 4,	4.8	59

60	Integrating ecosystem services in river basin management plans. <i>Journal of Applied Ecology</i> , <b>2016</b> , 53, 865-875	5.8	34
59	Identifying regions vulnerable to habitat degradation under future irrigation scenarios. <i>Environmental Research Letters</i> , <b>2016</b> , 11, 114025	6.2	6
58	Placing ecosystem services at the heart of urban water systems management. <i>Science of the Total Environment</i> , <b>2016</b> , 563-564, 1078-85	10.2	32
57	Attenuation of pharmaceuticals and their transformation products in a wastewater treatment plant and its receiving river ecosystem. <i>Water Research</i> , <b>2016</b> , 100, 126-136	12.5	66
56	Flow regulation increases food-chain length through omnivory mechanisms in a Mediterranean river network. <i>Freshwater Biology</i> , <b>2016</b> , 61, 1536-1549	3.1	20
55	Hot spots for carbon emissions from Mediterranean fluvial networks during summer drought. <i>Biogeochemistry</i> , <b>2015</b> , 125, 409-426	3.8	42
54	Balancing the health benefits and environmental risks of pharmaceuticals: Diclofenac as an example. <i>Environment International</i> , <b>2015</b> , 85, 327-33	12.9	115
53	Ecosystem Responses to Emerging Contaminants: Fate and Effects of Pharmaceuticals in a Mediterranean River. <i>Handbook of Environmental Chemistry</i> , <b>2015</b> , 143-158	0.8	
52	Biofilm Responses to Flow Regulation by Dams in Mediterranean Rivers. <i>River Research and Applications</i> , <b>2015</b> , 31, 1003-1016	2.3	20
51	Occurrence and in-stream attenuation of wastewater-derived pharmaceuticals in Iberian rivers. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 133-41	10.2	83
50	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
49	Managing the effects of multiple stressors on aquatic ecosystems under water scarcity. The GLOBAQUA project. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 3-9	10.2	128
48	Sensitivity analysis of a sediment dynamics model applied in a Mediterranean river basin: global change and management implications. <i>Science of the Total Environment</i> , <b>2015</b> , 502, 602-10	10.2	29
47	Development of an extraction and purification method for the determination of multi-class pharmaceuticals and endocrine disruptors in freshwater invertebrates. <i>Talanta</i> , <b>2015</b> , 132, 373-81	6.2	62
46	Mixed effects of effluents from a wastewater treatment plant on river ecosystem metabolism: subsidy or stress?. <i>Freshwater Biology</i> , <b>2015</b> , 60, 1398-1410	3.1	76
45	Increasing extent of periods of no flow in intermittent waterways promotes heterotrophy. <i>Freshwater Biology</i> , <b>2015</b> , 60, 1810-1823	3.1	35
44	Hydrological transitions drive dissolved organic matter quantity and composition in a temporary Mediterranean stream. <i>Biogeochemistry</i> , <b>2015</b> , 123, 429-446	3.8	37
43	Flood disturbance effects on benthic diatom assemblage structure in a semiarid river network. <i>Journal of Phycology</i> , <b>2015</b> , 51, 133-43	3	7

42	Biofilm functional responses to the rehydration of a dry intermittent stream. <i>Hydrobiologia</i> , <b>2014</b> , 727, 185-195	2.4	24
41	Conservation. Why should we care about temporary waterways?. <i>Science</i> , <b>2014</b> , 343, 1080-1	33.3	216
40	Flow regulation by dams affects ecosystem metabolism in Mediterranean rivers. <i>Freshwater Biology</i> , <b>2014</b> , 59, 1816-1829	3.1	49
39	Impact of climate extremes on hydrological ecosystem services in a heavily humanized Mediterranean basin. <i>Ecological Indicators</i> , <b>2014</b> , 37, 199-209	5.8	112
38	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
37	Carbon dioxide emissions from dry watercourses. <i>Inland Waters</i> , <b>2014</b> , 4, 377-382	2.4	57
36	The dynamics of biofilm bacterial communities is driven by flow wax and wane in a temporary stream. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 2057-2067	4.8	25
35	Working together: A call for inclusive conservation. <i>Nature</i> , <b>2014</b> , 515, 27-8	50.4	203
34	Photosynthetic pigment changes and adaptations in biofilms in response to flow intermittency. <i>Aquatic Sciences</i> , <b>2014</b> , 76, 565-578	2.5	21
33	Assessment of the water supply:demand ratios in a Mediterranean basin under different global change scenarios and mitigation alternatives. <i>Science of the Total Environment</i> , <b>2014</b> , 470-471, 567-77	10.2	124
32	Ecosystem services in Mediterranean river basin: climate change impact on water provisioning and erosion control. <i>Science of the Total Environment</i> , <b>2013</b> , 458-460, 246-55	10.2	139
31	Seasonal weather effects on hydrology drive the metabolism of non-forest lowland streams. <i>Hydrobiologia</i> , <b>2013</b> , 716, 47-58	2.4	11
30	Examining the Demand for Ecosystem Services: The Value of Stream Restoration for Drinking Water Treatment Managers in the Llobregat River, Spain. <i>Ecological Economics</i> , <b>2013</b> , 90, 196-205	5.6	36
29	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
28	Integration of freshwater environmental policies and wastewater treatment plant management. <i>Science of the Total Environment</i> , <b>2013</b> , 445-446, 185-91	10.2	21
27	Does it make economic sense to restore rivers for their ecosystem services?. <i>Journal of Applied Ecology</i> , <b>2013</b> , 50, 988-997	5.8	65
26	Functional responses of stream biofilms to flow cessation, desiccation and rewetting. <i>Freshwater Biology</i> , <b>2012</b> , 57, 1565-1578	3.1	82
25	Sensitivity analysis of ecosystem service valuation in a Mediterranean watershed. <i>Science of the Total Environment</i> , <b>2012</b> , 440, 140-53	10.2	78

24	Assessing and forecasting the impacts of global change on Mediterranean rivers. The SCARCE Consolider project on Iberian basins. <i>Environmental Science and Pollution Research</i> , <b>2012</b> , 19, 918-33	5.1	43
23	Ecosystem Services in an Impacted Watershed. <i>Handbook of Environmental Chemistry</i> , <b>2012</b> , 347-368	0.8	1
22	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
21	Development of a mechanistic model (ERIMO-I) for analyzing the temporal dynamics of the benthic community of an intermittent Mediterranean stream. <i>Ecological Modelling</i> , <b>2011</b> , 222, 91-104	3	2
20	Contraction, fragmentation and expansion dynamics determine nutrient availability in a Mediterranean forest stream. <i>Aquatic Sciences</i> , <b>2011</b> , 73, 485-497	2.5	78
19	As productive and slow as a stream can be the metabolism of a Pampean stream. <i>Journal of the North American Benthological Society</i> , <b>2011</b> , 30, 71-83		48
18	The effects of alterations in temperature and flow regime on organic carbon dynamics in Mediterranean river networks. <i>Global Change Biology</i> , <b>2010</b> , 16, 2638	11.4	32
17	Thermal Heterogeneity in River Floodplains. <i>Ecosystems</i> , <b>2010</b> , 13, 727-740	3.9	62
16	Flow regime alteration effects on the organic C dynamics in semiarid stream ecosystems. <i>Hydrobiologia</i> , <b>2010</b> , 657, 233-242	2.4	10
15	A field-based investigation to examine underwater soundscapes of five common river habitats. <i>Hydrological Processes</i> , <b>2010</b> , 24, 3146-3156	3.3	33
14	Flow regime alteration effects on the organic C dynamics in semiarid stream ecosystems <b>2010</b> , 233-242		
13	Surface subsurface water exchange rates along alluvial river reaches control the thermal patterns in an Alpine river network. <i>Freshwater Biology</i> , <b>2009</b> , 54, 306-320	3.1	35
12	Estimating stream metabolism from oxygen concentrations: Effect of spatial heterogeneity. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		63
11	Temperature dependence of stream benthic respiration in an Alpine river network under global warming. <i>Freshwater Biology</i> , <b>2008</b> , 53, 2076-2088	3.1	92
10	Effect of climate on the trophic structure of temperate forested streams. a comparison of Mediterranean and Atlantic streams. <i>Science of the Total Environment</i> , <b>2008</b> , 390, 475-84	10.2	48
9	Impact of monsoonal rains on spatial scaling patterns in water chemistry of a semiarid river network. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		11
8	Meteorological and riparian influences on organic matter dynamics in a forested Mediterranean stream. <i>Journal of the North American Benthological Society</i> , <b>2007</b> , 26, 54-69		75
7	Drought and postdrought recovery cycles in an intermittent Mediterranean stream: structural and functional aspects. <i>Journal of the North American Benthological Society</i> , <b>2005</b> , 24, 919-933		210

6	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
5	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
4	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
3	Flow extremes and benthic organic matter shape the metabolism of a headwater Mediterranean stream. <i>Freshwater Biology</i> , <b>2004</b> , 49, 960-971	3.1	146
2	Science and Management of Intermittent Rivers and Ephemeral Streams (SMIRES). <i>Research Ideas and Outcomes</i> , 3, e21774	2.5	21
1	Nutrient stream attenuation is altered by the duration and frequency of flow intermittency. <i>Ecohydrology</i> , e2351	2.5	