

Christopher D Marshall

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,932
citations

218592

26
h-index

265120

42
g-index

60
all docs

60
docs citations

60
times ranked

1270
citing authors

#	ARTICLE	IF	CITATIONS
1	Jaw muscles and the skull in mammals: the biomechanics of mastication. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2001, 131, 207-219.	0.8	132
2	Electroreception in the Guiana dolphin (<i>Sotalia guianensis</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 663-668.	1.2	104
3	Biomechanics of the rostrum and the role of facial sutures. <i>Journal of Morphology</i> , 2003, 257, 33-44.	0.6	101
4	Feeding kinematics of <i>Kogia</i> and <i>Tursiops</i> (Odontoceti:Cetacea): characterization of suction and ram feeding. <i>Journal of Experimental Biology</i> , 2005, 208, 3721-3730.	0.8	81
5	Microstructure and innervation of the mystacial vibrissal follicle-sinus complex in bearded seals, <i>Erignathus barbatus</i> (Pinnipedia: Phocidae). <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 13-25.	2.0	77
6	Feeding kinematics, suction and hydraulic jetting capabilities in bearded seals (<i>Erignathus</i>) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542</i>	0.8	74
7	PREHENSILE USE OF PERIORAL BRISTLES DURING FEEDING AND ASSOCIATED BEHAVIORS OF THE FLORIDA MANATEE (<i>TRICHECHUS MANATUS LATIROSTRIS</i>). <i>Marine Mammal Science</i> , 1998, 14, 274-289.	0.9	73
8	Microanatomy of Facial Vibrissae in the Florida Manatee: The Basis for Specialized Sensory Function and Oripulation. <i>Brain, Behavior and Evolution</i> , 2001, 58, 1-14.	0.9	71
9	Fused Traditional and Geometric Morphometrics Demonstrate Pinniped Whisker Diversity. <i>PLoS ONE</i> , 2012, 7, e34481.	1.1	69
10	DISTRIBUTION AND INNERVATION OF FACIAL BRISTLES AND HAIRS IN THE FLORIDA MANATEE (<i>TRICHECHUS</i>) <i>Tj ETQq0 0 0 rgBT /Overlo</i>	0.9	68
11	Tactile Hairs on the Postcranial Body in Florida Manatees: A Mammalian Lateral Line?. <i>Brain, Behavior and Evolution</i> , 2002, 59, 141-154.	0.9	62
12	Innervation patterns of sea otter (<i>Enhydra lutris</i>) mystacial follicle-sinus complexes. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 121.	0.9	61
13	Orofacial morphology and feeding behaviour of the dugong, Amazonian, West African and Antillean manatees (Mammalia: Sirenia): functional morphology of the muscular-vibrissal complex. <i>Journal of Zoology</i> , 2003, 259, 245-260.	0.8	58
14	Comparative feeding kinematics and performance of odontocetes: belugas, Pacific white-sided dolphins and long-finned pilot whales. <i>Journal of Experimental Biology</i> , 2009, 212, 3939-3950.	0.8	53
15	Follicle Microstructure and Innervation Vary between Pinniped Micro- and Macro-vibrissae. <i>Brain, Behavior and Evolution</i> , 2016, 88, 43-58.	0.9	51
16	Feeding Kinematics, Suction, and Hydraulic Jetting Performance of Harbor Seals (<i>Phoca vitulina</i>). <i>PLoS ONE</i> , 2014, 9, e86710.	1.1	50
17	THE MUSCULAR HYDROSTAT OF THE FLORIDA MANATEE (<i>TRICHECHUS MANATUS LATIROSTRIS</i>): A FUNCTIONAL MORPHOLOGICAL MODEL OF PERIORAL BRISTLE USE. <i>Marine Mammal Science</i> , 1998, 14, 290-303.	0.9	45
18	Eastern oysters <i>Crassostrea virginica</i> deter crab predators by altering their morphology in response to crab cues. <i>Aquatic Biology</i> , 2014, 20, 111-118.	0.5	45

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19	Hydrodynamic perception in true seals (Phocidae) and eared seals (Otariidae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 421-440.	0.7	42
20	The ontogenetic scaling of bite force and head size in loggerhead sea turtles (<i>Caretta caretta</i>): implications for durophagy in neritic, benthic habitats. <i>Journal of Experimental Biology</i> , 2012, 215, 4166-74.	0.8	41
21	Tooth Loss Precedes the Origin of Baleen in Whales. <i>Current Biology</i> , 2018, 28, 3992-4000.e2.	1.8	40
22	Divergent Skull Morphology Supports Two Trophic Specializations in Otters (Lutrinae). <i>PLoS ONE</i> , 2015, 10, e0143236.	1.1	37
23	A functional comparison of the hyolingual complex in pygmy and dwarf sperm whales (<i>Kogia</i>) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i> 78-91.	0.9	34
24	Integration of multi-tissue PAH and PCB burdens with biomarker activity in three coastal shark species from the northwestern Gulf of Mexico. <i>Science of the Total Environment</i> , 2019, 650, 1158-1172.	3.9	31
25	Feeding kinematics and performance of basal otariid pinnipeds, Steller sea lions (<i>Eumetopias</i>) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10</i> mammalian feeding. <i>Journal of Experimental Biology</i> , 2015, 218, 3229-40.	0.8	30
26	FOOD-HANDLING ABILITY AND FEEDING-CYCLE LENGTH OF MANATEES FEEDING ON SEVERAL SPECIES OF AQUATIC PLANTS. <i>Journal of Mammalogy</i> , 2000, 81, 649-658.	0.6	29
27	Are Vibrissae Viable Sensory Structures for Prey Capture in Northern Elephant Seals, <i>Trionyx angustirostris</i> ? <i>Anatomical Record</i> , 2015, 298, 750-760.	0.8	28
28	Patterns of cetacean vaginal folds yield insights into functionality. <i>PLoS ONE</i> , 2017, 12, e0175037.	1.1	24
29	Do sharks exhibit heterodonty by tooth position and over ontogeny? A comparison using elliptic Fourier analysis. <i>Journal of Morphology</i> , 2019, 280, 687-700.	0.6	23
30	Variation in Female Reproductive Tract Morphology of the Common Bottlenose Dolphin (<i>Tursiops truncatus</i>). <i>Anatomical Record</i> , 2016, 299, 520-537.	0.8	18
31	Feeding in Aquatic Mammals: An Evolutionary and Functional Approach. <i>Fascinating Life Sciences</i> , 2019, , 743-785.	0.5	18
32	Comparative Analysis of the Flexural Stiffness of Pinniped Vibrissae. <i>PLoS ONE</i> , 2015, 10, e0127941.	1.1	18
33	Somatotopic Organization of Perioral Musculature Innervation within the Pig Facial Motor Nucleus. <i>Brain, Behavior and Evolution</i> , 2005, 66, 22-34.	0.9	17
34	Morphological analysis of the bumpy profile of phocid vibrissae. <i>Marine Mammal Science</i> , 2009, 26, 733.	0.9	17
35	Scaling of bite performance with head and carapace morphometrics in green turtles (<i>Chelonia mydas</i>). <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 451, 91-97.	0.7	17
36	Large dugong (<i>Dugong dugon</i>) aggregations persist in coastal Qatar. <i>Marine Mammal Science</i> , 2018, 34, 1154-1163.	0.9	17

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37	Feeding biomechanics of juvenile red snapper (<i>Lutjanus campechanus</i>) from the northwestern Gulf of Mexico. <i>Journal of Experimental Biology</i> , 2008, 211, 3826-3835.	0.8	16
38	Prenatal data impacts common bottlenose dolphin (<i>Tursiops truncatus</i>) growth parameters estimated by length-at-age curves. <i>Marine Mammal Science</i> , 2011, 27, 195-216.	0.9	14
39	Alveoli, teeth, and tooth loss: Understanding the homology of internal mandibular structures in mysticete cetaceans. <i>PLoS ONE</i> , 2017, 12, e0178243.	1.1	13
40	Nesting ecology of hawksbill turtles, <i>Eretmochelys imbricata</i> , in an extreme environmental setting. <i>PLoS ONE</i> , 2018, 13, e0203257.	1.1	12
41	Does Vibrissal Innervation Patterns and Investment Predict Hydrodynamic Trail Following Behavior of Harbor Seals (<i>Phoca vitulina</i>)?. <i>Anatomical Record</i> , 2019, 302, 1837-1845.	0.8	11
42	Feeding Morphology. , 2009, , 406-414.		10
43	Behavioral responses of minke whales (<i>Balaenoptera acutorostrata</i>) to experimental fishing gear in a coastal environment. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 413, 13-20.	0.7	10
44	Durophagous biting in sea otters (<i>Enhydra lutris</i>) differs kinematically from raptorial biting of other marine mammals. <i>Journal of Experimental Biology</i> , 2017, 220, 4703-4710.	0.8	8
45	Environmental Drivers of Habitat Use by Hawksbill Turtles (<i>Eretmochelys imbricata</i>) in the Arabian Gulf (Qatar). <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	8
46	Diplomacy for the world's hottest sea. <i>Science</i> , 2022, 376, 1389-1390.	6.0	8
47	Topographical Organization of the Facial Motor Nucleus in Florida Manatees (<i>Trichechus manatus</i>)	0.9	7
48	Morphology of the Bearded Seal (<i>Erignathus barbatus</i>) Muscular Vibrissal Complex: A Functional Model for Phocid Subambient Pressure Generation. <i>Anatomical Record</i> , 2016, 299, 1043-1053.	0.8	7
49	Vulnerability of Sirenians. , 2012, , 12-20.		7
50	Regeneration of posterior segments and terminal structures in the bearded fireworm, <i>Hermodice carunculata</i> (Annelida: Amphinomidae). <i>Journal of Morphology</i> , 2014, 275, 1103-1112.	0.6	6
51	Beyond Suction-Feeding Fishes: Identifying New Approaches to Performance Integration During Prey Capture in Aquatic Vertebrates. <i>Integrative and Comparative Biology</i> , 2019, 59, 456-472.	0.9	5
52	Innervation patterns of mystacial vibrissae support active touch behaviors in California sea lions (<i>Urocyon</i>)	0.6	5
53	Reproductive and stress-related hormones in whiskers from two North Pacific phocids: Harbor and ringed seals. <i>Marine Mammal Science</i> , 2020, 36, 1322-1333.	0.9	5
54	Morphological and Sensory Innovations for an Aquatic Lifestyle. <i>Ethology and Behavioral Ecology of Marine Mammals</i> , 2022, , 19-65.	0.4	5

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55	Short Note: Low Prevalence of Visual Impairment in a Coastal Population of Gray Seals (<i>Halichoerus</i>) Tj ETQq1 1 0.784314 rgBT /Over	0.4	4
56	The Dawn of Desmatophocidae: A New Species of Basal Desmatophocid Seal (Mammalia, Carnivora) from the Miocene of Oregon, U.S.A.. <i>Journal of Vertebrate Paleontology</i> , 2020, 40, e1789867.	0.4	4
57	Feeding Morphology. , 2018, , 349-354.		3
58	Puncture performance tests reveal distinct feeding modes in pinniped teeth. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	3
59	Microstructure of the Bonnethead Shark (<i>Sphyrna tiburo</i>) Olfactory Rosette. <i>Integrative Organismal Biology</i> , 2022, 4, .	0.9	3
60	Short Note: Air Release from the Left Orbit of an Indo-Pacific Bottlenose Dolphin (<i>Tursiops aduncus</i>): Symptomatic and Anatomical Aspects. <i>Aquatic Mammals</i> , 2013, 39, 97-100.	0.4	2