Charles D Derby

List of Publications by Year
in descending order

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	Understanding responses to chemical mixtures: looking forward from the past. Chemical Senses, 2022, 47, .	2.0	1
2	Oxygen sensing in crustaceans: functions and mechanisms. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2021, 207, 1-15.	1.6	10
3	The Crustacean Antennule: A Complex Organ Adapted for Lifelong Function in Diverse Environments and Lifestyles. Biological Bulletin, 2021, 240, 67-81.	1.8	11
4	G protein-coupled receptors as candidates for modulation and activation of the chemical senses in decapod crustaceans. PLoS ONE, 2021, 16, e0252066.	2.5	10
5	Single cell transcriptomes reveal expression patterns of chemoreceptor genes in olfactory sensory neurons of the Caribbean spiny lobster, Panulirus argus. BMC Genomics, 2020, 21, 649.	2.8	19
6	Pulse magnetization elicits differential gene expression in the central nervous system of the Caribbean spiny lobster, Panulirus argus. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2020, 206, 725-742.	1.6	4
7	Chemosensory Basis of Feeding Behavior in Pacific White Shrimp,<i>Litopenaeus vannamei</i>. Biological Bulletin, 2020, 239, 115-131.	1.8	9
8	Comparison of transcriptomes from two chemosensory organs in four decapod crustaceans reveals hundreds of candidate chemoreceptor proteins. PLoS ONE, 2020, 15, e0230266.	2.5	38
9	Jelle Atema, an original: a tribute to his career. Bulletin of Marine Science, 2018, 94, 467-478.	0.8	0
10	Chemoreceptor proteins in the Caribbean spiny lobster, Panulirus argus: Expression of Ionotropic Receptors, Gustatory Receptors, and TRP channels in two chemosensory organs and brain. PLoS ONE, 2018, 13, e0203935.	2.5	45
11	Finding food: how marine invertebrates use chemical cues to track and select food. Natural Product Reports, 2017, 34, 514-528.	10.3	63
12	Molecular Mechanisms of Reception and Perireception in Crustacean Chemoreception: A Comparative Review. Chemical Senses, 2016, 41, 381-398.	2.0	76
13	Inhibition and Dispersal of Pseudomonas aeruginosa Biofilms by Combination Treatment with Escapin Intermediate Products and Hydrogen Peroxide. Antimicrobial Agents and Chemotherapy, 2016, 60, 5554-5562.	3.2	15
14	Krill meal enhances performance of feed pellets through concentration-dependent prolongation of consumption by Pacific white shrimp, Litopenaeus vannamei. Aquaculture, 2016, 458, 13-20.	3.5	40
15	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>. Biological Bulletin, 2013, 225, 152-160.	1.8	14
16	Oesophageal chemoreceptors of blue crabs,<i>Callinectes sapidus</i>, sense chemical deterrents and can block ingestion of food. Journal of Experimental Biology, 2012, 215, 1700-1710.	1.7	21
17	Cytoarchitecture and ultrastructure of neural stem cell niches and neurogenic complexes maintaining adult neurogenesis in the olfactory midbrain of spiny lobsters, Panulirus argus. Journal of Comparative Neurology, 2011, 519, Spc1-Spc1.	1.6	0
18	Distribution and function of <i>splash</i>, an <i>achaeteâ€scute</i> homolog in the adult olfactory organ of the Caribbean spiny lobster <i>Panulirus argus</i>. Developmental Neurobiology, 2011, 71, 316-335.	3.0	15

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19	Isolation and Structural Elucidation of Novel Mycosporineâ€Łike Amino Acids as Alarm Cues in the Defensive Ink Secretion of the Sea Hare <i>Aplysia californica</i>. Helvetica Chimica Acta, 2011, 94, 1012-1018.	1.6	25
20	The Neuroecology of Chemical Defenses. Integrative and Comparative Biology, 2011, 51, 771-780.	2.0	30
21	Using age to evaluate reproduction in Caribbean spiny lobster,<i>Panulirus argus</i>, in the Florida Keys and Dry Tortugas, United States. New Zealand Journal of Marine and Freshwater Research, 2009, 43, 139-149.	2.0	19
22	Symposium Overview. Annals of the New York Academy of Sciences, 2009, 1170, 447-449.	3.8	1
23	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
24	Neural Processing, Perception, and Behavioral Responses to Natural Chemical Stimuli by Fish and Crustaceans. Journal of Chemical Ecology, 2008, 34, 898-914.	1.8	159
25	Escape by Inking and Secreting: Marine Molluscs Avoid Predators Through a Rich Array of Chemicals and Mechanisms. Biological Bulletin, 2007, 213, 274-289.	1.8	116
26	Chemical Composition of Inks of Diverse Marine Molluscs Suggests Convergent Chemical Defenses. Journal of Chemical Ecology, 2007, 33, 1105-1113.	1.8	66
27	Lobster olfactory genomics. Integrative and Comparative Biology, 2006, 46, 940-947.	2.0	16
28	Comparison of turnover in the olfactory organ of early juvenile stage and adult Caribbean spiny lobsters. Arthropod Structure and Development, 2003, 31, 297-311.	1.4	19
29	The peripheral and central antennular pathway of the Caribbean stomatopod crustacean Neogonodactylus oerstedii. Arthropod Structure and Development, 2003, 32, 175-188.	1.4	38
30	A CUB-serine protease in the olfactory organ of the spiny lobsterPanulirus argus. Journal of Neurobiology, 2001, 49, 277-302.	3.6	27
31	Postembryonic proliferation in the spiny lobster antennular epithelium: Rate of genesis of olfactory receptor neurons is dependent on molt stage. Journal of Neurobiology, 2001, 47, 51-66.	3.6	52
32	Transsexual limb transplants in fiddler crabs and expression of novel sensory capabilities. Journal of Comparative Neurology, 2001, 440, 311-320.	1.6	3
33	Functional units of a compound nose: Aesthetasc sensilla house similar populations of olfactory receptor neurons on the crustacean antennule. Journal of Comparative Neurology, 2000, 418, 270-280.	1.6	58
34	Learning from spiny lobsters about chemosensory coding of mixtures. Physiology and Behavior, 2000, 69, 203-209.	2.1	93
35	Multiple excitatory receptor types on individual olfactory neurons: implications for coding of mixtures in the spiny lobster. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1997, 180, 481-491.	1.6	37
36	Distribution of dopamine-like immunoreactivity suggests a role for dopamine in the courtship display behavior of the blue crab, Callinectes sapidus. Cell and Tissue Research, 1996, 285, 321-330.	2.9	37

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37	Sexually dimorphic patterns of neural organization in the feeding appendages of fiddler crabs. Cell and Tissue Research, 1996, 286, 155-166.	2.9	8
38	Proctolinlike immunoreactivity and identified neurosecretory cells as putative substrates for modulation of courtship display behavior in the blue crab,Callinectes sapidus. , 1996, 368, 153-163.		10
39	Perception of odor mixtures by the spiny lobster Panulirus argus. Chemical Senses, 1994, 19, 331-347.	2.0	32
40	Non-reciprocal cross-adaptation of spiking responses of individual olfactory receptor neurons of spiny lobsters: evidence for two excitatory transduction pathways. Brain Research, 1994, 643, 136-149.	2.2	20
41	Biochemical characterization of independent olfactory receptor sites for 5â€²-AMP and taurine in the spiny lobster. Brain Research, 1992, 583, 262-270.	2.2	24
42	Chemically stimulated feeding behavior in marine animals. Journal of Chemical Ecology, 1986, 12, 989-1011.	1.8	146
43	Behavioral chemoattractants for the shrimp, Palaemonetes pugio: identification of active components in food extracts and evidence of synergistic mixture interactions. Chemical Senses, 1986, 11, 49-64.	2.0	89
44	Mixture suppression in olfaction: electrophysiological evaluation of the contribution of peripheral and central neural components. Chemical Senses, 1985, 10, 301-316.	2.0	66
45	Electrophysiological identification of the stimulatory and interactive components of a complex odorant. Chemical Senses, 1984, 9, 201-218.	2.0	51