

Catherine R Mccrohan

List of Publications by Year in descending order

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49
papers

1,164
citations

361296

20
h-index

395590

33
g-index

49
all docs

49
docs citations

49
times ranked

1026
citing authors

#	ARTICLE	IF	CITATIONS
1	Nociception in fish: stimulusâ€™response properties of receptors on the head of trout <i>Oncorhynchus mykiss</i> . <i>Brain Research</i> , 2007, 1166, 47-54.	1.1	95
2	Avoidance responses to aluminium in the freshwater bivalve <i>Anodonta cygnea</i> . <i>Aquatic Toxicology</i> , 2001, 55, 137-148.	1.9	83
3	The efficacy of three types of analgesic drugs in reducing pain in the rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Applied Animal Behaviour Science</i> , 2011, 133, 265-274.	0.8	74
4	Coexpression of Corticotropin-Releasing Hormone and Urotensin I Precursor Genes in the Caudal Neurosecretory System of the Euryhaline Flounder (<i>Platichthys flesus</i>): A Possible Shared Role in Peripheral Regulation. <i>Endocrinology</i> , 2004, 145, 5786-5797.	1.4	71
5	Influence of aqueous aluminium on the immune system of the freshwater crayfish <i>Pacifastacus leniusculus</i> . <i>Aquatic Toxicology</i> , 2006, 77, 222-228.	1.9	67
6	Effect of noxious stimulation upon antipredator responses and dominance status in rainbow trout. <i>Animal Behaviour</i> , 2009, 77, 403-410.	0.8	61
7	Molecular Characterization and Expression of Urotensin II and its Receptor in the Flounder (<i>Platichthys flesus</i>): A Hormone System Supporting Body Fluid Homeostasis in Euryhaline Fish. <i>Endocrinology</i> , 2006, 147, 3692-3708.	1.4	57
8	Mucus Secretion by the Freshwater Snail <i>Lymnaea stagnalis</i> Limits Aluminum Concentrations of the Aqueous Environment. <i>Environmental Science & Technology</i> , 1998, 32, 2591-2595.	4.6	43
9	Properties of corneal receptors in a teleost fish. <i>Neuroscience Letters</i> , 2006, 410, 165-168.	1.0	39
10	Fish caudal neurosecretory system: A model for the study of neuroendocrine secretion. <i>General and Comparative Endocrinology</i> , 2007, 153, 243-250.	0.8	34
11	Characterisation of chemosensory trigeminal receptors in the rainbow trout, <i>Oncorhynchus mykiss</i> : responses to chemical irritants and carbon dioxide. <i>Journal of Experimental Biology</i> , 2012, 215, 685-693.	0.8	32
12	Cyclic AMP-stimulated sodium current in identified feeding neurons of <i>Lymnaea stagnalis</i> . <i>Brain Research</i> , 1988, 438, 115-123.	1.1	31
13	Cerebral Interneurones Controlling Feeding Motor Output In The Snail <i>Lymnaea Stagnalis</i> . <i>Journal of Experimental Biology</i> , 1989, 147, 361-374.	0.8	31
14	Aluminum-dependent regulation of intracellular silicon in the aquatic invertebrate <i>Lymnaea stagnalis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3394-3399.	3.3	28
15	Accumulation and toxicity of aluminium-contaminated food in the freshwater crayfish, <i>Pacifastacus leniusculus</i> . <i>Aquatic Toxicology</i> , 2011, 105, 535-542.	1.9	26
16	Seasonal changes in peptide, receptor and ion channel mRNA expression in the caudal neurosecretory system of the European flounder (<i>Platichthys flesus</i>). <i>General and Comparative Endocrinology</i> , 2007, 153, 262-272.	0.8	25
17	Avoidance of Aluminum Toxicity in Freshwater Snails Involves Intracellular Siliconâ€™Aluminum Biointeraction. <i>Environmental Science & Technology</i> , 2008, 42, 2189-2194.	4.6	25
18	Precise and Fuzzy Coding by Olfactory Sensory Neurons. <i>Journal of Neuroscience</i> , 2008, 28, 9710-9722.	1.7	24

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19	Cyclic AMP analogues increase excitability and enhance epileptiform activity in rat neocortex in vitro. <i>European Journal of Pharmacology</i> , 1993, 236, 131-136.	1.7	22
20	Modeling Peripheral Olfactory Coding in <i>Drosophila</i> Larvae. <i>PLoS ONE</i> , 2011, 6, e22996.	1.1	22
21	Aluminium exposure disrupts elemental homeostasis in <i>Caenorhabditis elegans</i> . <i>Metallomics</i> , 2012, 4, 512.	1.0	22
22	Effect of aluminum and silicic acid on the behaviour of the freshwater snail <i>Lymnaea stagnalis</i> . <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2000, 57, 1151-1159.	0.7	21
23	Trophic transfer of aluminium through an aquatic grazer-omnivore food chain. <i>Aquatic Toxicology</i> , 2010, 99, 93-99.	1.9	21
24	Characterization of an identified cerebrobuccal neuron containing the neuropeptide APGWamide (Ala-Pro-Gly-Trp-NH ₂) in the snail <i>Lymnaea stagnalis</i> . <i>Invertebrate Neuroscience</i> , 1997, 2, 273-282.	1.8	17
25	Effect of sub-lethal concentrations of aluminium on the filtration activity of the freshwater mussel <i>Anodonta cygnea</i> L. at neutral pH. <i>Acta Biologica Hungarica</i> , 2002, 53, 485-494.	0.7	17
26	Enhancement of cyclic AMP-dependent sodium current by the convulsant drug pentylenetetrazol. <i>Brain Research</i> , 1988, 452, 21-27.	1.1	16
27	Effects of metaldehyde and acetaldehyde on feeding responses and neuronal activity in the snail, <i>lymnaea stagnalis</i> . <i>Pest Management Science</i> , 1990, 28, 89-99.	0.6	16
28	Partial characterisation of high-molecular weight glycoconjugates in the trail mucus of the freshwater pond snail <i>Lymnaea stagnalis</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2004, 137, 475-486.	0.7	16
29	Evidence for nitric oxide role in the caudal neurosecretory system of the European flounder, <i>Platichthys flesus</i> . <i>General and Comparative Endocrinology</i> , 2007, 153, 251-261.	0.8	15
30	Interaction of mucus with freshly neutralised aluminium in freshwater. <i>Journal of Inorganic Biochemistry</i> , 2002, 92, 11-18.	1.5	13
31	Tissue accumulation of aluminium is not a predictor of toxicity in the freshwater snail, <i>Lymnaea stagnalis</i> . <i>Environmental Pollution</i> , 2009, 157, 2142-2146.	3.7	13
32	Effect of orthosilicic acid on the accumulation of trace metals by the pond snail <i>Lymnaea stagnalis</i> . <i>Aquatic Toxicology</i> , 2003, 64, 63-71.	1.9	10
33	The suitability of gallium as a substitute for aluminum in tracing experiments. <i>BioMetals</i> , 2010, 23, 221-230.	1.8	10
34	Electrophysiological responses to metaldehyde in neurones of the feeding circuitry of the snail <i>Lymnaea stagnalis</i> . <i>Pesticide Biochemistry and Physiology</i> , 1992, 42, 35-42.	1.6	9
35	The peripheral olfactory code in <i>Drosophila</i> larvae contains temporal information and is robust over multiple timescales. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160665.	1.2	9
36	Cortisol and prolactin modulation of caudal neurosecretory system activity in the euryhaline flounder <i>Platichthys flesus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008, 151, 71-77.	0.8	8

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37	Rapid non-equilibrium aluminium–ligand interactions: studies on the precipitation of aluminium by laser light scattering, ultrafiltration and centrifugation. <i>Journal of Inorganic Biochemistry</i> , 2001, 87, 29-35.	1.5	7
38	Nitric Oxide Potentiates cAMP-Gated Cation Current by Intracellular Acidification in Feeding Neurons of Pleurobranchaea. <i>Journal of Neurophysiology</i> , 2010, 104, 742-745.	0.9	7
39	Differential responses of two identified neurons of the pond snail <i>Lymnaea stagnalis</i> to the convulsant drug pentylenetetrazol. <i>Brain Research</i> , 1991, 565, 247-253.	1.1	6
40	Effects of metaldehyde and acetaldehyde on specific membrane currents in neurones of the pond snail <i>Lymnaea stagnalis</i> . <i>Pest Management Science</i> , 1992, 34, 243-247.	0.6	6
41	Gene expression and hormone secretion profile of urotensin I associated with osmotic challenge in caudal neurosecretory system of the euryhaline flounder, <i>Platichthys flesus</i> . <i>General and Comparative Endocrinology</i> , 2019, 277, 49-55.	0.8	4
42	New insights into urotensin endocrinology: From fish to man. <i>General and Comparative Endocrinology</i> , 2007, 153, 241-242.	0.8	3
43	Properties of cyclic AMP-dependent inward current in two identified neurons of the snail <i>Lymnaea stagnalis</i> . <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1992, 101, 131-136.	0.2	2
44	Response to Comment on “Avoidance of Aluminum Toxicity in Freshwater Snails Involves Intracellular Silicon” <i>Aluminum Biointeraction</i> . <i>Environmental Science & Technology</i> , 2008, 42, 5375-5376.	4.6	2
45	cAMP, Ca ²⁺ , pH _i , and NO Regulate H-like Cation Channels That Underlie Feeding and Locomotion in the Predatory Sea Slug <i>Pleurobranchaea californica</i> . <i>ACS Chemical Neuroscience</i> , 2018, 9, 1986-1993.	1.7	2
46	Bioaccumulation and toxicity of aluminium in the pond snail at neutral pH. <i>Acta Biologica Hungarica</i> , 2000, 51, 309-316.	0.7	2
47	Inhibition of slow TTX-insensitive inward current by the anticonvulsant carbamazepine in an identified neuron of <i>Lymnaea stagnalis</i> . <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1992, 103, 549-551.	0.2	0
48	Application of the critical precipitation assay to complex samples: aluminium binding capacity of human gastrointestinal fluids. <i>Chemical Speciation and Bioavailability</i> , 2004, 16, 97-104.	2.0	0
49	A rapid non-equilibrium critical precipitation assay to assess aluminium-ligand interactions. <i>Chemical Speciation and Bioavailability</i> , 2004, 16, 87-96.	2.0	0