

Nicholas S Johnson

List of Publications by Year in descending order

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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	A synthesized pheromone induces upstream movement in female sea lamprey and summons them into traps. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1021-1026.	7.1	160
2	Reproductive Ecology of Lampreys. , 2015, , 265-303.		64
3	Bile Salts as Semiochemicals in Fish. Chemical Senses, 2014, 39, 647-654.	2.0	63
4	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
5	Application of a putative alarm cue hastens the arrival of invasive sea lamprey (<i>Petromyzon</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 1799-1806.	1.4	50
6	Mating Pheromone Reception and Induced Behavior in Ovulating Female Sea Lampreys. North American Journal of Fisheries Management, 2006, 26, 88-96.	1.0	48
7	Rapid evolution meets invasive species control: the potential for pesticide resistance in sea lamprey. Canadian Journal of Fisheries and Aquatic Sciences, 2018, 75, 152-168.	1.4	47
8	Understanding behavioral responses of fish to pheromones in natural freshwater environments. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2010, 196, 701-711.	1.6	45
9	Capture of Ovulating Female Sea Lampreys in Traps Baited with Spermiating Male Sea Lampreys. North American Journal of Fisheries Management, 2005, 25, 67-72.	1.0	44
10	Five-year evaluation of habitat remediation in Thunder Bay, Lake Huron: Comparison of constructed reef characteristics that attract spawning lake trout. Fisheries Research, 2016, 183, 275-286.	1.7	32
11	Theory and Application of Semiochemicals in Nuisance Fish Control. Journal of Chemical Ecology, 2016, 42, 698-715.	1.8	31
12	Blocking and guiding adult sea lamprey with pulsed direct current from vertical electrodes. Fisheries Research, 2014, 150, 38-48.	1.7	30
13	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
14	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
15	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
16	A renewed philosophy about supplemental sea lamprey controls. Journal of Great Lakes Research, 2021, 47, S742-S752.	1.9	29
17	Sea lamprey orient toward a source of a synthesized pheromone using odor-conditioned rheotaxis. Behavioral Ecology and Sociobiology, 2012, 66, 1557-1567.	1.4	28
18	Quantification of a Male Sea Lamprey Pheromone in Tributaries of Laurentian Great Lakes by Liquid Chromatography-Tandem Mass Spectrometry. Environmental Science & Technology, 2011, 45, 6437-6443.	10.0	27

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19	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
20	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
21	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
22	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
23	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
24	A Sea Lamprey (<i>Petromyzon marinus</i>) Sex Pheromone Mixture Increases Trap Catch Relative to a Single Synthesized Component in Specific Environments. <i>Journal of Chemical Ecology</i> , 2015, 41, 311-321.	1.8	22
25	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
26	A pheromone outweighs temperature in influencing migration of sea lamprey. <i>Royal Society Open Science</i> , 2015, 2, 150009.	2.4	19
27	Estimating reach-specific fish movement probabilities in rivers with a Bayesian state-space model: application to sea lamprey passage and capture at dams. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2014, 71, 1713-1729.	1.4	18
28	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
29	MANAGEMENT STRATEGY EVALUATION OF PHEROMONE-BAITED TRAPPING TECHNIQUES TO IMPROVE MANAGEMENT OF INVASIVE SEA LAMPREY. <i>Natural Resource Modelling</i> , 2016, 29, 448-469.	2.0	18
30	Where you trap matters: Implications for integrated sea lamprey management. <i>Journal of Great Lakes Research</i> , 2021, 47, S320-S327.	1.9	18
31	Exploiting common senses: sensory ecology meets wildlife conservation and management. , 2021, 9, coab002.		18
32	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
33	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
34	Mercury accumulation in sea lamprey (<i>Petromyzon marinus</i>) from Lake Huron. <i>Science of the Total Environment</i> , 2014, 470-471, 1313-1319.	8.0	16
35	Quantification of 15 bile acids in lake charr feces by ultra-high performance liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1001, 27-34.	2.3	16
36	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

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37	Evidence for partial overlap of male olfactory cues in lampreys. <i>Journal of Experimental Biology</i> , 2016, 220, 497-506.	1.7	16
38	Investigations of Novel Unsaturated Bile Salts of Male Sea Lamprey as Potential Chemical Cues. <i>Journal of Chemical Ecology</i> , 2014, 40, 1152-1160.	1.8	15
39	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
40	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
41	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
42	Glass Eel-Stage American Eels Respond to Conspecific Odor as a Function of Concentration. <i>Transactions of the American Fisheries Society</i> , 2016, 145, 712-722.	1.4	14
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	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
45	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
46	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
47	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
48	A thermogenic secondary sexual character in male sea lamprey. <i>Journal of Experimental Biology</i> , 2013, 216, 2702-2712.	1.7	12
49	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
50	Push and pull of downstream moving juvenile sea lamprey (<i>Petromyzon marinus</i>) exposed to chemosensory and light cues. , 2019, 7, coz080.		12
51	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
52	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. <i>Journal of Great Lakes Research</i> , 2016, 42, 90-98.	1.9	11
53	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
54	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

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55	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
56	Cyanobacteria reduce quagga mussel (<i>Dreissena rostriformis bugensis</i>) spawning and fertilization success. <i>Freshwater Science</i> , 2018, 37, 510-518.	1.8	10
57	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
58	What can commercial fishery data in the Great Lakes reveal about juvenile sea lamprey (<i>Petromyzon</i>) Tj ETQq0 0 0 rrgBT/Overlock 10 Tf	1.9	10
59	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
60	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
61	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
62	Electrical Guidance Efficiency of Downstreamâ€Migrating Juvenile Sea Lampreys Decreases with Increasing Water Velocity. <i>Transactions of the American Fisheries Society</i> , 2017, 146, 299-307.	1.4	9
63	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
64	Assessment of sea lamprey (<i>Petromyzon marinus</i>) diet using DNA metabarcoding of feces. <i>Ecological Indicators</i> , 2021, 125, 107605.	6.3	9
65	Behavioral evidence for a role of chemoreception during reproduction in lake trout. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 1847-1852.	1.4	8
66	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
67	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
68	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
69	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
70	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
71	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
72	Pheromone pollution from invasive sea lamprey misguides a native confamilial. <i>Environmental Epigenetics</i> , 2021, 67, 333-335.	1.8	5

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73	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
74	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
75	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
76	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
77	Odor-conditioned rheotaxis of the sea lamprey: modeling, analysis and validation. <i>Bioinspiration and Biomimetics</i> , 2013, 8, 046011.	2.9	3
78	Behavioural responses of female lake trout <i>Salvelinus namaycush</i> to male chemical stimuli and prostaglandin $F_{2\alpha}$. <i>Journal of Fish Biology</i> , 2020, 97, 1224-1227.	1.6	3
79	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
80	Gut Microbiota Associated With Different Sea Lamprey (<i>Petromyzon marinus</i>) Life Stages. <i>Frontiers in Microbiology</i> , 2021, 12, 706683.	3.5	3
81	Pedigree analysis and estimates of effective breeding size characterize sea lamprey reproductive biology. <i>Evolutionary Applications</i> , 2022, 15, 484-500.	3.1	3
82	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
83	Diel Patterns of Pheromone Release by Male Sea Lamprey. <i>Integrative and Comparative Biology</i> , 2021, , .	2.0	1
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