

# Tomas Brodin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7701390/publications.pdf>

Version: 2024-02-01

99  
papers

5,791  
citations

109321

35  
h-index

79698

73  
g-index

100  
all docs

100  
docs citations

100  
times ranked

5944  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dilute Concentrations of a Psychiatric Drug Alter Behavior of Fish from Natural Populations. <i>Science</i> , 2013, 339, 814-815.	12.6	656
2	Personality-dependent dispersal: characterization, ontogeny and consequences for spatially structured populations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010, 365, 4065-4076.	4.0	502
3	Behavioural syndromes in fishes: a review with implications for ecology and fisheries management. <i>Journal of Fish Biology</i> , 2011, 78, 395-435.	1.6	399
4	Personality traits and dispersal tendency in the invasive mosquitofish ( <i>Gambusia affinis</i> ). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1571-1579.	2.6	382
5	Ecological effects of pharmaceuticals in aquatic systems—impacts through behavioural alterations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130580.	4.0	352
6	<i>ToxTrac</i> : A fast and robust software for tracking organisms. <i>Methods in Ecology and Evolution</i> , 2018, 9, 460-464.	5.2	251
7	Direct and indirect effects of chemical contaminants on the behaviour, ecology and evolution of wildlife. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181297.	2.6	195
8	A diverse suite of pharmaceuticals contaminates stream and riparian food webs. <i>Nature Communications</i> , 2018, 9, 4491.	12.8	189
9	Big-data approaches lead to an increased understanding of the ecology of animal movement. <i>Science</i> , 2022, 375, eabg1780.	12.6	173
10	Personality-dependent dispersal in the invasive mosquitofish: group composition matters. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1670-1678.	2.6	147
11	CONFLICTING SELECTION PRESSURES ON THE GROWTH/PREDATION-RISK TRADE-OFF IN A DAMSELFLY. <i>Ecology</i> , 2004, 85, 2927-2932.	3.2	121
12	Bioaccumulation of five pharmaceuticals at multiple trophic levels in an aquatic food web - Insights from a field experiment. <i>Science of the Total Environment</i> , 2016, 568, 208-215.	8.0	110
13	The Role of Behavioral Ecotoxicology in Environmental Protection. <i>Environmental Science &amp; Technology</i> , 2021, 55, 5620-5628.	10.0	101
14	Toward sustainable environmental quality: Priority research questions for Europe. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 2281-2295.	4.3	98
15	Personality-dependent dispersal cancelled under predation risk. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20132349.	2.6	89
16	Behavioral syndrome over the boundaries of life—carryovers from larvae to adult damselfly. <i>Behavioral Ecology</i> , 2009, 20, 30-37.	2.2	84
17	Personality trait differences between mainland and island populations in the common frog ( <i>Rana</i> )	1.4	75
18	ToxId: an efficient algorithm to solve occlusions when tracking multiple animals. <i>Scientific Reports</i> , 2017, 7, 14774.	3.3	71

#	ARTICLE	IF	CITATIONS
19	Sexual size dimorphism and sex ratios in dragonflies (Odonata). <i>Biological Journal of the Linnean Society</i> , 2005, 86, 507-513.	1.6	66
20	Long-Term Persistence of an Anxiolytic Drug (Oxazepam) in a Large Freshwater Lake. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10406-10412.	10.0	66
21	Differential removal of human pathogenic viruses from sewage by conventional and ozone treatments. <i>International Journal of Hygiene and Environmental Health</i> , 2018, 221, 479-488.	4.3	65
22	The conceptual imperfection of aquatic risk assessment tests: highlighting the need for tests designed to detect therapeutic effects of pharmaceutical contaminants. <i>Environmental Research Letters</i> , 2014, 9, 084003.	5.2	61
23	Evolution of animal personalities. <i>Nature</i> , 2007, 450, E5-E5.	27.8	57
24	GABAergic anxiolytic drug in water increases migration behaviour in salmon. <i>Nature Communications</i> , 2016, 7, 13460.	12.8	57
25	Exposure to wastewater effluent affects fish behaviour and tissue-specific uptake of pharmaceuticals. <i>Science of the Total Environment</i> , 2017, 605-606, 578-588.	8.0	57
26	Antihistamines and aquatic insects: Bioconcentration and impacts on behavior in damselfly larvae (Zygoptera). <i>Science of the Total Environment</i> , 2014, 472, 108-111.	8.0	56
27	Phenotypic plasticity in gender specific life-history: effects of food availability and predation. <i>Oikos</i> , 2005, 110, 91-100.	2.7	53
28	Screening of benzodiazepines in thirty European rivers. <i>Chemosphere</i> , 2017, 176, 324-332.	8.2	52
29	Emerging investigator series: use of behavioural endpoints in the regulation of chemicals. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 49-65.	3.5	52
30	Predator related oviposition site selection of aquatic beetles ( <i>Hydroporus</i> spp.) and effects on offspring life-history. <i>Freshwater Biology</i> , 2006, 51, 1277-1285.	2.4	49
31	Environmental relevant levels of a benzodiazepine (oxazepam) alters important behavioral traits in a common planktivorous fish, ( <i>Rutilus rutilus</i> ). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2017, 80, 963-970.	2.3	46
32	Frontiers in quantifying wildlife behavioural responses to chemical pollution. <i>Biological Reviews</i> , 2022, 97, 1346-1364.	10.4	46
33	Behavioural and life history effects of predator diet cues during ontogeny in damselfly larvae. <i>Oecologia</i> , 2006, 148, 162-169.	2.0	42
34	Fish on steroids: Temperature-dependent effects of 17 $\beta$ -trenbolone on predator escape, boldness, and exploratory behaviors. <i>Environmental Pollution</i> , 2019, 245, 243-252.	7.5	42
35	Effects of predator-induced thinning and activity changes on life history in a damselfly. <i>Oecologia</i> , 2002, 132, 316-322.	2.0	37
36	Behavioural effects of psychoactive pharmaceutical exposure on European perch ( <i>Perca fluviatilis</i> ) in a multi-stressor environment. <i>Science of the Total Environment</i> , 2019, 655, 1311-1320.	8.0	37

#	ARTICLE	IF	CITATIONS
37	Behavioral dependent dispersal in the invasive round goby <i>Neogobius melanostomus</i> depends on population age. <i>Environmental Epigenetics</i> , 2015, 61, 529-542.	1.8	35
38	Reproduction in a polluted world: implications for wildlife. <i>Reproduction</i> , 2020, 160, R13-R23.	2.6	35
39	An approach to incorporate individual personality in modeling fish dispersal across in-stream barriers. <i>Ecology and Evolution</i> , 2017, 7, 720-732.	1.9	34
40	Effect of bioconcentration and trophic transfer on realized exposure to oxazepam in 2 predators, the dragonfly larvae ( <i>Aeshna grandis</i> ) and the Eurasian perch ( <i>Perca fluviatilis</i> ). <i>Environmental Toxicology and Chemistry</i> , 2016, 35, 930-937.	4.3	33
41	Drug-Induced Behavioral Changes: Using Laboratory Observations to Predict Field Observations. <i>Frontiers in Environmental Science</i> , 2016, 4, .	3.3	32
42	Water temperature affects the biotransformation and accumulation of a psychoactive pharmaceutical and its metabolite in aquatic organisms. <i>Environment International</i> , 2021, 155, 106705.	10.0	31
43	Non-random dispersal mediates invader impacts on the invertebrate community. <i>Journal of Animal Ecology</i> , 2017, 86, 1298-1307.	2.8	27
44	Investigating tissue bioconcentration and the behavioural effects of two pharmaceutical pollutants on sea trout ( <i>Salmo trutta</i> ) in the laboratory and field. <i>Aquatic Toxicology</i> , 2019, 207, 170-178.	4.0	26
45	Chronic Exposure to Oxazepam Pollution Produces Tolerance to Anxiolytic Effects in Zebrafish ( <i>Danio rerio</i> ). <i>Environmental Science &amp; Technology</i> , 2020, 54, 1760-1769.	10.0	26
46	Species abundance models and patterns in dragonfly communities: effects of fish predators. <i>Oikos</i> , 2006, 114, 27-36.	2.7	24
47	Upscaling behavioural studies to the field using acoustic telemetry. <i>Aquatic Toxicology</i> , 2016, 170, 384-389.	4.0	24
48	Bioconcentration and behavioral effects of four benzodiazepines and their environmentally relevant mixture in wild fish. <i>Science of the Total Environment</i> , 2020, 702, 134780.	8.0	24
49	Low concentrations of the benzodiazepine drug oxazepam induce anxiolytic effects in wild-caught but not in laboratory zebrafish. <i>Science of the Total Environment</i> , 2020, 703, 134701.	8.0	23
50	Greening the pharmacy. <i>Science</i> , 2022, 377, 259-260.	12.6	23
51	Airborne microbial biodiversity and seasonality in Northern and Southern Sweden. <i>PeerJ</i> , 2020, 8, e8424.	2.0	22
52	The old and the new: evaluating performance of acoustic telemetry systems in tracking migrating Atlantic salmon ( <i>Salmo salar</i> ) smolt and European eel ( <i>Anguilla anguilla</i> ) around hydropower facilities. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2020, 77, 177-187.	1.4	21
53	Foraging Rates of Larval Dragonfly Colonists Are Positively Related to Habitat Isolation: Results from a Landscape-Level Experiment. <i>American Naturalist</i> , 2010, 175, E66-E73.	2.1	20
54	Condition-dependent behaviour among damselfly populations. <i>Canadian Journal of Zoology</i> , 2004, 82, 653-659.	1.0	19

#	ARTICLE	IF	CITATIONS
55	Individual variation in dispersal associated behavioral traits of the invasive Chinese mitten crab ( <i>Eriocheir sinensis</i> , H. Milne Edwards, 1854) during initial invasion of Lake Vänern, Sweden. <i>Environmental Epigenetics</i> , 2014, 60, 410-416.	1.8	19
56	Effects of an antihistamine on carbon and nutrient recycling in streams. <i>Science of the Total Environment</i> , 2015, 538, 240-245.	8.0	18
57	Behavioural alterations induced by the anxiolytic pollutant oxazepam are reversible after depuration in a freshwater fish. <i>Science of the Total Environment</i> , 2019, 665, 390-399.	8.0	18
58	Personality- and size-related metabolic performance in invasive round goby ( <i>Neogobius</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,622 Td (m	2.1	17
59	Intermediate predator impact on consumers weakens with increasing predator diversity in the presence of a top-predator. <i>Acta Oecologica</i> , 2007, 31, 79-85.	1.1	16
60	Early Engagement of Stakeholders with Individual-Based Modeling Can Inform Research for Improving Invasive Species Management: The Round Goby as a Case Study. <i>Frontiers in Ecology and Evolution</i> , 2017, 5, .	2.2	16
61	Less anxious salmon smolt become easy prey during downstream migration. <i>Science of the Total Environment</i> , 2019, 687, 488-493.	8.0	16
62	Sex-dependent personality in two invasive species of mosquitofish. <i>Biological Invasions</i> , 2020, 22, 1353-1364.	2.4	16
63	Personality-dependent survival of the invasive mosquitofish: being social can be deadly. <i>Aquatic Invasions</i> , 2019, 14, 465-477.	1.6	15
64	Effects of ozonated sewage effluent on reproduction and behavioral endpoints in zebrafish ( <i>Danio</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,622 Td (m	4.0	14
65	Slow-Release Implants for Manipulating Contaminant Exposures in Aquatic Wildlife: A New Tool for Field Ecotoxicology. <i>Environmental Science &amp; Technology</i> , 2019, 53, 8282-8290.	10.0	14
66	Spatial scale influences the outcome of the predatorâ€“prey space race between tadpoles and predatory dragonflies. <i>Functional Ecology</i> , 2012, 26, 522-531.	3.6	13
67	Tissue-specific uptake of the benzodiazepine oxazepam in adult Eurasian perch ( <i>Perca fluviatilis</i> ). <i>Environmental Chemistry</i> , 2016, 13, 849.	1.5	13
68	A role for lakes in revealing the nature of animal movement using high dimensional telemetry systems. <i>Movement Ecology</i> , 2021, 9, 40.	2.8	13
69	Investigating largeâ€“scale invasion patterns usingâ€“small scale invasion successionsâ€“ phenotypic differentiation of the invasive round goby ( <i>Neogobius melanostomus</i> ) at invasion fronts. <i>Limnology and Oceanography</i> , 2018, 63, 702-713.	3.1	11
70	No evidence of increased growth or mortality in fish exposed to oxazepam in semi-natural ecosystems. <i>Science of the Total Environment</i> , 2018, 615, 608-614.	8.0	10
71	High-speed imaging reveals how antihistamine exposure affects escape behaviours in aquatic insect prey. <i>Science of the Total Environment</i> , 2019, 648, 1257-1262.	8.0	10
72	Broaden chemicals scope in biodiversity targets. <i>Science</i> , 2022, 376, 1280-1280.	12.6	10

#	ARTICLE	IF	CITATIONS
73	Home aloneâ€”The effects of isolation on uptake of a pharmaceutical contaminant in a social fish. <i>Aquatic Toxicology</i> , 2016, 180, 71-77.	4.0	8
74	Two experimental designs generate contrasting patterns of behavioral differentiation along a latitudinal gradient in <i>Lestes sponsa</i> â€”Commonâ€”garden not so common after all?. <i>Ecology and Evolution</i> , 2020, 10, 10242-10253.	1.9	7
75	Larval behavioral syndrome does not affect emergence behavior in a damselfly ( <i>Lestes congener</i> ). <i>Journal of Ethology</i> , 2011, 29, 107-113.	0.8	6
76	Stability and uptake of methylphenidate and ritalinic acid in nine-spine stickleback ( <i>Pungitius</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 26, 9371-9378.	5.3	6
77	Oxylipins at intermediate larval stages of damselfly <i>Coenagrion hastulatum</i> as biochemical biomarkers for anthropogenic pollution. <i>Environmental Science and Pollution Research</i> , 2021, 28, 27629-27638.	5.3	6
78	Exposure via biotransformation: Oxazepam reaches predicted pharmacological effect levels in European perch after exposure to temazepam. <i>Ecotoxicology and Environmental Safety</i> , 2021, 217, 112246.	6.0	6
79	Evidence of the impacts of pharmaceuticals on aquatic animal behaviour: a systematic map protocol. <i>Environmental Evidence</i> , 2021, 10, .	2.7	6
80	Environmentally relevant concentration of caffeineâ€”effect on activity and circadian rhythm in wild perch. <i>Environmental Science and Pollution Research</i> , 2022, 29, 54264-54272.	5.3	6
81	Adult insect personality in the wildâ€”<i>Calopteryx splendens</i> as a model for field studies. <i>Ecology and Evolution</i> , 2021, 11, 18467-18476.	1.9	6
82	Using laboratory incubations to predict the fate of pharmaceuticals in aquatic ecosystems. <i>Environmental Chemistry</i> , 2018, 15, 463.	1.5	5
83	Personalityâ€”dependent interâ€”and intraspecific foraging competition in the invasive round goby, <i>Neogobius melanostomus</i>. <i>Journal of Fish Biology</i> , 2021, 98, 1234-1241.	1.6	5
84	Refining particle positions using circular symmetry. <i>PLoS ONE</i> , 2017, 12, e0175015.	2.5	5
85	Micropollutants. <i>Current Biology</i> , 2022, 32, R17-R19.	3.9	5
86	Wastewater effluent affects behaviour and metabolomic endpoints in damselfly larvae. <i>Scientific Reports</i> , 2022, 12, 6830.	3.3	5
87	Novel metabolomic method to assess the effect-based removal efficiency of advanced wastewater treatment techniques. <i>Environmental Chemistry</i> , 2020, 17, 1.	1.5	4
88	Social status modulates the behavioral and physiological consequences of a chemical pollutant in animal groups. <i>Ecological Applications</i> , 2021, 31, e02454.	3.8	4
89	Distribution patterns of the Chinese mitten crab ( <i>Eriocheir sinensis</i> H. Milne Edwards, 1853) in Lake VÄnern, Sweden. <i>Aquatic Invasions</i> , 2012, 7, 243-249.	1.6	4
90	The future of psychiatry should be One Health. <i>Reviews on Environmental Health</i> , 2023, 38, 399-400.	2.4	4

#	ARTICLE	IF	CITATIONS
91	Effects of boulder addition on European grayling ( <i>Thymallus thymallus</i> ) in a channelized river in Sweden. <i>Journal of Freshwater Ecology</i> , 2019, 34, 559-573.	1.2	3
92	Environmentally relevant concentrations of the common anxiolytic pharmaceutical oxazepam do not have acute effect on spawning behavior in mature male Atlantic salmon ( <i>Salmo salar</i> ) parr. <i>Journal of Applied Ichthyology</i> , 2020, 36, 105-112.	0.7	3
93	Antipredator phenotype in crucian carp altered by a psychoactive drug. <i>Ecology and Evolution</i> , 2021, 11, 9435-9446.	1.9	3
94	Metabolomics reveals changes in metabolite profiles due to growth and metamorphosis during the ontogeny of the northern damselfly. <i>Journal of Insect Physiology</i> , 2022, 136, 104341.	2.0	3
95	Does range expansion modify trait covariation? A study of a northward expanding dragonfly. <i>Oecologia</i> , 2020, 192, 565-575.	2.0	2
96	Changing Names with Changed Address: Integrated Taxonomy and Species Delimitation in the Holarctic <i>Colymbetes paykulli</i> Group (Coleoptera: Dytiscidae). <i>PLoS ONE</i> , 2015, 10, e0143577.	2.5	2
97	Uptake, depuration, and behavioural effects of oxazepam on activity and foraging in a tropical snail ( <i>Melanoides tuberculata</i> ). <i>Environmental Advances</i> , 2022, 8, 100187.	4.8	2
98	Cross-Latitude Behavioural Axis in an Adult Damselfly <i>Calopteryx splendens</i> (Harris, 1780). <i>Insects</i> , 2022, 13, 342.	2.2	1
99	Shift in migration phenology of a wintering population of Dippers <i>Cinclus cinclus</i> in northern Sweden. <i>Ornis Svecica</i> , 2017, 27, .	0.1	0