

Nicholas S Johnson

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,631
citations

331670

21
h-index

395702

33
g-index

84
all docs

84
docs citations

84
times ranked

890
citing authors

#	ARTICLE	IF	CITATIONS
1	Pedigree analysis and estimates of effective breeding size characterize sea lamprey reproductive biology. <i>Evolutionary Applications</i> , 2022, 15, 484-500.	3.1	3
2	Registration and application of sea lamprey pheromones for sea lamprey control in the United States and Canada. <i>Journal of Great Lakes Research</i> , 2021, 47, S448-S454.	1.9	8
3	Where you trap matters: Implications for integrated sea lamprey management. <i>Journal of Great Lakes Research</i> , 2021, 47, S320-S327.	1.9	18
4	Estimating age and growth of invasive sea lamprey: A review of approaches and investigation of a new method. <i>Journal of Great Lakes Research</i> , 2021, 47, S570-S579.	1.9	13
5	Winter severity, fish community, and availability to traps explain most of the variability in estimates of adult sea lamprey in Lake Superior. <i>Journal of Great Lakes Research</i> , 2021, 47, S347-S356.	1.9	7
6	A case study of sea lamprey (<i>Petromyzon marinus</i>) control and ecology in a microcosm of the Great Lakes. <i>Journal of Great Lakes Research</i> , 2021, 47, S492-S505.	1.9	14
7	Pheromone pollution from invasive sea lamprey misguides a native confamilial. <i>Environmental Epigenetics</i> , 2021, 67, 333-335.	1.8	5
8	Exploiting common senses: sensory ecology meets wildlife conservation and management. , 2021, 9, coab002.		18
9	Progress towards integrating an understanding of chemical ecology into sea lamprey control. <i>Journal of Great Lakes Research</i> , 2021, 47, S660-S672.	1.9	24
10	Before the first meal: The elusive pre-feeding juvenile stage of the sea lamprey. <i>Journal of Great Lakes Research</i> , 2021, , .	1.9	11
11	Behavioural response of sea lamprey (<i>Petromyzon marinus</i>) to acoustic stimuli in a small stream. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 341-348.	1.4	4
12	What can commercial fishery data in the Great Lakes reveal about juvenile sea lamprey (<i>Petromyzon</i>) Tj ETQq0 0 0 rBT /Overlock 10 Tf	1.9	10
13	Environmental factors influencing annual sucker (<i>Catostomus</i> sp.) migration into a Great Lakes tributary. <i>Journal of Great Lakes Research</i> , 2021, 47, 1159-1159.	1.9	5
14	A renewed philosophy about supplemental sea lamprey controls. <i>Journal of Great Lakes Research</i> , 2021, 47, S742-S752.	1.9	29
15	Assessment of sea lamprey (<i>Petromyzon marinus</i>) diet using DNA metabarcoding of feces. <i>Ecological Indicators</i> , 2021, 125, 107605.	6.3	9
16	Gut Microbiota Associated With Different Sea Lamprey (<i>Petromyzon marinus</i>) Life Stages. <i>Frontiers in Microbiology</i> , 2021, 12, 706683.	3.5	3
17	Diel Patterns of Pheromone Release by Male Sea Lamprey. <i>Integrative and Comparative Biology</i> , 2021, , .	2.0	1
18	An adaptive management implementation framework for evaluating supplemental sea lamprey (<i>Petromyzon marinus</i>) controls in the Laurentian Great Lakes. <i>Journal of Great Lakes Research</i> , 2021, 47, S753-S763.	1.9	10

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19	A seasonal electric barrier blocks invasive adult sea lamprey (<i>Petromyzon marinus</i>) and reduces production of larvae. <i>Journal of Great Lakes Research</i> , 2021, 47, S310-S319.	1.9	10
20	A review of sea lamprey dispersal and population structure in the Great Lakes and the implications for control. <i>Journal of Great Lakes Research</i> , 2021, 47, S549-S569.	1.9	7
21	Exploiting the physiology of lampreys to refine methods of control and conservation. <i>Journal of Great Lakes Research</i> , 2021, 47, S723-S741.	1.9	7
22	Foreword: Control and Conservation of Lampreys Beyond 2020 - Proceedings from the 3rd Sea Lamprey International Symposium (SLIS III). <i>Journal of Great Lakes Research</i> , 2021, 47, S1-S10.	1.9	5
23	Evaluation of Visible Light as a Cue for Guiding Downstream Migrant Juvenile Sea Lamprey. <i>Transactions of the American Fisheries Society</i> , 2020, 149, 635-647.	1.4	4
24	Behavioural responses of female lake trout <i>Salvelinus namaycush</i> to male chemical stimuli and prostaglandin $2I_2$. <i>Journal of Fish Biology</i> , 2020, 97, 1224-1227.	1.6	3
25	Behavioral Responses of Sea Lamprey to Varying Application Rates of a Synthesized Pheromone in Diverse Trapping Scenarios. <i>Journal of Chemical Ecology</i> , 2020, 46, 233-249.	1.8	11
26	American eels produce and release bile acid profiles that vary across life stage. <i>Journal of Fish Biology</i> , 2020, 96, 1024-1033.	1.6	3
27	A pheromone antagonist liberates female sea lamprey from a sensory trap to enable reliable communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7284-7289.	7.1	13
28	Intra- and Interspecific Variation in Production of Bile Acids That Act as Sex Pheromones in Lampreys. <i>Physiological and Biochemical Zoology</i> , 2019, 92, 463-472.	1.5	10
29	Is there convergence of gut microbes in blood-feeding vertebrates?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180249.	4.0	21
30	Push and pull of downstream moving juvenile sea lamprey (<i>Petromyzon marinus</i>) exposed to chemosensory and light cues. , 2019, 7, coz080.		12
31	Hearing capabilities and behavioural response of sea lamprey (<i>Petromyzon marinus</i>) to low-frequency sounds. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2019, 76, 1541-1548.	1.4	13
32	Characterization of Sea Lamprey Stream Entry Using Dual-Frequency Identification Sonar. <i>Transactions of the American Fisheries Society</i> , 2018, 147, 514-524.	1.4	15
33	Rapid evolution meets invasive species control: the potential for pesticide resistance in sea lamprey. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2018, 75, 152-168.	1.4	47
34	Corresponding long-term shifts in stream temperature and invasive fish migration. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2018, 75, 772-778.	1.4	15
35	A simple, cost-effective emitter for controlled release of fish pheromones: Development, testing, and application to management of the invasive sea lamprey. <i>PLoS ONE</i> , 2018, 13, e0197569.	2.5	5
36	Cyanobacteria reduce quagga mussel (<i>Dreissena rostriformis bugensis</i>) spawning and fertilization success. <i>Freshwater Science</i> , 2018, 37, 510-518.	1.8	10

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37	Contribution of manipulable and non-manipulable environmental factors to trapping efficiency of invasive sea lamprey. <i>Journal of Great Lakes Research</i> , 2017, 43, 172-181.	1.9	9
38	Movement patterns and spatial segregation of two populations of lake trout <i>Salvelinus namaycush</i> in Lake Huron. <i>Journal of Great Lakes Research</i> , 2017, 43, 108-118.	1.9	27
39	Electrical Guidance Efficiency of Downstream-Migrating Juvenile Sea Lampreys Decreases with Increasing Water Velocity. <i>Transactions of the American Fisheries Society</i> , 2017, 146, 299-307.	1.4	9
40	Field study suggests that sex determination in sea lamprey is directly influenced by larval growth rate. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170262.	2.6	23
41	Increased pheromone signaling by small male sea lamprey has distinct effects on female mate search and courtship. <i>Behavioral Ecology and Sociobiology</i> , 2017, 71, 1.	1.4	15
42	Phylogenetic distribution of a male pheromone that may exploit a nonsexual preference in lampreys. <i>Journal of Evolutionary Biology</i> , 2017, 30, 2244-2254.	1.7	11
43	Test of a Nonphysical Barrier Consisting of Light, Sound, and Bubble Screen to Block Upstream Movement of Sea Lampreys in an Experimental Raceway. <i>North American Journal of Fisheries Management</i> , 2017, 37, 660-666.	1.0	14
44	An evaluation of silver-stage American Eel conspecific chemical cueing during outmigration. <i>Environmental Biology of Fishes</i> , 2017, 100, 851-864.	1.0	2
45	Temporal constraints on the potential role of fry odors as cues of past reproductive success for spawning lake trout. <i>Ecology and Evolution</i> , 2017, 7, 10196-10206.	1.9	9
46	A portable trap with electric lead catches up to 75% of an invasive fish species. <i>Scientific Reports</i> , 2016, 6, 28430.	3.3	27
47	Five-year evaluation of habitat remediation in Thunder Bay, Lake Huron: Comparison of constructed reef characteristics that attract spawning lake trout. <i>Fisheries Research</i> , 2016, 183, 275-286.	1.7	32
48	Survival and metamorphosis of larval sea lamprey (<i>Petromyzon marinus</i>) residing in Lakes Michigan and Huron near river mouths. <i>Journal of Great Lakes Research</i> , 2016, 42, 1461-1469.	1.9	16
49	Evidence for partial overlap of male olfactory cues in lampreys. <i>Journal of Experimental Biology</i> , 2016, 220, 497-506.	1.7	16
50	A semelparous fish continues upstream migration when exposed to alarm cue, but adjusts movement speed and timing. <i>Animal Behaviour</i> , 2016, 121, 41-51.	1.9	27
51	Theory and Application of Semiochemicals in Nuisance Fish Control. <i>Journal of Chemical Ecology</i> , 2016, 42, 698-715.	1.8	31
52	Sea lamprey avoid areas scented with conspecific tissue extract in Michigan streams. <i>Fisheries Management and Ecology</i> , 2016, 23, 548-560.	2.0	12
53	Effects of Coded-Wire-Tagging on Stream-Dwelling Sea Lamprey Larvae. <i>North American Journal of Fisheries Management</i> , 2016, 36, 1059-1067.	1.0	6
54	Female sea lamprey shift orientation toward a conspecific chemical cue to escape a sensory trap. <i>Behavioral Ecology</i> , 2016, 27, 810-819.	2.2	18

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55	Classâ€Eelâ€Stage American Eels Respond to Conspecific Odor as a Function of Concentration. Transactions of the American Fisheries Society, 2016, 145, 712-722.	1.4	14
56	MANAGEMENT STRATEGY EVALUATION OF PHEROMONEâ€BAITED TRAPPING TECHNIQUES TO IMPROVE MANAGEMENT OF INVASIVE SEA LAMPREY. Natural Resource Modelling, 2016, 29, 448-469.	2.0	18
57	Evidence that sea lampreys (<i>Petromyzon marinus</i>) complete their life cycle within a tributary of the Laurentian Great Lakes by parasitizing fishes in inland lakes. Journal of Great Lakes Research, 2016, 42, 90-98.	1.9	11
58	A pheromone outweighs temperature in influencing migration of sea lamprey. Royal Society Open Science, 2015, 2, 150009.	2.4	19
59	Factors Influencing Capture of Invasive Sea Lamprey in Traps Baited With a Synthesized Sex Pheromone Component. Journal of Chemical Ecology, 2015, 41, 913-923.	1.8	30
60	Application of a putative alarm cue hastens the arrival of invasive sea lamprey (<i>Petromyzon</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 1799-1806.	1.4	50
61	A Sea Lamprey (<i>Petromyzon marinus</i>) Sex Pheromone Mixture Increases Trap Catch Relative to a Single Synthesized Component in Specific Environments. Journal of Chemical Ecology, 2015, 41, 311-321.	1.8	22
62	Quantification of 15 bile acids in lake charr feces by ultra-high performance liquid chromatographyâ€tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 1001, 27-34.	2.3	16
63	Behavioral evidence for a role of chemoreception during reproduction in lake trout. Canadian Journal of Fisheries and Aquatic Sciences, 2015, 72, 1847-1852.	1.4	8
64	Reproductive Ecology of Lampreys. , 2015, , 265-303.		64
65	Investigations of Novel Unsaturated Bile Salts of Male Sea Lamprey as Potential Chemical Cues. Journal of Chemical Ecology, 2014, 40, 1152-1160.	1.8	15
66	Bile Salts as Semiochemicals in Fish. Chemical Senses, 2014, 39, 647-654.	2.0	63
67	Estimating reach-specific fish movement probabilities in rivers with a Bayesian state-space model: application to sea lamprey passage and capture at dams. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 1713-1729.	1.4	18
68	Mercury accumulation in sea lamprey (<i>Petromyzon marinus</i>) from Lake Huron. Science of the Total Environment, 2014, 470-471, 1313-1319.	8.0	16
69	Blocking and guiding adult sea lamprey with pulsed direct current from vertical electrodes. Fisheries Research, 2014, 150, 38-48.	1.7	30
70	Growth and Survival of Sea Lampreys from Metamorphosis to Spawning in Lake Huron. Transactions of the American Fisheries Society, 2014, 143, 380-386.	1.4	29
71	Survival and metamorphosis of low-density populations of larval sea lampreys (<i>Petromyzon marinus</i>) in streams following lampricide treatment. Journal of Great Lakes Research, 2014, 40, 155-163.	1.9	29
72	A synthesized mating pheromone component increases adult sea lamprey (<i>Petromyzon marinus</i>) trap capture in management scenarios. Canadian Journal of Fisheries and Aquatic Sciences, 2013, 70, 1101-1108.	1.4	60

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73	An anti-steroidogenic inhibitory primer pheromone in male sea lamprey (<i>Petromyzon marinus</i>). <i>General and Comparative Endocrinology</i> , 2013, 189, 24-31.	1.8	16
74	Effects of Sex Pheromones and Sexual Maturation on Locomotor Activity in Female Sea Lamprey (<i>Petromyzon marinus</i>). <i>Journal of Biological Rhythms</i> , 2013, 28, 218-226.	2.6	11
75	A thermogenic secondary sexual character in male sea lamprey. <i>Journal of Experimental Biology</i> , 2013, 216, 2702-2712.	1.7	12
76	Monitoring sea lamprey pheromones and their degradation using rapid stream-side extraction coupled with UPLC-MS/MS. <i>Journal of Separation Science</i> , 2013, 36, 1612-1620.	2.5	17
77	Odor-conditioned rheotaxis of the sea lamprey: modeling, analysis and validation. <i>Bioinspiration and Biomimetics</i> , 2013, 8, 046011.	2.9	3
78	Sea lamprey orient toward a source of a synthesized pheromone using odor-conditioned rheotaxis. <i>Behavioral Ecology and Sociobiology</i> , 2012, 66, 1557-1567.	1.4	28
79	Quantification of a Male Sea Lamprey Pheromone in Tributaries of Laurentian Great Lakes by Liquid Chromatography-Tandem Mass Spectrometry. <i>Environmental Science & Technology</i> , 2011, 45, 6437-6443.	10.0	27
80	Understanding behavioral responses of fish to pheromones in natural freshwater environments. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2010, 196, 701-711.	1.6	45
81	A synthesized pheromone induces upstream movement in female sea lamprey and summons them into traps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1021-1026.	7.1	160
82	Mating Pheromone Reception and Induced Behavior in Ovulating Female Sea Lampreys. <i>North American Journal of Fisheries Management</i> , 2006, 26, 88-96.	1.0	48
83	Capture of Ovulating Female Sea Lampreys in Traps Baited with Spermiating Male Sea Lampreys. <i>North American Journal of Fisheries Management</i> , 2005, 25, 67-72.	1.0	44
84	Behavior of female adult Pacific lamprey (<i>Entosphenus tridentatus</i>) exposed to natural and synthesized odors. <i>Journal of Fish and Wildlife Management</i> , 0, , .	0.9	1