

# Eric Chauvet

## List of Publications by Year in descending order

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Version: 2024-02-01

121  
papers

10,586  
citations

34016

52  
h-index

34900

98  
g-index

132  
all docs

132  
docs citations

132  
times ranked

7086  
citing authors

#	ARTICLE	IF	CITATIONS
1	The combination of chemical, structural, and functional indicators to evaluate the anthropogenic impacts on agricultural stream ecosystems. <i>Environmental Science and Pollution Research</i> , 2022, 29, 29296-29313.	2.7	3
2	Energetic mismatch induced by warming decreases leaf litter decomposition by aquatic detritivores. <i>Journal of Animal Ecology</i> , 2022, 91, 1975-1987.	1.3	1
3	The importance of intraspecific variation in litter consumption rate of aquatic and terrestrial macro-detritivores. <i>Basic and Applied Ecology</i> , 2022, , .	1.2	3
4	Latitude dictates plant diversity effects on instream decomposition. <i>Science Advances</i> , 2021, 7, .	4.7	27
5	Impacts of detritivore diversity loss on instream decomposition are greatest in the tropics. <i>Nature Communications</i> , 2021, 12, 3700.	5.8	33
6	Variable temperature effects between heterotrophic stream processes and organisms. <i>Freshwater Biology</i> , 2020, 65, 1543-1554.	1.2	14
7	Temperature and nutrient effects on the relative importance of brown and green pathways for stream ecosystem functioning: A mesocosm approach. <i>Freshwater Biology</i> , 2020, 65, 1239-1255.	1.2	12
8	Inoculation of Leaf Litter with Aquatic Hyphomycetes. , 2020, , 527-531.		3
9	Repeatable inter-individual variation in the thermal sensitivity of metabolic rate. <i>Oikos</i> , 2019, 128, 1633-1640.	1.2	24
10	Biodiversity of leaf litter fungi in streams along a latitudinal gradient. <i>Science of the Total Environment</i> , 2019, 661, 306-315.	3.9	53
11	Consumer responses to resource patch size and architecture: leaf packs in streams. <i>Fundamental and Applied Limnology</i> , 2019, 192, 255-261.	0.4	2
12	Litter Quality Modulates Effects of Dissolved Nitrogen on Leaf Decomposition by Stream Microbial Communities. <i>Microbial Ecology</i> , 2019, 77, 959-966.	1.4	36
13	Seasonal variations overwhelm temperature effects on microbial processes in headwater streams: insights from a temperate thermal spring. <i>Aquatic Sciences</i> , 2019, 81, 1.	0.6	13
14	Global patterns and drivers of ecosystem functioning in rivers and riparian zones. <i>Science Advances</i> , 2019, 5, eaav0486.	4.7	133
15	Rapid characterization of aquatic hyphomycetes by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Mycologia</i> , 2019, 111, 177-189.	0.8	7
16	Nutritive value and physical and chemical deterrents of forage grass litter explain feeding performances of two soil macrodetritivores. <i>Applied Soil Ecology</i> , 2019, 133, 81-88.	2.1	5
17	Hydrological contingency: drying history affects aquatic microbial decomposition. <i>Aquatic Sciences</i> , 2018, 80, 1.	0.6	20
18	Leaf litter decomposition in Guinean savannah streams. <i>Inland Waters</i> , 2018, 8, 413-421.	1.1	5

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19	Phenotypic determinants of inter-individual variability of litter consumption rate in a detritivore population. <i>Oikos</i> , 2018, 127, 1670-1678.	1.2	12
20	Two microcrustaceans affect microbial and macroinvertebrate-driven litter breakdown. <i>Freshwater Biology</i> , 2017, 62, 530-543.	1.2	12
21	Scale dependency in the hydromorphological control of a stream ecosystem functioning. <i>Water Research</i> , 2017, 115, 60-73.	5.3	11
22	Tropical shift in decomposers' relative contribution to leaf litter breakdown in two Guinean streams. <i>Biotropica</i> , 2017, 49, 439-442.	0.8	3
23	Riparian plant litter quality increases with latitude. <i>Scientific Reports</i> , 2017, 7, 10562.	1.6	53
24	The Biota of Intermittent Rivers and Ephemeral Streams: Prokaryotes, Fungi, and Protozoans. , 2017, , 161-188.		28
25	Toxicity of CeO <sub>2</sub> nanoparticles on a freshwater experimental trophic chain: A study in environmentally relevant conditions through the use of mesocosms. <i>Nanotoxicology</i> , 2016, 10, 1-11.	1.6	32
26	Litter Decomposition as an Indicator of Stream Ecosystem Functioning at Local-to-Continental Scales. <i>Advances in Ecological Research</i> , 2016, 55, 99-182.	1.4	60
27	Stoichiometric imbalances between detritus and detritivores are related to shifts in ecosystem functioning. <i>Oikos</i> , 2016, 125, 861-871.	1.2	54
28	Dam-associated multiple-stressor impacts on fungal biomass and richness reveal the initial signs of ecosystem functioning impairment. <i>Ecological Indicators</i> , 2016, 60, 1077-1090.	2.6	21
29	Effects of radionuclide contamination on leaf litter decomposition in the Chernobyl exclusion zone. <i>Science of the Total Environment</i> , 2016, 562, 596-603.	3.9	36
30	Biotic and abiotic variables influencing plant litter breakdown in streams: a global study. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152664.	1.2	86
31	Impact of CeO <sub>2</sub> nanoparticles on the functions of freshwater ecosystems: a microcosm study. <i>Environmental Science: Nano</i> , 2016, 3, 830-838.	2.2	30
32	Litter breakdown for ecosystem integrity assessment also applies to streams affected by pesticides. <i>Hydrobiologia</i> , 2016, 773, 87-102.	1.0	14
33	Beyond the water column: aquatic hyphomycetes outside their preferred habitat. <i>Fungal Ecology</i> , 2016, 19, 112-127.	0.7	87
34	Aquatic hyphomycetes and litter decomposition in tropical " subtropical low order streams. <i>Fungal Ecology</i> , 2016, 19, 182-189.	0.7	54
35	Latitudinal gradient of nestedness and its potential drivers in stream detritivores. <i>Ecography</i> , 2015, 38, 949-955.	2.1	19
36	Fungal alteration of the elemental composition of leaf litter affects shredder feeding activity. <i>Freshwater Biology</i> , 2015, 60, 1755-1771.	1.2	32

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37	Biodiversity and litter decomposition: a case study in a Mediterranean stream. <i>Freshwater Science</i> , 2015, 34, 423-430.	0.9	7
38	Leaf litter degradation in highly turbid transitional waters: preliminary results from litter-bag experiments in the Gironde Estuary. <i>Geodinamica Acta</i> , 2015, 27, 60-66.	2.2	5
39	A meta-analysis of the effects of nutrient enrichment on litter decomposition in streams. <i>Biological Reviews</i> , 2015, 90, 669-688.	4.7	208
40	Effects of experimental warming, litter species, and presence of macroinvertebrates on litter decomposition and associated decomposers in a temperate mountain stream. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 206-216.	0.7	49
41	Leaf-associated fungal diversity in acidified streams: insights from combining traditional and molecular approaches. <i>Environmental Microbiology</i> , 2014, 16, 2145-2156.	1.8	21
42	Consequences of biodiversity loss for litter decomposition across biomes. <i>Nature</i> , 2014, 509, 218-221.	13.7	600
43	Relative influence of shredders and fungi on leaf litter decomposition along a river altitudinal gradient. <i>Hydrobiologia</i> , 2014, 721, 239-250.	1.0	46
44	Top-down and bottom-up control of litter decomposers in streams. <i>Freshwater Biology</i> , 2014, 59, 2172-2182.	1.2	39
45	Litter identity mediates predator impacts on the functioning of an aquatic detritus-based food web. <i>Oecologia</i> , 2014, 176, 225-235.	0.9	29
46	Aquatic Hyphomycete Species Are Screened by the Hyporheic Zone of Woodland Streams. <i>Applied and Environmental Microbiology</i> , 2014, 80, 1949-1960.	1.4	22
47	Elemental composition and degree of homeostasis of fungi: are aquatic hyphomycetes more like metazoans, bacteria or plants?. <i>Fungal Ecology</i> , 2013, 6, 453-457.	0.7	50
48	Trophic complexity enhances ecosystem functioning in an aquatic detritus-based model system. <i>Journal of Animal Ecology</i> , 2013, 82, 1042-1051.	1.3	65
49	Diversity patterns of leaf-associated aquatic hyphomycetes along a broad latitudinal gradient. <i>Fungal Ecology</i> , 2013, 6, 439-448.	0.7	45
50	Benthic algae stimulate leaf litter decomposition in detritus-based headwater streams: a case of aquatic priming effect?. <i>Ecology</i> , 2013, 94, 1604-1613.	1.5	165
51	Coarse particulate organic matter in the interstitial zone of three French headwater streams. <i>Annales De Limnologie</i> , 2012, 48, 303-313.	0.6	11
52	The role of organisms in hyporheic processes: gaps in current knowledge, needs for future research and applications. <i>Annales De Limnologie</i> , 2012, 48, 253-266.	0.6	81
53	Effect of acidification on leaf litter decomposition in benthic and hyporheic zones of woodland streams. <i>Water Research</i> , 2012, 46, 6430-6444.	5.3	31
54	Continental-Scale Effects of Nutrient Pollution on Stream Ecosystem Functioning. <i>Science</i> , 2012, 336, 1438-1440.	6.0	520

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55	Effect of cerium on structure modifications of a hybrid sol-gel coating, its mechanical properties and anti-corrosion behavior. <i>Materials Research Bulletin</i> , 2012, 47, 3170-3176.	2.7	66
56	Fine sediment on leaves: shredder removal of sediment does not enhance fungal colonisation. <i>Aquatic Sciences</i> , 2012, 74, 527-538.	0.6	14
57	Global patterns of stream detritivore distribution: implications for biodiversity loss in changing climates. <i>Global Ecology and Biogeography</i> , 2012, 21, 134-141.	2.7	114
58	Effects of burial on leaf litter quality, microbial conditioning and palatability to three shredder taxa. <i>Freshwater Biology</i> , 2012, 57, 1017-1030.	1.2	64
59	Fungi are involved in the effects of litter mixtures on consumption by shredders. <i>Freshwater Biology</i> , 2012, 57, 1667-1677.	1.2	33
60	Sedimentary context controls the influence of ecosystem engineering by bioturbators on microbial processes in river sediments. <i>Oikos</i> , 2012, 121, 1134-1144.	1.2	36
61	Changes in dominance among species in aquatic hyphomycete assemblages do not affect litter decomposition rates. <i>Aquatic Microbial Ecology</i> , 2012, 66, 1-11.	0.9	19
62	Stream Ecosystem Functioning in an Agricultural Landscape. <i>Advances in Ecological Research</i> , 2011, , 211-276.	1.4	78
63	A global experiment suggests climate warming will not accelerate litter decomposition in streams but might reduce carbon sequestration. <i>Ecology Letters</i> , 2011, 14, 289-294.	3.0	256
64	Litter diversity, fungal decomposers and litter decomposition under simulated stream intermittency. <i>Functional Ecology</i> , 2011, 25, 1269-1277.	1.7	72
65	Synergistic effects of water temperature and dissolved nutrients on litter decomposition and associated fungi. <i>Global Change Biology</i> , 2011, 17, 551-564.	4.2	208
66	Global distribution of a key trophic guild contrasts with common latitudinal diversity patterns. <i>Ecology</i> , 2011, 92, 1839-1848.	1.5	162
67	Future increase in temperature more than decrease in litter quality can affect microbial litter decomposition in streams. <i>Oecologia</i> , 2011, 167, 279-291.	0.9	89
68	Water-Sediment Exchanges Control Microbial Processes Associated with Leaf Litter Degradation in the Hyporheic Zone: a Microcosm Study. <i>Microbial Ecology</i> , 2011, 61, 968-979.	1.4	47
69	Relevance of large litter bag burial for the study of leaf breakdown in the hyporheic zone. <i>Hydrobiologia</i> , 2010, 641, 203-214.	1.0	15
70	Early stages of leaf decomposition are mediated by aquatic fungi in the hyporheic zone of woodland streams. <i>Freshwater Biology</i> , 2010, 55, 2541-2556.	1.2	86
71	Interactions between fauna and sediment control the breakdown of plant matter in river sediments. <i>Freshwater Biology</i> , 2010, 55, 753-766.	1.2	55
72	Leaf diversity influences in-stream litter decomposition through effects on shredders. <i>Freshwater Biology</i> , 2009, 54, 1671-1682.	1.2	55

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73	Effects of intense agricultural practices on heterotrophic processes in streams. <i>Environmental Pollution</i> , 2009, 157, 1011-1018.	3.7	108
74	Temperature oscillation coupled with fungal community shifts can modulate warming effects on litter decomposition. <i>Ecology</i> , 2009, 90, 122-131.	1.5	162
75	Elevated Aluminium Concentration in Acidified Headwater Streams Lowers Aquatic Hyphomycete Diversity and Impairs Leaf-Litter Breakdown. <i>Microbial Ecology</i> , 2008, 56, 260-269.	1.4	55
76	Alteration of leaf decomposition in copper-contaminated freshwater mesocosms. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 637-644.	2.2	46
77	Seasonal dynamics of benthic detritus and associated macroinvertebrate communities in a neotropical stream. <i>Fundamental and Applied Limnology</i> , 2008, 171, 323-333.	0.4	12
78	Out of the rivers: are some aquatic hyphomycetes plant endophytes?. <i>New Phytologist</i> , 2008, 178, 3-7.	3.5	90
79	Diversity and functions of leaf-decaying fungi in human-altered streams. <i>Freshwater Biology</i> , 2008, 53, 1658-1672.	1.2	81
80	Intraspecific variability in leaf traits strongly affects alder leaf decomposition in a stream. <i>Basic and Applied Ecology</i> , 2008, 9, 598-605.	1.2	205
81	Influence of conidial traits and leaf structure on attachment success of aquatic hyphomycetes on leaf litter. <i>Mycologia</i> , 2007, 99, 24-32.	0.8	36
82	DECOMPOSITION OF DIVERSE LITTER MIXTURES IN STREAMS. <i>Ecology</i> , 2007, 88, 219-227.	1.5	183
83	Influence of conidial traits and leaf structure on attachment success of aquatic hyphomycetes on leaf litter. <i>Mycologia</i> , 2007, 99, 24-32.	0.8	62
84	Stream ecosystems respond to riparian invasion by Japanese knotweed ( <i>Fallopia japonica</i> ). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007, 64, 1273-1283.	0.7	86
85	Leaf litter breakdown budgets in streams of various trophic status: effects of dissolved inorganic nutrients on microorganisms and invertebrates. <i>Freshwater Biology</i> , 2007, 52, 1322-1335.	1.2	116
86	A fungal endophyte of black spruce ( <i>Picea mariana</i> ) needles is also an aquatic hyphomycete. <i>Molecular Ecology</i> , 2006, 15, 1955-1962.	2.0	51
87	Contribution of Chemoautotrophic Production to Freshwater Macroinvertebrates in a Headwater Stream Using Multiple Stable Isotopes. <i>International Review of Hydrobiology</i> , 2006, 91, 501-508.	0.5	15
88	Assessment of functional integrity of eutrophic streams using litter breakdown and benthic macroinvertebrates. <i>Archiv für Hydrobiologie</i> , 2006, 165, 105-126.	1.1	105
89	Magnitude and variability of process rates in fungal diversity-litter decomposition relationships. <i>Ecology Letters</i> , 2005, 8, 1129-1137.	3.0	235
90	Riparian plant species loss alters trophic dynamics in detritus-based stream ecosystems. <i>Oecologia</i> , 2005, 146, 432-442.	0.9	175

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91	Vegetation diversity increases species richness of leaf-decaying fungal communities in woodland streams. <i>Archiv Für Hydrobiologie</i> , 2005, 164, 217-235.	1.1	59
92	Genetic diversity in <i>Tetrachaetum elegans</i> , a mitosporic aquatic fungus. <i>Molecular Ecology</i> , 2004, 13, 1679-1692.	2.0	18
93	Impacts of stream acidification on litter breakdown: implications for assessing ecosystem functioning. <i>Journal of Applied Ecology</i> , 2004, 41, 365-378.	1.9	222
94	The Role of Biodiversity in the Functioning of Freshwater and Marine Benthic Ecosystems. <i>BioScience</i> , 2004, 54, 767.	2.2	296
95	Competitive Interaction between Two Aquatic Hyphomycete Species and Increase in Leaf Litter Breakdown. <i>Microbial Ecology</i> , 2004, 48, 439-446.	1.4	83
96	Effects of stream acidification on fungal biomass in decaying beech leaves and leaf palatability. <i>Water Research</i> , 2003, 37, 533-538.	5.3	53
97	Microbial dynamics associated with leaves decomposing in the mainstem and floodplain pond of a large river. <i>Aquatic Microbial Ecology</i> , 2002, 28, 25-36.	0.9	113
98	Breakdown of leaf litter in a neotropical stream. <i>Journal of the North American Benthological Society</i> , 2002, 21, 384-396.	3.0	156
99	Response of aquatic hyphomycete communities to enhanced stream retention in areas impacted by commercial forestry. <i>Freshwater Biology</i> , 2002, 47, 313-323.	1.2	31
100	Breakdown of wood in the Agüera stream. <i>Freshwater Biology</i> , 2002, 47, 2205-2215.	1.2	71
101	A CASE FOR USING LITTER BREAKDOWN TO ASSESS FUNCTIONAL STREAM INTEGRITY. , 2002, 12, 498-510.		433
102	Effect of Culture Conditions on Ergosterol as an Indicator of Biomass in the Aquatic Hyphomycetes. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2051-2055.	1.4	66
103	A Perspective on Leaf Litter Breakdown in Streams. <i>Oikos</i> , 1999, 85, 377.	1.2	501
104	Temperature and Sporulation of Aquatic Hyphomycetes. <i>Applied and Environmental Microbiology</i> , 1998, 64, 1522-1525.	1.4	117
105	Leaf breakdown along an altitudinal stream gradient. <i>Fundamental and Applied Limnology</i> , 1998, 141, 167-179.	0.4	35
106	Growth and production of aquatic hyphomycetes in decomposing leaf litter. <i>Limnology and Oceanography</i> , 1997, 42, 496-505.	1.6	70
107	The impact of eucalypt on the leaf-associated aquatic hyphomycetes in Spanish streams. <i>Canadian Journal of Botany</i> , 1997, 75, 880-887.	1.2	47
108	Regulation of Leaf Breakdown by Fungi in Streams: Influences of Water Chemistry. <i>Ecology</i> , 1995, 76, 1433-1445.	1.5	345

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109	Bacteria, Fungi and the Breakdown of Leaf Litter in a Large River. <i>Oikos</i> , 1995, 74, 93.	1.2	217
110	Production and decomposition of aquatic macrophytes in the River Garonne. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 1994, 25, 2305-2308.	0.1	0
111	Importance of Stream Microfungi in Controlling Breakdown Rates of Leaf Litter. <i>Ecology</i> , 1994, 75, 1807-1817.	1.5	505
112	Stable successional patterns of aquatic hyphomycetes on leaves decaying in a summer cool stream. <i>Mycological Research</i> , 1993, 97, 163-172.	2.5	118
113	Comparison of ATP and Ergosterol as Indicators of Fungal Biomass Associated with Decomposing Leaves in Streams. <i>Applied and Environmental Microbiology</i> , 1993, 59, 3367-3372.	1.4	64
114	Ergosterol-to-Biomass Conversion Factors for Aquatic Hyphomycetes. <i>Applied and Environmental Microbiology</i> , 1993, 59, 502-507.	1.4	397
115	Aquatic Hyphomycete Distribution in South-Western France. <i>Journal of Biogeography</i> , 1991, 18, 699.	1.4	44
116	Dynamics of seston constituents in the Ariège and Garonne rivers (France). <i>Hydrobiologia</i> , 1990, 192, 183-190.	1.0	8
117	Lateral Interactions in a Fluvial Landscape: The River Garonne, France. <i>Journal of the North American Benthological Society</i> , 1989, 8, 9-17.	3.0	45
118	Lignin Degradation and Humus Formation in Alluvial Soils and Sediments. <i>Applied and Environmental Microbiology</i> , 1989, 55, 922-926.	1.4	24
119	Degradation of softwood [ <sup>14</sup> C lignin] lignocelluloses and its relation to the formation of humic substances in river and pond environments. <i>Hydrobiologia</i> , 1988, 159, 169-176.	1.0	8
120	Changes in the chemical composition of alder, poplar and willow leaves during decomposition in a river. <i>Hydrobiologia</i> , 1987, 148, 35-44.	1.0	107
121	Influence d'une réduction de débit sur un torrent de montagne : l'Aston (Ariège). <i>Annales De Limnologie</i> , 1983, 19, 45-49.	0.6	6