Martin Wikelski

List of Publications by Year
in descending order

150	12,497	34105 52	28297 105
papers	citations	h-index	g-index

160	160	160	12464
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Internet on animals: Wiâ€Fiâ€enabled devices provide a solution for big data transmission in biologging. Methods in Ecology and Evolution, 2023, 14, 87-102.	5.2	17
2	Ecological inference using data from accelerometers needs careful protocols. Methods in Ecology and Evolution, 2022, 13, 813-825.	5.2	10
3	Perspectives in machine learning for wildlife conservation. Nature Communications, 2022, 13, 792.	12.8	176
4	Biological Earth observation with animal sensors. Trends in Ecology and Evolution, 2022, 37, 293-298.	8.7	49
5	The Movebank system for studying global animal movement and demography. Methods in Ecology and Evolution, 2022, 13, 419-431.	5.2	58
6	Factors influencing wind turbine avoidance behaviour of a migrating soaring bird. Scientific Reports, 2022, 12, 6441.	3.3	5
7	Fruit bat migration matches green wave in seasonal landscapes. Functional Ecology, 2022, 36, 2043-2055.	3.6	7
8	MoveApps: a serverless no-code analysis platform for animal tracking data. Movement Ecology, 2022, 10, .	2.8	7
9	MultiSegVA: Using Visual Analytics to Segment Biologging Time Series on Multiple Scales. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1623-1633.	4.4	5
10	Response to ZÃ¶ller et al.'s critique on â€œPotential shortâ€term earthquake forecasting by farmâ€animal monitoringâ€. Ethology, 2021, 127, 307-308.	1.1	0
11	Movement ecology. , 2021, , 261-279.		5
12	Estimating nestâ€switching in freeâ€ranging wild birds: an assessment of the most common methodologies, illustrated in the White Stork (Ciconia ciconia). Ibis, 2021, 163, 1110-1119.	1.9	2
13	Wing tags severely impair movement in African Cape Vultures. Animal Biotelemetry, 2021, 9, .	1.9	4
14	Longer days enable higher diurnal activity for migratory birds. Journal of Animal Ecology, 2021, 90, 2161-2171.	2.8	16
15	Fine-scale changes in speed and altitude suggest protean movements in homing pigeon flights. Royal Society Open Science, 2021, 8, 210130.	2.4	8
16	Use of avian GPS tracking to mitigate human fatalities from bird strikes caused by large soaring birds. Journal of Applied Ecology, 2021, 58, 1411-1420.	4.0	11
17	Smell of green leaf volatiles attracts white storks to freshly cut meadows. Scientific Reports, 2021, 11, 12912.	3.3	7
18	Individual environmental niches in mobile organisms. Nature Communications, 2021, 12, 4572.	12.8	26

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19	The interplay of wind and uplift facilitates over-water flight in facultative soaring birds. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211603.	2.6	25
20	Early-life behaviour predicts first-year survival in a long-distance avian migrant. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202670.	2.6	16
21	Black kites of different age and sex show similar avoidance responses to wind turbines during migration. Royal Society Open Science, 2021, 8, 201933.	2.4	8
22	Wind turbines cause functional habitat loss for migratory soaring birds. Journal of Animal Ecology, 2020, 89, 93-103.	2.8	72
23	Diurnal timing of nonmigratory movement by birds: the importance of foraging spatial scales. Journal of Avian Biology, 2020, 51, .	1.2	1
24	Identifying volatile organic compounds used for olfactory navigation by homing pigeons. Scientific Reports, 2020, 10, 15879.	3.3	10
25	Seasonal niche tracking of climate emerges at the population level in a migratory bird. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201799.	2.6	11
26	Overland and oversea migration of white storks through the water barriers of the straits of Gibraltar. Scientific Reports, 2020, 10, 20760.	3.3	3
27	Ecological insights from three decades of animal movement tracking across a changing Arctic. Science, 2020, 370, 712-715.	12.6	75
28	COVID-19 lockdown allows researchers to quantify the effects of human activity on wildlife. Nature Ecology and Evolution, 2020, 4, 1156-1159.	7.8	413
29	Foraging movements are density-independent among straw-coloured fruit bats. Royal Society Open Science, 2020, 7, 200274.	2.4	10
30	The gateway to Africa: What determines sea crossing performance of a migratory soaring bird at the Strait of Gibraltar?. Journal of Animal Ecology, 2020, 89, 1317-1328.	2.8	31
31	Potential shortâ€term earthquake forecasting by farm animal monitoring. Ethology, 2020, 126, 931-941.	1.1	21
32	Bornâ€digital biodiversity data: Millions and billions. Diversity and Distributions, 2020, 26, 644-648.	4.1	68
33	Causes and consequences of facultative sea crossing in a soaring migrant. Functional Ecology, 2020, 34, 840-852.	3.6	20
34	Daily energy expenditure in white storks is lower after fledging than in the nest. Journal of Experimental Biology, 2020, 223, .	1.7	3
35	Title is missing!. , 2020, 15, e0242662.		0
36	Title is missing!. , 2020, 15, e0242662.		0

#	Article	IF	Citations
37	Title is missing!. , 2020, 15, e0242662.		0
38	Title is missing!. , 2020, 15, e0242662.		0
39	Title is missing!. , 2020, 15, e0242662.		0
40	Title is missing!. , 2020, 15, e0242662.		0
41	â€œCloserâ€toâ€homeâ€•strategy benefits juvenile survival in a longâ€distance migratory bird. Ecology and Evolution, 2019, 9, 8945-8952.	1.9	50
42	Large birds travel farther in homogeneous environments. Global Ecology and Biogeography, 2019, 28, 576-587.	5.8	39
43	Risk of biodiversity collapse under climate change in the Afro-Arabian region. Scientific Reports, 2019, 9, 955.	3.3	25
44	Overall Dynamic Body Acceleration in Straw-Colored Fruit Bats Increases in Headwinds but Not With Airspeed. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	12
45	Family size dynamics in wintering geese. Journal of Ornithology, 2019, 160, 363-375.	1.1	6
46	Common noctules exploit low levels of the aerosphere. Royal Society Open Science, 2019, 6, 181942.	2.4	27
47	Static landscape features predict uplift locations for soaring birds across Europe. Royal Society Open Science, 2019, 6, 181440.	2.4	33
48	Fly with the flock: immersive solutions for animal movement visualization and analytics. Journal of the Royal Society Interface, 2019, 16, 20180794.	3.4	18
49	Linking colony size with quantitative estimates of ecosystem services of African fruit bats. Current Biology, 2019, 29, R237-R238.	3.9	31
50	The oceanâ€™s movescape: fisheries management in the bio-logging decade (2018â€“2028). ICES Journal of Marine Science, 2019, 76, 477-488.	2.5	58
51	Layered patterns in nature, medicine, and materials: quantifying anisotropic structures and cyclicity. PeerJ, 2019, 7, e7813.	2.0	2
52	Cognitive skills of common shrews (Sorex araneus) vary with seasonal changes in skull size and brain mass. Journal of Experimental Biology, 2018, 221, .	1.7	15
53	Moving in the Anthropocene: Global reductions in terrestrial mammalian movements. Science, 2018, 359, 466-469.	12.6	783
54	Synchronization, coordination and collective sensing during thermalling flight of freely migrating white storks. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170011.	4.0	38

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55	Effects of El NiÃ±o and La NiÃ±a Southern Oscillation events on the adrenocortical responses to stress in birds of the Galapagos Islands. General and Comparative Endocrinology, 2018, 259, 20-33.	1.8	15
56	Habitat suitability does not capture the essence of animal-defined corridors. Movement Ecology, 2018, 6, 18.	2.8	28
57	From local collective behavior to global migratory patterns in white storks. Science, 2018, 360, 911-914.	12.6	123
58	Only natural local odours allow homeward orientation in homing pigeons released at unfamiliar sites. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 761-771.	1.6	12
59	Home Range Size and Resource Use of Breeding and Non-breeding White Storks Along a Land Use Gradient. Frontiers in Ecology and Evolution, 2018, 6, .	2.2	28
60	Integrating animal movement with habitat suitability for estimating dynamic migratory connectivity. Landscape Ecology, 2018, 33, 879-893.	4.2	15
61	Corticosterone implants make stress hyporesponsive birds. Journal of Experimental Biology, 2018, 221, .	1.7	14
62	Early arrival at breeding grounds: Causes, costs and a tradeâ€•off with overwintering latitude. Journal of Animal Ecology, 2018, 87, 1627-1638.	2.8	49
63	Profound seasonal shrinking and regrowth of the ossified braincase in phylogenetically distant mammals with similar life histories. Scientific Reports, 2017, 7, 42443.	3.3	24
64	Wintering in Europe instead of Africa enhances juvenile survival in a long-distance migrant. Animal Behaviour, 2017, 126, 79-88.	1.9	61
65	Animal tracking meets migration genomics: transcriptomic analysis of a partially migratory bird species. Molecular Ecology, 2017, 26, 3204-3216.	3.9	48
66	Resource tracking within and across continents in long-distance bird migrants. Science Advances, 2017, 3, e1601360.	10.3	199
67	Profound reversible seasonal changes of individual skull size in a mammal. Current Biology, 2017, 27, R1106-R1107.	3.9	35
68	Growth overshoot and seasonal size changes in the skulls of two weasel species. Royal Society Open Science, 2017, 4, 160947.	2.4	17
69	Match between soaring modes of black kites and the fine-scale distribution of updrafts. Scientific Reports, 2017, 7, 6421.	3.3	16
70	Animal movement in the absence of predation: environmental drivers of movement strategies in a partial migration system. Oikos, 2017, 126, 1004-1019.	2.7	31
71	Flexibility of habitat use in novel environments: insights from a translocation experiment with lesser black-backed gulls. Royal Society Open Science, 2017, 4, 160164.	2.4	14
72	Heart rate reveals torpor at high body temperatures in lowland tropical free-tailed bats. Royal Society Open Science, 2017, 4, 171359.	2.4	26

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73	Cyclic bouts of extreme bradycardia counteract the high metabolism of frugivorous bats. ELife, 2017, 6, .	6.0	44
74	How Displaced Migratory Birds Could Use Volatile Atmospheric Compounds to Find Their Migratory Corridor: A Test Using a Particle Dispersion Model. Frontiers in Behavioral Neuroscience, 2016, 10, 175.	2.0	14
75	Acceleration Data Reveal Highly Individually Structured Energetic Landscapes in Free-Ranging Fishers (Pekania pennanti). PLoS ONE, 2016, 11, e0145732.	2.5	13
76	Towards a new understanding of migration timing: slower spring than autumn migration in geese reflects different decision rules for stopover use and departure. Oikos, 2016, 125, 1496-1507.	2.7	102
77	Behavioural adaptations to flight into thin air. Biology Letters, 2016, 12, 20160432.	2.3	26
78	Long-distance seed dispersal by straw-coloured fruit bats varies by season and landscape. Global Ecology and Conservation, 2016, 7, 12-24.	2.1	62
79	Living sentinels for climate change effects. Science, 2016, 352, 775-776.	12.6	31
80	Evidence that birds sleep in mid-flight. Nature Communications, 2016, 7, 12468.	12.8	235
81	Does influenza A virus infection affect movement behaviour during stopover in its wild reservoir host?. Royal Society Open Science, 2016, 3, 150633.	2.4	33
82	Wind estimation based on thermal soaring of birds. Ecology and Evolution, 2016, 6, 8706-8718.	1.9	33
83	Pigeon navigation: exposure to environmental odours prior release is sufficient for homeward orientation, but not for homing. Journal of Experimental Biology, 2016, 219, 2475-80.	1.7	14
84	The challenges of the first migration: movement and behaviour of juvenile vs. adult white storks with insights regarding juvenile mortality. Journal of Animal Ecology, 2016, 85, 938-947.	2.8	144
85	Costs of migratory decisions: A comparison across eight white stork populations. Science Advances, 2016, 2, e1500931.	10.3	151
86	Determination of the wingsnap sonation mechanism of the Golden-collared manakin (<i>Manacus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.7	16
87	Conservation physiology of animal migration. , 2016, 4, cov072.		82
88	Key Questions in Marine Megafauna Movement Ecology. Trends in Ecology and Evolution, 2016, 31, 463-475.	8.7	397
89	Natural selection against a circadian clock gene mutation in mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 686-691.	7.1	123
90	Collective Decision-Making in Homing Pigeons: Larger Flocks Take Longer to Decide but Do Not Make Better Decisions. PLoS ONE, 2016, 11, e0147497.	2.5	5

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91	Olfaction and topography, but not magnetic cues, control navigation in a pelagic seabird: displacements with shearwaters in the Mediterranean Sea. Scientific Reports, 2015, 5, 16486.	3.3	57
92	Personality and morphological traits affect pigeon survival from raptor attacks. Scientific Reports, 2015, 5, 15490.	3.3	32
93	Flexible navigation response in common cuckoos Cuculus canorus displaced experimentally during migration. Scientific Reports, 2015, 5, 16402.	3.3	32
94	True navigation in migrating gulls requires intact olfactory nerves. Scientific Reports, 2015, 5, 17061.	3.3	59
95	High-resolution GPS tracking of Lyle's flying fox between temples and orchards in central Thailand. Journal of Wildlife Management, 2015, 79, 957-968.	1.8	38
96	Costs of sleeping in: circadian rhythms influence cuckoldry risk in a songbird. Functional Ecology, 2015, 29, 1300-1307.	3.6	40
97	Pronounced Seasonal Changes in the Movement Ecology of a Highly Gregarious Central-Place Forager, the African Straw-Coloured Fruit Bat (Eidolon helvum). PLoS ONE, 2015, 10, e0138985.	2.5	56
98	Terrestrial animal tracking as an eye on life and planet. Science, 2015, 348, aaa2478.	12.6	1,067
99	Individualâ€based modelling of resource competition to predict densityâ€dependent population dynamics: a case study with white storks. Oikos, 2015, 124, 319-330.	2.7	23
100	Narrow-Front Loop Migration in a Population of the Common Cuckoo Cuculus canorus, as Revealed by Satellite Telemetry. PLoS ONE, 2014, 9, e83515.	2.5	85
101	Movements, Home-Range Size and Habitat Selection of Mallards during Autumn Migration. PLoS ONE, 2014, 9, e100764.	2.5	52
102	Temporal and Contextual Consistency of Leadership in Homing Pigeon Flocks. PLoS ONE, 2014, 9, e102771.	2.5	20
103	Tracking Post-Hibernation Behavior and Early Migration Does Not Reveal the Expected Sex-Differences in a â€œFemale-Migratingâ€•Bat. PLoS ONE, 2014, 9, e114810.	2.5	35
104	Spatial and Temporal Patterns of Frugivorous Hornbill Movements in Central Africa and their Implications for Rain Forest Conservation. Biotropica, 2014, 46, 763-770.	1.6	10
105	Commuting fruit bats beneficially modulate their flight in relation to wind. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140018.	2.6	47
106	50Âyears of bat tracking: device attachment and future directions. Methods in Ecology and Evolution, 2014, 5, 311-319.	5.2	89
107	Environmental drivers of variability in the movement ecology of turkey vultures (<i>Cathartes) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Sciences, 2014, 369, 20130195.	4.0	122
108	Automated image-based tracking and its application in ecology. Trends in Ecology and Evolution, 2014, 29, 417-428.	8.7	407

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109	Ecology and Neurophysiology of Sleep in Two Wild Sloth Species. Sleep, 2014, 37, 753-761.	1.1	51
110	Oceanic navigation in Cory's shearwaters: evidence for a crucial role of olfactory cues for homing after displacement. Journal of Experimental Biology, 2013, 216, 2798-2805.	1.7	113
111	The environmental-data automated track annotation (Env-DATA) system: linking animal tracks with environmental data. Movement Ecology, 2013, 1, 3.	2.8	250
112	Flying with the wind: scale dependency of speed and direction measurements in modelling wind support in avian flight. Movement Ecology, 2013, 1, 4.	2.8	111
113	Observing the unwatchable through acceleration logging of animal behavior. Animal Biotelemetry, 2013, 1, 20.	1.9	386
114	New tracking philosophy for birds. Frontiers in Ecology and the Environment, 2013, 11, 10-12.	4.0	15
115	Accelerometerâ€informed GPS telemetry: Reducing the tradeâ€off between resolution and longevity. Wildlife Society Bulletin, 2012, 36, 139-146.	1.6	92
116	Orientation of vagrant birds on the Faroe Islands in the Atlantic Ocean. Journal of Ornithology, 2012, 153, 1261-1265.	1.1	11
117	Moderating <scp>A</scp>rgos location errors in animal tracking data. Methods in Ecology and Evolution, 2012, 3, 999-1007.	5.2	246
118	Using tri-axial acceleration data to identify behavioral modes of free-ranging animals: general concepts and tools illustrated for griffon vultures. Journal of Experimental Biology, 2012, 215, 986-996.	1.7	359
119	Tracking migratory songbirds: accuracy of lightâ€level loggers (geolocators) in forest habitats. Methods in Ecology and Evolution, 2012, 3, 47-52.	5.2	105
120	Homing Pigeons Only Navigate in Air with Intact Environmental Odours: A Test of the Olfactory Activation Hypothesis with GPS Data Loggers. PLoS ONE, 2011, 6, e22385.	2.5	50
121	Olfactory lateralization in homing pigeons: a GPS study on birds released with unilateral olfactory inputs. Journal of Experimental Biology, 2011, 214, 593-598.	1.7	36
122	Migration by soaring or flapping: numerical atmospheric simulations reveal that turbulence kinetic energy dictates bee-eater flight mode. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3380-3386.	2.6	50
123	Seed-dispersal distributions by trumpeter hornbills in fragmented landscapes. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2257-2264.	2.6	93
124	The trans-Himalayan flights of bar-headed geese (Anser indicus). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9516-9519.	7.1	135
125	Radiotelemetry reveals variation in fever and sickness behaviours with latitude in a freeâ€living passerine. Functional Ecology, 2010, 24, 813-823.	3.6	63
126	Large-Range Movements of Neotropical Orchid Bees Observed via Radio Telemetry. PLoS ONE, 2010, 5, e10738.	2.5	123

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127	Flight Modes in Migrating European Bee-Eaters: Heart Rate May Indicate Low Metabolic Rate during Soaring and Gliding. PLoS ONE, 2010, 5, e13956.	2.5	77
128	Nocturnal activity by the primarily diurnal Central American agouti (Dasyprocta punctata) in relation to environmental conditions, resource abundance and predation risk. Journal of Tropical Ecology, 2009, 25, 211-215.	1.1	31
129	Avian circannual clocks: adaptive significance and possible involvement of energy turnover in their proximate control. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 411-423.	4.0	82
130	Going, Going, Gone: Is Animal Migration Disappearing. PLoS Biology, 2008, 6, e188.	5.6	514
131	Going wild: what a global small-animal tracking system could do for experimental biologists. Journal of Experimental Biology, 2007, 210, 181-186.	1.7	257
132	Simple rules guide dragonfly migration. Biology Letters, 2006, 2, 325-329.	2.3	222
133	Conservation physiology. Trends in Ecology and Evolution, 2006, 21, 38-46.	8.7	667
134	Do night-active birds lack daily melatonin rhythms? A case study comparing a diurnal and a nocturnal-foraging gull species. Journal Fur Ornithologie, 2006, 147, 107-111.	1.2	11
135	Long-distance biological transport processes through the air: can nature's complexity be unfolded in silico?. Diversity and Distributions, 2005, 11, 131-137.	4.1	98
136	Evolution of body size in Galapagos marine iguanas. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1985-1993.	2.6	52
137	ANTBIRDS PARASITIZE FORAGING ARMY ANTS. Ecology, 2005, 86, 555-559.	3.2	46
138	IMMUNE ACTIVITY IN TEMPERATE AND TROPICAL HOUSE SPARROWS: A COMMON-GARDEN EXPERIMENT. Ecology, 2004, 85, 2323-2331.	3.2	107
139	Costs of migration in free-flying songbirds. Nature, 2003, 423, 704-704.	27.8	386
140	REPRODUCTIVE SEASONALITY OF SEVEN NEOTROPICAL PASSERINE SPECIES. Condor, 2003, 105, 683.	1.6	77
141	Slow pace of life in tropical sedentary birds: a common-garden experiment on four stonechat populations from different latitudes. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 2383-2388.	2.6	235
142	Body Size, Performance and Fitness in Galapagos Marine Iguanas. Integrative and Comparative Biology, 2003, 43, 376-386.	2.0	69
143	SEASONAL CHANGES IN FOOD QUALITY: A PROXIMATE CUE FOR REPRODUCTIVE TIMING IN MARINE IGUANAS. Ecology, 2003, 84, 3013-3023.	3.2	49
144	Vocal Distinctiveness and Response to Conspecific Playback in the Spotted Antbird, a Neotropical Suboscine. Condor, 2002, 104, 387-394.	1.6	67

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145	Territory establishment in lekking marine iguanas, Amblyrhynchus cristatus: support for the hotshot mechanism. Behavioral Ecology and Sociobiology, 2002, 51, 579-587.	1.4	33
146	Marine iguanas die from trace oil pollution. Nature, 2002, 417, 607-608.	27.8	87
147	The relationship between heart rate and rate of oxygen consumption in Galapagos marine iguanas (Amblyrhynchus cristatus)at two different temperatures. Journal of Experimental Biology, 2002, 205, 1917-1924.	1.7	37
148	Why is Female Choice not Unanimous? Insights from Costly Mate Sampling in Marine Iguanas. Ethology, 2001, 107, 623-638.	1.1	60
149	Marine Iguanas Oiled in the GalÃ¡pagos. Science, 2001, 292, 437-438.	12.6	46
150	Arctic Migratory Raptor Selects Nesting Area During the Previous Breeding Season. Frontiers in Ecology and Evolution, 0, 10, .	2.2	2