

Charles D Derby

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,644
citations

279798

23
h-index

289244

40
g-index

46
all docs

46
docs citations

46
times ranked

1214
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Processing, Perception, and Behavioral Responses to Natural Chemical Stimuli by Fish and Crustaceans. <i>Journal of Chemical Ecology</i> , 2008, 34, 898-914.	1.8	159
2	Chemically stimulated feeding behavior in marine animals. <i>Journal of Chemical Ecology</i> , 1986, 12, 989-1011.	1.8	146
3	Escape by Inking and Secreting: Marine Molluscs Avoid Predators Through a Rich Array of Chemicals and Mechanisms. <i>Biological Bulletin</i> , 2007, 213, 274-289.	1.8	116
4	Learning from spiny lobsters about chemosensory coding of mixtures. <i>Physiology and Behavior</i> , 2000, 69, 203-209.	2.1	93
5	Behavioral chemoattractants for the shrimp, <i>Palaemonetes pugio</i> : identification of active components in food extracts and evidence of synergistic mixture interactions. <i>Chemical Senses</i> , 1986, 11, 49-64.	2.0	89
6	Molecular Mechanisms of Reception and Perireception in Crustacean Chemoreception: A Comparative Review. <i>Chemical Senses</i> , 2016, 41, 381-398.	2.0	76
7	Mixture suppression in olfaction: electrophysiological evaluation of the contribution of peripheral and central neural components. <i>Chemical Senses</i> , 1985, 10, 301-316.	2.0	66
8	Chemical Composition of Inks of Diverse Marine Molluscs Suggests Convergent Chemical Defenses. <i>Journal of Chemical Ecology</i> , 2007, 33, 1105-1113.	1.8	66
9	Finding food: how marine invertebrates use chemical cues to track and select food. <i>Natural Product Reports</i> , 2017, 34, 514-528.	10.3	63
10	Functional units of a compound nose: Aesthetasc sensilla house similar populations of olfactory receptor neurons on the crustacean antennule. <i>Journal of Comparative Neurology</i> , 2000, 418, 270-280.	1.6	58
11	Postembryonic proliferation in the spiny lobster antennular epithelium: Rate of genesis of olfactory receptor neurons is dependent on molt stage. <i>Journal of Neurobiology</i> , 2001, 47, 51-66.	3.6	52
12	Electrophysiological identification of the stimulatory and interactive components of a complex odorant. <i>Chemical Senses</i> , 1984, 9, 201-218.	2.0	51
13	Chemoreceptor proteins in the Caribbean spiny lobster, <i>Panulirus argus</i> : Expression of Ionotropic Receptors, Gustatory Receptors, and TRP channels in two chemosensory organs and brain. <i>PLoS ONE</i> , 2018, 13, e0203935.	2.5	45
14	Krill meal enhances performance of feed pellets through concentration-dependent prolongation of consumption by Pacific white shrimp, <i>Litopenaeus vannamei</i> . <i>Aquaculture</i> , 2016, 458, 13-20.	3.5	40
15	The peripheral and central antennular pathway of the Caribbean stomatopod crustacean <i>Neogonodactylus oerstedii</i> . <i>Arthropod Structure and Development</i> , 2003, 32, 175-188.	1.4	38
16	Comparison of transcriptomes from two chemosensory organs in four decapod crustaceans reveals hundreds of candidate chemoreceptor proteins. <i>PLoS ONE</i> , 2020, 15, e0230266.	2.5	38
17	Distribution of dopamine-like immunoreactivity suggests a role for dopamine in the courtship display behavior of the blue crab, <i>Callinectes sapidus</i> . <i>Cell and Tissue Research</i> , 1996, 285, 321-330.	2.9	37
18	Multiple excitatory receptor types on individual olfactory neurons: implications for coding of mixtures in the spiny lobster. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1997, 180, 481-491.	1.6	37

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19	Perception of odor mixtures by the spiny lobster <i>Panulirus argus</i> . <i>Chemical Senses</i> , 1994, 19, 331-347.	2.0	32
20	The Neuroecology of Chemical Defenses. <i>Integrative and Comparative Biology</i> , 2011, 51, 771-780.	2.0	30
21	A CUB-serine protease in the olfactory organ of the spiny lobster <i>Panulirus argus</i> . <i>Journal of Neurobiology</i> , 2001, 49, 277-302.	3.6	27
22	Isolation and Structural Elucidation of Novel Mycosporine-Like Amino Acids as Alarm Cues in the Defensive Ink Secretion of the Sea Hare <i>Aplysia californica</i> . <i>Helvetica Chimica Acta</i> , 2011, 94, 1012-1018.	1.6	25
23	Biochemical characterization of independent olfactory receptor sites for 5 α -AMP and taurine in the spiny lobster. <i>Brain Research</i> , 1992, 583, 262-270.	2.2	24
24	Oesophageal chemoreceptors of blue crabs, <i>Callinectes sapidus</i> , sense chemical deterrents and can block ingestion of food. <i>Journal of Experimental Biology</i> , 2012, 215, 1700-1710.	1.7	21
25	Non-reciprocal cross-adaptation of spiking responses of individual olfactory receptor neurons of spiny lobsters: evidence for two excitatory transduction pathways. <i>Brain Research</i> , 1994, 643, 136-149.	2.2	20
26	Comparison of turnover in the olfactory organ of early juvenile stage and adult Caribbean spiny lobsters. <i>Arthropod Structure and Development</i> , 2003, 31, 297-311.	1.4	19
27	Using age to evaluate reproduction in Caribbean spiny lobster, <i>Panulirus argus</i> , in the Florida Keys and Dry Tortugas, United States. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2009, 43, 139-149.	2.0	19
28	Single cell transcriptomes reveal expression patterns of chemoreceptor genes in olfactory sensory neurons of the Caribbean spiny lobster, <i>Panulirus argus</i> . <i>BMC Genomics</i> , 2020, 21, 649.	2.8	19
29	Lobster olfactory genomics. <i>Integrative and Comparative Biology</i> , 2006, 46, 940-947.	2.0	16
30	Distribution and function of <i>splash</i> , an <i>achaete-scute</i> homolog in the adult olfactory organ of the Caribbean spiny lobster <i>Panulirus argus</i> . <i>Developmental Neurobiology</i> , 2011, 71, 316-335.	3.0	15
31	Inhibition and Dispersal of <i>Pseudomonas aeruginosa</i> Biofilms by Combination Treatment with Escapin Intermediate Products and Hydrogen Peroxide. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 5554-5562.	3.2	15
32	Ink From Longfin Inshore Squid, <i>Doryteuthis pealeii</i> , as a Chemical and Visual Defense Against Two Predatory Fishes, Summer Flounder, <i>Paralichthys dentatus</i> , and Sea Catfish, <i>Ariopsis felis</i> . <i>Biological Bulletin</i> , 2013, 225, 152-160.	1.8	14
33	The Crustacean Antennule: A Complex Organ Adapted for Lifelong Function in Diverse Environments and Lifestyles. <i>Biological Bulletin</i> , 2021, 240, 67-81.	1.8	11
34	Proctolinlike immunoreactivity and identified neurosecretory cells as putative substrates for modulation of courtship display behavior in the blue crab, <i>Callinectes sapidus</i> . , 1996, 368, 153-163.		10
35	Oxygen sensing in crustaceans: functions and mechanisms. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2021, 207, 1-15.	1.6	10
36	G protein-coupled receptors as candidates for modulation and activation of the chemical senses in decapod crustaceans. <i>PLoS ONE</i> , 2021, 16, e0252066.	2.5	10

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37	Chemosensory Basis of Feeding Behavior in Pacific White Shrimp, <i>Litopenaeus vannamei</i> . Biological Bulletin, 2020, 239, 115-131.	1.8	9
38	Sexually dimorphic patterns of neural organization in the feeding appendages of fiddler crabs. Cell and Tissue Research, 1996, 286, 155-166.	2.9	8
39	Use of neurolipofuscin to determine age structure and growth rates of Caribbean spiny lobster <i>Panulirus argus</i> in Florida, United States. New Zealand Journal of Marine and Freshwater Research, 2009, 43, 125-137.	2.0	8
40	Pulse magnetization elicits differential gene expression in the central nervous system of the Caribbean spiny lobster, <i>Panulirus argus</i> . Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2020, 206, 725-742.	1.6	4
41	Transsexual limb transplants in fiddler crabs and expression of novel sensory capabilities. Journal of Comparative Neurology, 2001, 440, 311-320.	1.6	3
42	Symposium Overview. Annals of the New York Academy of Sciences, 2009, 1170, 447-449.	3.8	1
43	Understanding responses to chemical mixtures: looking forward from the past. Chemical Senses, 2022, 47, .	2.0	1
44	Cytoarchitecture and ultrastructure of neural stem cell niches and neurogenic complexes maintaining adult neurogenesis in the olfactory midbrain of spiny lobsters, <i>Panulirus argus</i> . Journal of Comparative Neurology, 2011, 519, Spc1-Spc1.	1.6	0
45	Jelle Atema, an original: a tribute to his career. Bulletin of Marine Science, 2018, 94, 467-478.	0.8	0