## Martin Wikelski

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7080661/publications.pdf

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150	12,497	52 h-index	105
papers	citations		g-index
160	160	160	12464
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Terrestrial animal tracking as an eye on life and planet. Science, 2015, 348, aaa2478.	12.6	1,067
2	Moving in the Anthropocene: Global reductions in terrestrial mammalian movements. Science, 2018, 359, 466-469.	12.6	783
3	Conservation physiology. Trends in Ecology and Evolution, 2006, 21, 38-46.	8.7	667
4	Going, Going, Gone: Is Animal Migration Disappearing. PLoS Biology, 2008, 6, e188.	5.6	514
5	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
6	Automated image-based tracking and its application in ecology. Trends in Ecology and Evolution, 2014, 29, 417-428.	8.7	407
7	Key Questions in Marine Megafauna Movement Ecology. Trends in Ecology and Evolution, 2016, 31, 463-475.	8.7	397
8	Costs of migration in free-flying songbirds. Nature, 2003, 423, 704-704.	27.8	386
9	Observing the unwatchable through acceleration logging of animal behavior. Animal Biotelemetry, 2013, 1, 20.	1.9	386
10	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
11	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
12	The environmental-data automated track annotation (Env-DATA) system: linking animal tracks with environmental data. Movement Ecology, $2013,1,3.$	2.8	250
13	Moderating <scp>A</scp> rgos location errors in animal tracking data. Methods in Ecology and Evolution, 2012, 3, 999-1007.	5.2	246
14	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
15	Evidence that birds sleep in mid-flight. Nature Communications, 2016, 7, 12468.	12.8	235
16	Simple rules guide dragonfly migration. Biology Letters, 2006, 2, 325-329.	2.3	222
17	Resource tracking within and across continents in long-distance bird migrants. Science Advances, 2017, 3, e1601360.	10.3	199
18	Perspectives in machine learning for wildlife conservation. Nature Communications, 2022, 13, 792.	12.8	176

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19	Costs of migratory decisions: A comparison across eight white stork populations. Science Advances, 2016, 2, e1500931.	10.3	151
20	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
21	The trans-Himalayan flights of bar-headed geese ( <i>Anser indicus</i> ). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9516-9519.	7.1	135
22	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
23	From local collective behavior to global migratory patterns in white storks. Science, 2018, 360, 911-914.	12.6	123
24	Large-Range Movements of Neotropical Orchid Bees Observed via Radio Telemetry. PLoS ONE, 2010, 5, e10738.	2.5	123
25	Environmental drivers of variability in the movement ecology of turkey vultures ( <i>Cathartes) Tj ETQq1 1 0.784 Sciences, 2014, 369, 20130195.</i>	314 rgBT 4.0	Overlock 10 122
26	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
27	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
28	IMMUNE ACTIVITY IN TEMPERATE AND TROPICAL HOUSE SPARROWS: A COMMON-GARDEN EXPERIMENT. Ecology, 2004, 85, 2323-2331.	3.2	107
29	Tracking migratory songbirds: accuracy of lightâ€level loggers (geolocators) in forest habitats. Methods in Ecology and Evolution, 2012, 3, 47-52.	5.2	105
30	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
31	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
32	Seed-dispersal distributions by trumpeter hornbills in fragmented landscapes. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2257-2264.	2.6	93
33	Accelerometerâ€informed GPS telemetry: Reducing the tradeâ€off between resolution and longevity. Wildlife Society Bulletin, 2012, 36, 139-146.	1.6	92
34	50Âyears of bat tracking: device attachment and future directions. Methods in Ecology and Evolution, 2014, 5, 311-319.	5.2	89
35	Marine iguanas die from trace oil pollution. Nature, 2002, 417, 607-608.	27.8	87
36	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

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37	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
38	Conservation physiology of animal migration. , 2016, 4, cov072.		82
39	REPRODUCTIVE SEASONALITY OF SEVEN NEOTROPICAL PASSERINE SPECIES. Condor, 2003, 105, 683.	1.6	77
40	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
41	Ecological insights from three decades of animal movement tracking across a changing Arctic. Science, 2020, 370, 712-715.	12.6	75
42	Wind turbines cause functional habitat loss for migratory soaring birds. Journal of Animal Ecology, 2020, 89, 93-103.	2.8	72
43	Body Size, Performance and Fitness in Galapagos Marine Iguanas. Integrative and Comparative Biology, 2003, 43, 376-386.	2.0	69
44	Bornâ€digital biodiversity data: Millions and billions. Diversity and Distributions, 2020, 26, 644-648.	4.1	68
45	Vocal Distinctiveness and Response to Conspecific Playback in the Spotted Antbird, a Neotropical Suboscine. Condor, 2002, 104, 387-394.	1.6	67
46	Radiotelemetry reveals variation in fever and sickness behaviours with latitude in a freeâ€living passerine. Functional Ecology, 2010, 24, 813-823.	3.6	63
47	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
48	Wintering in Europe instead of Africa enhances juvenile survival in a long-distance migrant. Animal Behaviour, 2017, 126, 79-88.	1.9	61
49	Why is Female Choice not Unanimous? Insights from Costly Mate Sampling in Marine Iguanas. Ethology, 2001, 107, 623-638.	1.1	60
50	True navigation in migrating gulls requires intact olfactory nerves. Scientific Reports, 2015, 5, 17061.	3.3	59
51	The ocean's movescape: fisheries management in the bio-logging decade (2018–2028). ICES Journal of Marine Science, 2019, 76, 477-488.	2.5	58
52	The Movebank system for studying global animal movement and demography. Methods in Ecology and Evolution, 2022, 13, 419-431.	5.2	58
53	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
54	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

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55	Evolution of body size in Galapagos marine iguanas. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 1985-1993.	2.6	52
56	Movements, Home-Range Size and Habitat Selection of Mallards during Autumn Migration. PLoS ONE, 2014, 9, e100764.	2.5	52
57	Ecology and Neurophysiology of Sleep in Two Wild Sloth Species. Sleep, 2014, 37, 753-761.	1.1	51
58	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
59	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
60	"Closerâ€toâ€home†strategy benefits juvenile survival in a longâ€distance migratory bird. Ecology and Evolution, 2019, 9, 8945-8952.	1.9	50
61	SEASONAL CHANGES IN FOOD QUALITY: A PROXIMATE CUE FOR REPRODUCTIVE TIMING IN MARINE IGUANAS. Ecology, 2003, 84, 3013-3023.	3.2	49
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	Biological Earth observation with animal sensors. Trends in Ecology and Evolution, 2022, 37, 293-298.	8.7	49
64	Animal tracking meets migration genomics: transcriptomic analysis of a partially migratory bird species. Molecular Ecology, 2017, 26, 3204-3216.	3.9	48
65	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
66	ANTBIRDS PARASITIZE FORAGING ARMY ANTS. Ecology, 2005, 86, 555-559.	3.2	46
67	Marine Iguanas Oiled in the Galápagos. Science, 2001, 292, 437-438.	12.6	46
68	Cyclic bouts of extreme bradycardia counteract the high metabolism of frugivorous bats. ELife, 2017, 6, .	6.0	44
69	Costs of sleeping in: circadian rhythms influence cuckoldry risk in a songbird. Functional Ecology, 2015, 29, 1300-1307.	3.6	40
70	Large birds travel farther in homogeneous environments. Global Ecology and Biogeography, 2019, 28, 576-587.	5.8	39
71	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
72	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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73	The relationship between heart rate and rate of oxygen consumption in Galapagos marine iguanas ( <i>Amblyrhynchus cristatus)</i> at two different temperatures. Journal of Experimental Biology, 2002, 205, 1917-1924.	1.7	37
74	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
75	Tracking Post-Hibernation Behavior and Early Migration Does Not Reveal the Expected Sex-Differences in a "Female-Migrating―Bat. PLoS ONE, 2014, 9, e114810.	2.5	35
76	Profound reversible seasonal changes of individual skull size in a mammal. Current Biology, 2017, 27, R1106-R1107.	3.9	35
77	Territory establishment in lekking marine iguanas, Amblyrhynchus cristatus: support for the hotshot mechanism. Behavioral Ecology and Sociobiology, 2002, 51, 579-587.	1.4	33
78	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
79	Wind estimation based on thermal soaring of birds. Ecology and Evolution, 2016, 6, 8706-8718.	1.9	33
80	Static landscape features predict uplift locations for soaring birds across Europe. Royal Society Open Science, 2019, 6, 181440.	2.4	33
81	Personality and morphological traits affect pigeon survival from raptor attacks. Scientific Reports, 2015, 5, 15490.	3.3	32
82	Flexible navigation response in common cuckoos Cuculus canorus displaced experimentally during migration. Scientific Reports, 2015, 5, 16402.	3.3	32
83	Nocturnal activity by the primarily diurnal Central American agouti ( <i>Dasyprocta punctata</i> ) in relation to environmental conditions, resource abundance and predation risk. Journal of Tropical Ecology, 2009, 25, 211-215.	1.1	31
84	Living sentinels for climate change effects. Science, 2016, 352, 775-776.	12.6	31
85	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
86	Linking colony size with quantitative estimates of ecosystem services of African fruit bats. Current Biology, 2019, 29, R237-R238.	3.9	31
87	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
88	Habitat suitability does not capture the essence of animal-defined corridors. Movement Ecology, 2018, 6, 18.	2.8	28
89	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
90	Common noctules exploit low levels of the aerosphere. Royal Society Open Science, 2019, 6, 181942.	2.4	27

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91	Behavioural adaptations to flight into thin air. Biology Letters, 2016, 12, 20160432.	2.3	26
92	Heart rate reveals torpor at high body temperatures in lowland tropical free-tailed bats. Royal Society Open Science, 2017, 4, 171359.	2.4	26
93	Individual environmental niches in mobile organisms. Nature Communications, 2021, 12, 4572.	12.8	26
94	Risk of biodiversity collapse under climate change in the Afro-Arabian region. Scientific Reports, 2019, 9, 955.	3.3	25
95	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
96	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
97	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
98	Potential shortâ€ŧerm earthquake forecasting by farm animal monitoring. Ethology, 2020, 126, 931-941.	1.1	21
99	Temporal and Contextual Consistency of Leadership in Homing Pigeon Flocks. PLoS ONE, 2014, 9, e102771.	2.5	20
100	Causes and consequences of facultative sea crossing in a soaring migrant. Functional Ecology, 2020, 34, 840-852.	3.6	20
101	Fly with the flock: immersive solutions for animal movement visualization and analytics. Journal of the Royal Society Interface, 2019, 16, 20180794.	3.4	18
102	Growth overshoot and seasonal size changes in the skulls of two weasel species. Royal Society Open Science, 2017, 4, 160947.	2.4	17
103	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.	<b>5.</b> 2	17
104	Determination of the wingsnap sonation mechanism of the Golden-collared manakin ( <i>) Manacus) Tj ETQq0 0 0</i>	rgBT /Ove	erlock 10 Tf 50
105	Match between soaring modes of black kites and the fine-scale distribution of updrafts. Scientific Reports, 2017, 7, 6421.	3.3	16
106	Longer days enable higher diurnal activity for migratory birds. Journal of Animal Ecology, 2021, 90, 2161-2171.	2.8	16
107	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
108	New tracking philosophy for birds. Frontiers in Ecology and the Environment, 2013, 11, 10-12.	4.0	15

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109	Cognitive skills of common shrews ( $\langle i \rangle$ Sorex araneus $\langle i \rangle$ ) vary with seasonal changes in skull size and brain mass. Journal of Experimental Biology, 2018, 221, .	1.7	15
110	Effects of El Niñ0 and La Niña 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
111	Integrating animal movement with habitat suitability for estimating dynamic migratory connectivity. Landscape Ecology, 2018, 33, 879-893.	4.2	15
112	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
113	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
114	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
115	Corticosterone implants make stress hyporesponsive birds. Journal of Experimental Biology, 2018, 221,	1.7	14
116	Acceleration Data Reveal Highly Individually Structured Energetic Landscapes in Free-Ranging Fishers (Pekania pennanti). PLoS ONE, 2016, 11, e0145732.	2.5	13
117	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
118	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
119	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
120	Orientation of vagrant birds on the Faroe Islands in the Atlantic Ocean. Journal of Ornithology, 2012, 153, 1261-1265.	1.1	11
121	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
122	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
123	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
124	Identifying volatile organic compounds used for olfactory navigation by homing pigeons. Scientific Reports, 2020, 10, 15879.	3.3	10
125	Foraging movements are density-independent among straw-coloured fruit bats. Royal Society Open Science, 2020, 7, 200274.	2.4	10
126	Ecological inference using data from accelerometers needs careful protocols. Methods in Ecology and Evolution, 2022, 13, 813-825.	5.2	10

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127	Fine-scale changes in speed and altitude suggest protean movements in homing pigeon flights. Royal Society Open Science, 2021, 8, 210130.	2.4	8
128	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
129	Smell of green leaf volatiles attracts white storks to freshly cut meadows. Scientific Reports, 2021, 11, 12912.	3.3	7
130	Fruit bat migration matches green wave in seasonal landscapes. Functional Ecology, 2022, 36, 2043-2055.	3.6	7
131	MoveApps: a serverless no-code analysis platform for animal tracking data. Movement Ecology, 2022, 10, .	2.8	7
132	Family size dynamics in wintering geese. Journal of Ornithology, 2019, 160, 363-375.	1.1	6
133	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
134	Movement ecology. , 2021, , 261-279.		5
135	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
136	Factors influencing wind turbine avoidance behaviour of a migrating soaring bird. Scientific Reports, 2022, 12, 6441.	3.3	5
137	Wing tags severely impair movement in African Cape Vultures. Animal Biotelemetry, 2021, 9, .	1.9	4
138	Overland and oversea migration of white storks through the water barriers of the straits of Gibraltar. Scientific Reports, 2020, 10, 20760.	3.3	3
139	Daily energy expenditure in white storks is lower after fledging than in the nest. Journal of Experimental Biology, 2020, 223, .	1.7	3
140	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
141	Layered patterns in nature, medicine, and materials: quantifying anisotropic structures and cyclicity. PeerJ, 2019, 7, e7813.	2.0	2
142	Arctic Migratory Raptor Selects Nesting Area During the Previous Breeding Season. Frontiers in Ecology and Evolution, 0, $10$ , .	2,2	2
143	Diurnal timing of nonmigratory movement by birds: the importance of foraging spatial scales. Journal of Avian Biology, 2020, 51, .	1.2	1
144	Response to Zöller et al.'s critique on "Potential shortâ€ŧerm earthquake forecasting by farmâ€animal monitoring― Ethology, 2021, 127, 307-308.	1.1	0

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145	Title is missing!. , 2020, 15, e0242662.		O
146	Title is missing!. , 2020, 15, e0242662.		0
147	Title is missing!. , 2020, 15, e0242662.		O
148	Title is missing!. , 2020, 15, e0242662.		0
149	Title is missing!. , 2020, 15, e0242662.		O
150	Title is missing!. , 2020, 15, e0242662.		0