

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	The physics and neurobiology of magnetoreception. <i>Nature Reviews Neuroscience</i> , 2005, 6, 703-712.	10.2	331
2	True navigation and magnetic maps in spiny lobsters. <i>Nature</i> , 2003, 421, 60-63.	27.8	323
3	Geomagnetic map used in sea-turtle navigation. <i>Nature</i> , 2004, 428, 909-910.	27.8	267
4	Magnetic maps in animals: nature's GPS. <i>Journal of Experimental Biology</i> , 2007, 210, 3697-3705.	1.7	223
5	Detection of magnetic field intensity by sea turtles. <i>Nature</i> , 1996, 380, 59-61.	27.8	205
6	Geomagnetic imprinting: A unifying hypothesis of long-distance natal homing in salmon and sea turtles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19096-19101.	7.1	190
7	Magnetoreception in animals. <i>Physics Today</i> , 2008, 61, 29-35.	0.3	165
8	An Inherited Magnetic Map Guides Ocean Navigation in Juvenile Pacific Salmon. <i>Current Biology</i> , 2014, 24, 446-450.	3.9	161
9	Longitude Perception and Bicoordinate Magnetic Maps in Sea Turtles. <i>Current Biology</i> , 2011, 21, 463-466.	3.9	155
10	Evidence for Geomagnetic Imprinting as a Homing Mechanism in Pacific Salmon. <i>Current Biology</i> , 2013, 23, 312-316.	3.9	150
11	Magnetic-field perception. <i>Nature</i> , 2010, 464, 1140-1142.	27.8	143
12	The sensory ecology of ocean navigation. <i>Journal of Experimental Biology</i> , 2008, 211, 1719-1728.	1.7	133
13	The magnetic map of hatchling loggerhead sea turtles. <i>Current Opinion in Neurobiology</i> , 2012, 22, 336-342.	4.2	103
14	Simulating transoceanic migrations of young loggerhead sea turtles: merging magnetic navigation behavior with an ocean circulation model. <i>Journal of Experimental Biology</i> , 2012, 215, 1863-1870.	1.7	101
15	A convolutional neural network for detecting sea turtles in drone imagery. <i>Methods in Ecology and Evolution</i> , 2019, 10, 345-355.	5.2	94
16	Site fidelity and homing behavior in juvenile loggerhead sea turtles (<i>Caretta caretta</i>). <i>Marine Biology</i> , 2003, 143, 211-220.	1.5	88
17	Evidence for Geomagnetic Imprinting and Magnetic Navigation in the Natal Homing of Sea Turtles. <i>Current Biology</i> , 2015, 25, 392-396.	3.9	87
18	Sea turtle nesting distributions and oceanographic constraints on hatchling migration. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3631-3637.	2.6	68

#	ARTICLE	IF	CITATIONS
19	Magnetic Orientation and Navigation in Marine Turtles, Lobsters, and Molluscs: Concepts and Conundrums. <i>Integrative and Comparative Biology</i> , 2005, 45, 539-546.	2.0	67
20	Use of multiple orientation cues by juvenile loggerhead sea turtles <i>Caretta caretta</i> . <i>Journal of Experimental Biology</i> , 2003, 206, 4317-4325.	1.7	60
21	Navigation and seasonal migratory orientation in juvenile sea turtles. <i>Journal of Experimental Biology</i> , 2004, 207, 1771-1778.	1.7	57
22	There and back again: natal homing by magnetic navigation in sea turtles and salmon. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	54
23	Blood Gases, Biochemistry, and Hematology of Galapagos Green Turtles (<i>Chelonia Mydas</i>). <i>PLoS ONE</i> , 2014, 9, e96487.	2.5	54
24	Magnetic navigation behavior and the oceanic ecology of young loggerhead sea turtles. <i>Journal of Experimental Biology</i> , 2015, 218, 1044-1050.	1.7	53
25	Odors from marine plastic debris elicit foraging behavior in sea turtles. <i>Current Biology</i> , 2020, 30, R213-R214.	3.9	51
26	Disruption of magnetic orientation in hatchling loggerhead sea turtles by pulsed magnetic fields. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2005, 191, 475-480.	1.6	49
27	Sea turtles, lobsters, and oceanic magnetic maps. <i>Marine and Freshwater Behaviour and Physiology</i> , 2006, 39, 49-64.	0.9	48
28	Is the Geographic Distribution of Nesting in the Kemp's Ridley Turtle Shaped by the Migratory Needs of Offspring?. <i>Integrative and Comparative Biology</i> , 2010, 50, 305-314.	2.0	47
29	Orientation of hatchling loggerhead sea turtles to regional magnetic fields along a transoceanic migratory pathway. <i>Journal of Experimental Biology</i> , 2011, 214, 2504-2508.	1.7	45
30	Quantifying Nearshore Sea Turtle Densities: Applications of Unmanned Aerial Systems for Population Assessments. <i>Scientific Reports</i> , 2017, 7, 17690.	3.3	43
31	Compatibility of magnetic imprinting and secular variation. <i>Current Biology</i> , 2008, 18, R596-R597.	3.9	41
32	Orientation to Oceanic Waves by Green Turtle Hatchlings. <i>Journal of Experimental Biology</i> , 1992, 171, 1-13.	1.7	41
33	Perception of dimethyl sulfide (DMS) by loggerhead sea turtles: a possible mechanism for locating high-productivity oceanic regions for foraging. <i>Journal of Experimental Biology</i> , 2012, 215, 3535-3538.	1.7	40
34	Evidence that Magnetic Navigation and Geomagnetic Imprinting Shape Spatial Genetic Variation in Sea Turtles. <i>Current Biology</i> , 2018, 28, 1325-1329.e2.	3.9	40
35	Multi-Modal Homing in Sea Turtles: Modeling Dual Use of Geomagnetic and Chemical Cues in Island-Finding. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 19.	2.0	39
36	Magnetic Remanence in the Western Atlantic Spiny Lobster, <i>Panulirus Argus</i> . <i>Journal of Experimental Biology</i> , 1984, 113, 29-41.	1.7	36

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37	Migratory Guidance Mechanisms in Marine Turtles. <i>Journal of Avian Biology</i> , 1998, 29, 585.	1.2	35
38	Identification of magnetically responsive neurons in the marine mollusc <i>Tritonia diomedea</i> . <i>Journal of Experimental Biology</i> , 2003, 206, 381-388.	1.7	32
39	Hatchling sea turtles use surface waves to establish a magnetic compass direction. <i>Animal Behaviour</i> , 1998, 55, 69-77.	1.9	31
40	The geomagnetic environment in which sea turtle eggs incubate affects subsequent magnetic navigation behaviour of hatchlings. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141218.	2.6	31
41	Magnet-induced disorientation in hatchling loggerhead sea turtles. <i>Journal of Experimental Biology</i> , 2003, 206, 497-501.	1.7	28
42	Orientation by hatchling loggerhead sea turtles <i>Caretta caretta</i> L. in a wave tank. <i>Journal of Experimental Marine Biology and Ecology</i> , 1990, 139, 43-50.	1.5	27
43	How Sea Turtles Navigate. <i>Scientific American</i> , 1992, 266, 100-106.	1.0	26
44	Identifiable neurons inhibited by Earth-strength magnetic stimuli in the mollusc <i>Tritonia diomedea</i> . <i>Journal of Experimental Biology</i> , 2004, 207, 1043-1049.	1.7	26
45	Detection of coastal mud odors by loggerhead sea turtles: a possible mechanism for sensing nearby land. <i>Marine Biology</i> , 2013, 160, 2951-2956.	1.5	25
46	Effect of magnetic pulses on Caribbean spiny lobsters: implications for magnetoreception. <i>Journal of Experimental Biology</i> , 2016, 219, 1827-32.	1.7	24
47	Blood gases, biochemistry and haematology of Galápagos hawksbill turtles (<i>Eretmochelys imbricata</i>). , 2017, 5, cox028.		22
48	Blood gases, biochemistry and haematology of Galápagos marine iguanas (<i>Amblyrhynchus</i>). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30</i>		21
49	Candidate genes mediating magnetoreception in rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Biology Letters</i> , 2017, 13, 20170142.	2.3	21
50	Animal navigation: a noisy magnetic sense?. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	20
51	Magnetic maps in animal navigation. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2022, 208, 41-67.	1.6	20
52	Sea Turtles: Navigating with Magnetism. <i>Current Biology</i> , 2007, 17, R102-R104.	3.9	19
53	A candidate magnetoreceptor. <i>Nature Materials</i> , 2016, 15, 136-138.	27.5	18
54	Geomagnetic field influences upward movement of young Chinook salmon emerging from nests. <i>Biology Letters</i> , 2018, 14, 20170752.	2.3	17

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55	Animal migration research takes wing. <i>Current Biology</i> , 2018, 28, R952-R955.	3.9	17
56	Magnetoreception in fishes: the effect of magnetic pulses on orientation of juvenile Pacific salmon. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	16
57	Behavioral evidence for geomagnetic imprinting and transgenerational inheritance in fruit flies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1216-1222.	7.1	14
58	Haematology and biochemistry of the San Cristóbal Lava Lizard (<i>Microlophus bivittatus</i>). , 2018, 6, coy046.		12
59	Magnetoreception and magnetic navigation in fishes: a half century of discovery. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2022, 208, 19-40.	1.6	11
60	Mass-nesting events in olive ridley sea turtles: environmental predictors of timing and size. <i>Animal Behaviour</i> , 2020, 163, 85-94.	1.9	9
61	Magnetic compass orientation. <i>Nature</i> , 1993, 362, 703-703.	27.8	7
62	Detection of magnetic field properties using distributed sensing: a computational neuroscience approach. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 036013.	2.9	7
63	Size-dependent avoidance of a strong magnetic anomaly in Caribbean spiny lobsters. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	7
64	Effective mydriasis in juvenile loggerhead turtles (<i>Caretta caretta</i>) following topical administration of rocuronium bromide and 10% phenylephrine. <i>Veterinary Ophthalmology</i> , 2020, 23, 37-43.	1.0	6
65	Long-distance transequatorial navigation using sequential measurements of magnetic inclination angle. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20200887.	3.4	6
66	Environmental sources of radio frequency noise: potential impacts on magnetoreception. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2022, 208, 83-95.	1.6	6
67	Sea Turtle Navigation and the Detection of Geomagnetic Field Features. <i>Journal of Navigation</i> , 1998, 51, 10-22.	1.7	5
68	Sea turtles. <i>Current Biology</i> , 2006, 16, R784-R786.	3.9	4
69	Near absence of differential gene expression in the retina of rainbow trout after exposure to a magnetic pulse: implications for magnetoreception. <i>Biology Letters</i> , 2018, 14, 20180209.	2.3	4
70	Pulse magnetization elicits differential gene expression in the central nervous system of the Caribbean spiny lobster, <i>Panulirus argus</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2020, 206, 725-742.	1.6	4
71	Geomagnetic Navigation and Magnetic Maps in Sea Turtles. <i>Navigation, Journal of the Institute of Navigation</i> , 2008, 55, 115-125.	2.8	3
72	Conservation of a <i>Tritonia</i> Pedal peptides network in gastropods. <i>Invertebrate Biology</i> , 2011, 130, 313-324.	0.9	3

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73	Magnetotactic bacteria: concepts, conundrums, and insights from a novel <i>in situ</i> approach using digital holographic microscopy (DHM). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2022, 208, 107-124.	1.6	2
74	Sea Turtles: A Case of Animal Magnetism. <i>Chance</i> , 2016, 29, 4-9.	0.2	1
75	Sea Turtles: Navigation and Orientation. , 2019, , 564-572.		1
76	LACTIC ACIDOSIS INDUCED BY MANUAL RESTRAINT FOR HEALTH EVALUATION AND COMPARISON OF TWO POINT-OF-CARE ANALYZERS IN HEALTHY LOGGERHEAD SEA TURTLES (<i>CARETTA CARETTA</i>). <i>Journal of Zoo and Wildlife Medicine</i> , 2021, 52, 1195-1204.	0.6	1