

Josef Ackerman

List of Publications by Citations

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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.

86
papers

2,135
citations

27
h-index

44
g-index

95
ext. papers

2,403
ext. citations

3.3
avg, IF

5.23
L-index

#	Paper	IF	Citations
86	Achieving campus sustainability: top-down, bottom-up, or neither?. <i>International Journal of Sustainability in Higher Education</i> , 2011 , 12, 338-354	3.9	153
85	Reduced Mixing in a Marine Macrophyte Canopy. <i>Functional Ecology</i> , 1993 , 7, 305	5.6	150
84	Abiotic pollen and pollination: Ecological, functional, and evolutionary perspectives. <i>Plant Systematics and Evolution</i> , 2000 , 222, 167-185	1.3	132
83	A review of the early life history of zebra mussels (<i>Dreissena polymorpha</i>): comparisons with marine bivalves. <i>Canadian Journal of Zoology</i> , 1994 , 72, 1169-1179	1.5	107
82	Observations of particle capture on a cylindrical collector: Implications for particle accumulation and removal in aquatic systems. <i>Limnology and Oceanography</i> , 2004 , 49, 76-85	4.8	106
81	Benthic-Pelagic coupling over a zebra mussel reef in western Lake Erie. <i>Limnology and Oceanography</i> , 2001 , 46, 892-904	4.8	101
80	Secondary invasion of the round goby into high diversity Great Lakes tributaries and species at risk hotspots: potential new concerns for endangered freshwater species. <i>Biological Invasions</i> , 2010 , 12, 1269-1284 ^{2.7} ₁₂₈₄ ⁷⁹	2.7	79
79	Effect of velocity on the filter feeding of dreissenid mussels (<i>Dreissena polymorpha</i> and <i>Dreissena bugensis</i>): implications for trophic dynamics. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999 , 56, 1551-1561	2.4	78
78	Factors affecting the development and dynamics of hypoxia in a large shallow stratified lake: Hourly to seasonal patterns. <i>Water Resources Research</i> , 2013 , 49, 2380-2394	5.4	56
77	Dispersal limitation of unionid mussels and implications for their conservation. <i>Freshwater Biology</i> , 2011 , 56, 1509-1518	3.1	54
76	Diffusivity in a marine macrophyte canopy: implications for submarine pollination and dispersal. <i>American Journal of Botany</i> , 2002 , 89, 1119-27	2.7	49
75	Sensitivity of the glochidia (larvae) of freshwater mussels to copper: assessing the effect of water hardness and dissolved organic carbon on the sensitivity of endangered species. <i>Aquatic Toxicology</i> , 2008 , 88, 137-45	5.1	42
74	Mechanistic implications for pollination in the marine angiosperm <i>Zostera marina</i> . <i>Aquatic Botany</i> , 1986 , 24, 343-353	1.8	40
73	Convergence of filiform pollen morphologies in seagrasses: Functional mechanisms. <i>Evolutionary Ecology</i> , 1995 , 9, 139-153	1.8	39
72	The effect of velocity on the suspension feeding and growth of the marine mussels <i>Mytilus trossulus</i> and <i>M. californianus</i> : implications for niche separation. <i>Journal of Marine Systems</i> , 2004 , 49, 195-207	2.7	36
71	Submarine pollination in the marine angiosperm <i>Zostera marina</i> (Zosteraceae). II. Pollen transport in flow fields and capture by stigmas. <i>American Journal of Botany</i> , 1997 , 84, 1110-1119	2.7	35
70	Physiological and Taxonomic Separation of Two Dreissenid Mussels in the Laurentian Great Lakes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1993 , 50, 2294-2297	2.4	33

69	Integrative neural networks models for stream assessment in restoration projects. <i>Journal of Hydrology</i> , 2016 , 536, 339-350	6	32
68	Environmental implications of stratification and turbulent mixing in a shallow lake basin. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007 , 64, 43-57	2.4	32
67	Measurement of local bed shear stress in streams using a Preston-static tube. <i>Limnology and Oceanography</i> , 2001 , 46, 2080-2087	4.8	31
66	Movement of logperch the obligate host fish for endangered snuffbox mussels: implications for mussel dispersal. <i>Aquatic Sciences</i> , 2011 , 73, 223-231	2.5	29
65	Attachment Strength of Zebra Mussels on Natural, Polymeric, and Metallic Materials. <i>Journal of Environmental Engineering, ASCE</i> , 1996 , 122, 141-148	2	29
64	Host fish quality may explain the status of endangered <i>Epioblasma torulosa rangiana</i> and <i>Lampsilis fasciola</i> (Bivalvia:Unionidae) in Canada. <i>Journal of the North American Benthological Society</i> , 2011 , 30, 60-70		28
63	Juvenile-adult associations in sea urchins (<i>Strongylocentrotus franciscanus</i> and <i>S. droebachiensis</i>): protection from predation and hydrodynamics in <i>S. franciscanus</i> . <i>Marine Biology</i> , 2007 , 151, 135-145	2.5	28
62	A wall jet to measure the attachment strength of zebra mussels. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1995 , 52, 126-135	2.4	28
61	Hydrodynamic habitat influences suspension feeding by unionid mussels in freshwater ecosystems. <i>Freshwater Biology</i> , 2014 , 59, 1187-1196	3.1	27
60	Turbulence-induced resonance vibrations cause pollen release in wind-pollinated <i>Plantago lanceolata</i> L. (Plantaginaceae). <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140866	4.1	27
59	Submarine pollination in the marine angiosperm <i>Zostera marina</i> (Zosteraceae). I. The influence of floral morphology on fluid flow. <i>American Journal of Botany</i> , 1997 , 84, 1099-1109	2.7	27
58	A secondary chemical cue facilitates juvenile-adult postsettlement associations in red sea urchins. <i>Limnology and Oceanography</i> , 2005 , 50, 354-362	4.8	27
57	Genetic and environmental implications of reintroducing laboratory-raised unionid mussels to the wild. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008 , 65, 1217-1229	2.4	26
56	The effect of hydrodynamics on the mass transfer of dissolved inorganic carbon to the freshwater macrophyte <i>Vallisneria americana</i> . <i>Limnology and Oceanography</i> , 2006 , 51, 2734-2745	4.8	25
55	Suspended solid concentration reduces feeding in freshwater mussels. <i>Science of the Total Environment</i> , 2017 , 598, 1160-1168	10.2	23
54	Near-bed hydrodynamic measurements above boulders in shallow torrential streams: Implications for stream biota. <i>Journal of Environmental Engineering and Science</i> , 2004 , 3, 365-378	0.8	22
53	Responses of newly settled juvenile mussels to bed shear stress: implications for dispersal. <i>Freshwater Science</i> , 2014 , 33, 46-55	2	21
52	The effect of natural dissolved organic carbon on the acute toxicity of copper to larval freshwater mussels (glochidia). <i>Environmental Toxicology and Chemistry</i> , 2010 , 29, 2519-28	3.8	19

51	Coastal Upwelling Influences Hypoxia Spatial Patterns and Nearshore Dynamics in Lake Erie. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 6154-6175	3.3	18
50	Diffusive boundary layers do not limit the photosynthesis of the aquatic macrophyte, <i>Vallisneria spiralis</i> , at moderate flows and saturating light levels. <i>Limnology and Oceanography</i> , 2009 , 54, 1874-1882	4.8	18
49	On the determination of mass transfer in a concentration boundary layer. <i>Limnology and Oceanography: Methods</i> , 2007 , 5, 88-96	2.6	18
48	Dispersion of freshwater mussel larvae in a lowland river 2010 , 55, 628		16
47	Lake Brienz Project: An interdisciplinary catchment-to-lake study. <i>Aquatic Sciences</i> , 2007 , 69, 173-178	2.5	15
46	Investigation of Zebra Mussel Adhesion Strength Using Rotating Disks. <i>Journal of Environmental Engineering, ASCE</i> , 1992 , 118, 708-724	2	15
45	Flow, Flux, and Feeding in Freshwater Mussels. <i>Water Resources Research</i> , 2018 , 54, 7619-7630	5.4	14
44	Episodic hypoxia in the western basin of Lake Erie. <i>Limnology and Oceanography</i> , 2019 , 64, 2220-2236	4.8	13
43	Loss of reproductive output caused by an invasive species. <i>Royal Society Open Science</i> , 2016 , 3, 150481	3.3	13
42	Adding ecology to particle capture models: numerical simulations of capture on a moving cylinder in crossflow. <i>Journal of Theoretical Biology</i> , 2015 , 368, 13-26	2.3	13
41	Pollen Aggregation in Relation to Pollination Vector. <i>International Journal of Plant Sciences</i> , 2014 , 175, 681-687	2.6	13
40	Biological and ecological mechanisms for overcoming sperm limitation in invasive dreissenid mussels. <i>Aquatic Sciences</i> , 2012 , 74, 415-425	2.5	13
39	Abiotic pollen and pollination: ecological, functional, and evolutionary perspectives 2000 , 167-185		13
38	Living the high turbidity life: The effects of total suspended solids, flow, and gill morphology on mussel feeding. <i>Limnology and Oceanography</i> , 2019 , 64, 2526-2537	4.8	12
37	Near-inertial wave driven dissolved oxygen transfer through the thermocline of a large lake. <i>Journal of Great Lakes Research</i> , 2014 , 40, 300-307	3	12
36	Pollen germination and pollen tube growth in the marine angiosperm, <i>Zostera marina</i> L.. <i>Aquatic Botany</i> , 1993 , 46, 189-202	1.8	12
35	Does size matter? Particle size vs. quality in bivalve suspension feeding. <i>Freshwater Biology</i> , 2018 , 63, 1560-1568	3.1	12
34	The effect of riparian condition on invertebrate drift in mountain streams. <i>Aquatic Sciences</i> , 2007 , 69, 544-553	2.5	11

33	Algal flux affects the clearance rates of recently metamorphosed freshwater mussels. <i>Aquatic Sciences</i> , 2017 , 79, 139-148	2.5	10
32	Collector Motion Affects Particle Capture in Physical Models and in Wind Pollination. <i>American Naturalist</i> , 2018 , 192, 81-93	3.7	10
31	Mussels blow rings: Jet behavior affects local mixing. <i>Limnology and Oceanography</i> , 2017 , 62, 125-136	4.8	10
30	The effect of near-bed turbulence on sperm dilution and fertilization success of broadcast-spawning bivalves. <i>Limnology & Oceanography Fluids & Environments</i> , 2011 , 1, 176-193		9
29	Effects of near-bed turbulence on the suspension and settlement of freshwater dreissenid mussel larvae. <i>Freshwater Biology</i> , 2014 , 59, 614-629	3.1	8
28	Settling velocities of juvenile Lampsilini mussels (Mollusca:Unionidae): the influence of behavior. <i>Journal of the North American Benthological Society</i> , 2011 , 30, 702-709		8
27	Microdistribution of a torrential stream invertebrate: Are bottom-up, top-down, or hydrodynamic controls most important?. <i>Limnology & Oceanography Fluids & Environments</i> , 2011 , 1, 147-162		6
26	Preston-Static Tubes for the Measurement of Wall Shear Stress. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1994 , 116, 645-649	2.1	6
25	Fluid Dynamics in Seagrass Ecology From Molecules to Ecosystems 2007 , 193-225		6
24	The interaction of CO ₂ concentration and spatial location on O ₂ flux and mass transport in the freshwater macrophytes <i>Vallisneria spiralis</i> and <i>V. americana</i> . <i>Journal of Experimental Biology</i> , 2007 , 210, 522-32	3	5
23	Riverine transport and nutrient inputs affect phytoplankton communities in a coastal embayment. <i>Freshwater Biology</i> , 2020 , 65, 289-303	3.1	4
22	Increases in Great Lake winds and extreme events facilitate interbasin coupling and reduce water quality in Lake Erie. <i>Scientific Reports</i> , 2021 , 11, 5733	4.9	4
21	Sexual Reproduction of Seagrasses: Pollination in the Marine Context 89-109		4
20	Empirical modeling of hypolimnion and sediment oxygen demand in temperate Canadian lakes. <i>Inland Waters</i> , 1-17	2.4	3
19	Approaches and research needs for advancing the protection and recovery of imperilled freshwater fishes and mussels in Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021 , 78, 1356-1370	2.4	3
18	Mussels partition resources from natural waters under flowing conditions. <i>Science of the Total Environment</i> , 2019 , 696, 133870	10.2	2
17	The effect of settling velocity on the transport of mussel larvae in a cobble-bed river: Water column and near-bed turbulence. <i>Limnology & Oceanography Fluids & Environments</i> , 2012 , 2, 28-40		2
16	Dispersion of freshwater mussel larvae in a lowland river. <i>Limnology and Oceanography</i> , 2010 , 55, 628-638		2

15	Sexual Reproduction of Seagrasses: Pollination in the Marine Context 2007 , 89-109		2
14	THE ENVIRONMENTAL HYDRAULICS OF TURBULENT BOUNDARY LAYERS 2010 , 87-125		2
13	Passive Diffusion in Ecosystems. <i>Interdisciplinary Applied Mathematics</i> , 2001 , 31-106	0.7	2
12	Use of Statistical Tests to Describe the Basic Distribution Pattern of Iron Oxide Nodules in Soil Thin Sections. <i>Soil Science Society of America Journal</i> , 1998 , 62, 1346-1350	2.5	1
11	How stiff is a French fry? Teaching biomechanics to biology students. <i>Journal of Biological Education</i> , 1999 , 34, 36-40	0.9	1
10	Preliminary Observations on the Hydrodynamics of Filter Feeding in Zebra Mussels 1993 , 513-514		1
9	The Effects of River Algae and Pore Water Flow on the Feeding of Juvenile Mussels. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005302	3.7	1
8	The effect of bottom roughness on scalar transport in aquatic ecosystems: implications for reproduction and recruitment in the benthos. <i>Journal of Theoretical Biology</i> , 2015 , 369, 59-66	2.3	0
7	Threats to freshwater mussels: The interactions of water temperature, velocity and total suspended solids on ecophysiology and growth.. <i>Science of the Total Environment</i> , 2022 , 153101	10.2	0
6	Evidence of phenotypic plasticity in the response of unionid mussels to turbidity. <i>Freshwater Biology</i> , 2020 , 65, 1989-1996	3.1	0
5	A spanwise oscillating plate in a crossflow: Implication for mass transfer and locomotion. <i>Limnology and Oceanography</i> , 2021 , 66, 3393-3407	4.8	0
4	Physical processes and water quality in natural waters. <i>Water Quality Research Journal of Canada</i> , 2012 , 47, 197-197	1.7	
3	THE EFFICACY OF RIPARIAN RESERVES IN THE MITIGATION OF FORESTRY PRACTICES IN STREAM ECOSYSTEMS.. <i>Proceedings of the Water Environment Federation</i> , 2000 , 2000, 2480-2495		
2	Canopy-Forming Ecosystem Engineers in Aquatic Ecosystems 2019 , 1-13		
1	Settlement and Recruitment of Pelagic Larvae to Benthic Habitats 2019 , 1-15		