Kenneth J Lohmann

List of Publications by Year
in descending order

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76 papers	4,441 citations	109321 35 h-index	106344 65 g-index
77 all docs	77 docs citations	77 times ranked	2810 citing authors

#	Article	IF	Citations
1	Magnetic maps in animal navigation. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2022, 208, 41-67.	1.6	20
2	Environmental sources of radio frequency noise: potential impacts on magnetoreception. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2022, 208, 83-95.	1.6	6
3	Magnetoreception and magnetic navigation in fishes: a half century of discovery. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2022, 208, 19-40.	1.6	11
4	Magnetotactic bacteria: concepts, conundrums, and insights from a novelÂin situÂapproach using digital holographic microscopy (DHM). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2022, 208, 107-124.	1.6	2
5	Long-distance transequatorial navigation using sequential measurements of magnetic inclination angle. Journal of the Royal Society Interface, 2021, 18, 20200887.	3.4	6
6	LACTIC ACIDOSIS INDUCED BY MANUAL RESTRAINT FOR HEALTH EVALUATION AND COMPARISON OF TWO POINT-OF-CARE ANALYZERS IN HEALTHY LOGGERHEAD SEA TURTLES (CARETTA CARETTA). Journal of Zoo and Wildlife Medicine, 2021, 52, 1195-1204.	0.6	1
7	Effective mydriasis in juvenile loggerhead turtles (Caretta caretta) following topical administration of rocuronium bromide and 10% phenylephrine. Veterinary Ophthalmology, 2020, 23, 37-43.	1.0	6
8	Behavioral evidence for geomagnetic imprinting and transgenerational inheritance in fruit flies. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1216-1222.	7.1	14
9	Animal navigation: a noisy magnetic sense?. Journal of Experimental Biology, 2020, 223, .	1.7	20
10	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
11	Odors from marine plastic debris elicit foraging behavior in sea turtles. Current Biology, 2020, 30, R213-R214.	3.9	51
12	Mass-nesting events in olive ridley sea turtles: environmental predictors of timing and size. Animal Behaviour, 2020, 163, 85-94.	1.9	9
13	Magnetoreception in fishes: the effect of magnetic pulses on orientation of juvenile Pacific salmon. Journal of Experimental Biology, 2020, 223, .	1.7	16
14	There and back again: natal homing by magnetic navigation in sea turtles and salmon. Journal of Experimental Biology, 2019, 222, .	1.7	54
15	Sea Turtles: Navigation and Orientation. , 2019, , 564-572.		1
16	A convolutional neural network for detecting sea turtles in drone imagery. Methods in Ecology and Evolution, 2019, 10, 345-355.	5.2	94
17	Evidence that Magnetic Navigation and Geomagnetic Imprinting Shape Spatial Genetic Variation in Sea Turtles. Current Biology, 2018, 28, 1325-1329.e2.	3.9	40
18	Geomagnetic field influences upward movement of young Chinook salmon emerging from nests. Biology Letters, 2018, 14, 20170752.	2.3	17

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19	Size-dependent avoidance of a strong magnetic anomaly in Caribbean spiny lobsters. Journal of Experimental Biology, 2018, 221, .	1.7	7
20	Haematology and biochemistry of the San CristÃ³bal Lava Lizard (Microlophus bivittatus). , 2018, 6, coy046.		12
21	Animal migration research takes wing. Current Biology, 2018, 28, R952-R955.	3.9	17
22	Near absence of differential gene expression in the retina of rainbow trout after exposure to a magnetic pulse: implications for magnetoreception. Biology Letters, 2018, 14, 20180209.	2.3	4
23	Candidate genes mediating magnetoreception in rainbow trout (Oncorhynchus mykiss). Biology Letters, 2017, 13, 20170142.	2.3	21
24	Detection of magnetic field properties using distributed sensing: a computational neuroscience approach. Bioinspiration and Biomimetics, 2017, 12, 036013.	2.9	7
25	Quantifying Nearshore Sea Turtle Densities: Applications of Unmanned Aerial Systems for Population Assessments. Scientific Reports, 2017, 7, 17690.	3.3	43
26	Blood gases, biochemistry and haematology of GalÃ¡pagos hawksbill turtles (Eretmochelys imbricata). , 2017, 5, cox028.		22
27	Multi-Modal Homing in Sea Turtles: Modeling Dual Use of Geomagnetic and Chemical Cues in Island-Finding. Frontiers in Behavioral Neuroscience, 2016, 10, 19.	2.0	39
28	Effect of magnetic pulses on Caribbean spiny lobsters: implications for magnetoreception. Journal of Experimental Biology, 2016, 219, 1827-32.	1.7	24
29	Sea Turtles: A Case of Animal Magnetism. Chance, 2016, 29, 4-9.	0.2	1
30	A candidate magnetoreceptor. Nature Materials, 2016, 15, 136-138.	27.5	18
31	Blood gases, biochemistry and haematology of GalÃ¡pagos marine iguanas (Amblyrhynchus) Tj ETQq1 1 0.784314 rgBT /Overlock		21
32	Evidence for Geomagnetic Imprinting and Magnetic Navigation in the Natal Homing of Sea Turtles. Current Biology, 2015, 25, 392-396.	3.9	87
33	Magnetic navigation behavior and the oceanic ecology of young loggerhead sea turtles. Journal of Experimental Biology, 2015, 218, 1044-1050.	1.7	53
34	The geomagnetic environment in which sea turtle eggs incubate affects subsequent magnetic navigation behaviour of hatchlings. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141218.	2.6	31
35	An Inherited Magnetic Map Guides Ocean Navigation in Juvenile Pacific Salmon. Current Biology, 2014, 24, 446-450.	3.9	161
36	Blood Gases, Biochemistry, and Hematology of Galapagos Green Turtles (Chelonia Mydas). PLoS ONE, 2014, 9, e96487.	2.5	54

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37	Detection of coastal mud odors by loggerhead sea turtles: a possible mechanism for sensing nearby land. Marine Biology, 2013, 160, 2951-2956.	1.5	25
38	Evidence for Geomagnetic Imprinting as a Homing Mechanism in Pacific Salmon. Current Biology, 2013, 23, 312-316.	3.9	150
39	Perception of dimethyl sulfide (DMS) by loggerhead sea turtles: a possible mechanism for locating high-productivity oceanic regions for foraging. Journal of Experimental Biology, 2012, 215, 3535-3538.	1.7	40
40	Simulating transoceanic migrations of young loggerhead sea turtles: merging magnetic navigation behavior with an ocean circulation model. Journal of Experimental Biology, 2012, 215, 1863-1870.	1.7	101
41	The magnetic map of hatchling loggerhead sea turtles. Current Opinion in Neurobiology, 2012, 22, 336-342.	4.2	103
42	Orientation of hatchling loggerhead sea turtles to regional magnetic fields along a transoceanic migratory pathway. Journal of Experimental Biology, 2011, 214, 2504-2508.	1.7	45
43	Conservation of aTritoniaPedal peptides network in gastropods. Invertebrate Biology, 2011, 130, 313-324.	0.9	3
44	Longitude Perception and Bicoordinate Magnetic Maps in Sea Turtles. Current Biology, 2011, 21, 463-466.	3.9	155
45	Magnetic-field perception. Nature, 2010, 464, 1140-1142.	27.8	143
46	Is the Geographic Distribution of Nesting in the Kemp's Ridley Turtle Shaped by the Migratory Needs of Offspring?. Integrative and Comparative Biology, 2010, 50, 305-314.	2.0	47
47	Sea turtle nesting distributions and oceanographic constraints on hatchling migration. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3631-3637.	2.6	68
48	The sensory ecology of ocean navigation. Journal of Experimental Biology, 2008, 211, 1719-1728.	1.7	133
49	Geomagnetic imprinting: A unifying hypothesis of long-distance natal homing in salmon and sea turtles. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19096-19101.	7.1	190
50	Compatibility of magnetic imprinting and secular variation. Current Biology, 2008, 18, R596-R597.	3.9	41
51	Geomagnetic Navigation and Magnetic Maps in Sea Turtles. Navigation, Journal of the Institute of Navigation, 2008, 55, 115-125.	2.8	3
52	Magnetoreception in animals. Physics Today, 2008, 61, 29-35.	0.3	165
53	Sea Turtles: Navigating with Magnetism. Current Biology, 2007, 17, R102-R104.	3.9	19
54	Magnetic maps in animals: nature's GPS. Journal of Experimental Biology, 2007, 210, 3697-3705.	1.7	223

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55	Sea turtles, lobsters, and oceanic magnetic maps. Marine and Freshwater Behaviour and Physiology, 2006, 39, 49-64.	0.9	48
56	Sea turtles. Current Biology, 2006, 16, R784-R786.	3.9	4
57	The physics and neurobiology of magnetoreception. Nature Reviews Neuroscience, 2005, 6, 703-712.	10.2	331
58	Disruption of magnetic orientation in hatchling loggerhead sea turtles by pulsed magnetic fields. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2005, 191, 475-480.	1.6	49
59	Magnetic Orientation and Navigation in Marine Turtles, Lobsters, and Molluscs: Concepts and Conundrums. Integrative and Comparative Biology, 2005, 45, 539-546.	2.0	67
60	Identifiable neurons inhibited by Earth-strength magnetic stimuli in the mollusc Tritonia diomedea. Journal of Experimental Biology, 2004, 207, 1043-1049.	1.7	26
61	Geomagnetic map used in sea-turtle navigation. Nature, 2004, 428, 909-910.	27.8	267
62	Navigation and seasonal migratory orientation in juvenile sea turtles. Journal of Experimental Biology, 2004, 207, 1771-1778.	1.7	57
63	Site fidelity and homing behavior in juvenile loggerhead sea turtles (Caretta caretta). Marine Biology, 2003, 143, 211-220.	1.5	88
64	True navigation and magnetic maps in spiny lobsters. Nature, 2003, 421, 60-63.	27.8	323
65	Magnet-induced disorientation in hatchling loggerhead sea turtles. Journal of Experimental Biology, 2003, 206, 497-501.	1.7	28
66	Identification of magnetically responsive neurons in the marine molluscTritonia diomedea. Journal of Experimental Biology, 2003, 206, 381-388.	1.7	32
67	Use of multiple orientation cues by juvenile loggerhead sea turtles Caretta caretta. Journal of Experimental Biology, 2003, 206, 4317-4325.	1.7	60
68	Hatchling sea turtles use surface waves to establish a magnetic compass direction. Animal Behaviour, 1998, 55, 69-77.	1.9	31
69	Migratory Guidance Mechanisms in Marine Turtles. Journal of Avian Biology, 1998, 29, 585.	1.2	35
70	Sea Turtle Navigation and the Detection of Geomagnetic Field Features. Journal of Navigation, 1998, 51, 10-22.	1.7	5
71	Detection of magnetic field intensity by sea turtles. Nature, 1996, 380, 59-61.	27.8	205
72	Magnetic compass orientation. Nature, 1993, 362, 703-703.	27.8	7

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73	How Sea Turtles Navigate. Scientific American, 1992, 266, 100-106.	1.0	26
74	Orientation to Oceanic Waves by Green Turtle Hatchlings. Journal of Experimental Biology, 1992, 171, 1-13.	1.7	41
75	Orientation by hatchling loggerhead sea turtles Caretta caretta L. in a wave tank. Journal of Experimental Marine Biology and Ecology, 1990, 139, 43-50.	1.5	27
76	Magnetic Remanence in the Western Atlantic Spiny Lobster, Panulirus Argus. Journal of Experimental Biology, 1984, 113, 29-41.	1.7	36