

# Simon Benhamou

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

6,442  
citations

87888

38  
h-index

118850

62  
g-index

63  
all docs

63  
docs citations

63  
times ranked

5714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Random walk models in biology. <i>Journal of the Royal Society Interface</i> , 2008, 5, 813-834.	3.4	1,101
2	How to reliably estimate the tortuosity of an animal's path:. <i>Journal of Theoretical Biology</i> , 2004, 229, 209-220.	1.7	429
3	Spatial memory and animal movement. <i>Ecology Letters</i> , 2013, 16, 1316-1329.	6.4	402
4	Spatial analysis of animals' movements using a correlated random walk model. <i>Journal of Theoretical Biology</i> , 1988, 131, 419-433.	1.7	370
5	HOW MANY ANIMALS REALLY DO THE LÄ%VY WALK?. <i>Ecology</i> , 2007, 88, 1962-1969.	3.2	365
6	ANIMAL MOVEMENTS IN HETEROGENEOUS LANDSCAPES: IDENTIFYING PROFITABLE PLACES AND HOMOGENEOUS MOVEMENT BOUTS. <i>Ecology</i> , 2008, 89, 3336-3348.	3.2	259
7	Memory keeps you at home: a mechanistic model for home range emergence. <i>Oikos</i> , 2009, 118, 641-652.	2.7	228
8	Dynamic Approach to Space and Habitat Use Based on Biased Random Bridges. <i>PLoS ONE</i> , 2011, 6, e14592.	2.5	215
9	Optimizing the use of biologgers for movement ecology research. <i>Journal of Animal Ecology</i> , 2020, 89, 186-206.	2.8	178
10	Efficiency of area-concentrated searching behaviour in a continuous patchy environment. <i>Journal of Theoretical Biology</i> , 1992, 159, 67-81.	1.7	159
11	How Predictability of Feeding Patches Affects Home Range and Foraging Habitat Selection in Avian Social Scavengers?. <i>PLoS ONE</i> , 2013, 8, e53077.	2.5	143
12	Incorporating Movement Behavior and Barriers to Improve Kernel Home Range Space Use Estimates. <i>Journal of Wildlife Management</i> , 2010, 74, 1353-1360.	1.8	139
13	Of scales and stationarity in animal movements. <i>Ecology Letters</i> , 2014, 17, 261-272.	6.4	127
14	How animals use their environment: a new look at kinesis. <i>Animal Behaviour</i> , 1989, 38, 375-383.	1.9	118
15	Spatial memory in large scale movements: Efficiency and limitation of the egocentric coding process. <i>Journal of Theoretical Biology</i> , 1990, 145, 1-12.	1.7	118
16	Marine Turtles Use Geomagnetic Cues during Open-Sea Homing. <i>Current Biology</i> , 2007, 17, 126-133.	3.9	107
17	Beyond the Utilization Distribution: Identifying home range areas that are intensively exploited or repeatedly visited. <i>Ecological Modelling</i> , 2012, 227, 112-116.	2.5	107
18	Spatial memory and searching efficiency. <i>Animal Behaviour</i> , 1994, 47, 1423-1433.	1.9	100

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19	FAD: Fish Aggregating Device or Fish Attracting Device? A new analysis of yellowfin tuna movements around floating objects. <i>Animal Behaviour</i> , 2004, 67, 319-326.	1.9	98
20	DETECTING AN ORIENTATION COMPONENT IN ANIMAL PATHS WHEN THE PREFERRED DIRECTION IS INDIVIDUAL-DEPENDENT. <i>Ecology</i> , 2006, 87, 518-528.	3.2	93
21	The Neuropsychology of Spatial Cognition in the Rat. <i>Critical Reviews in Neurobiology</i> , 1997, 11, 101-120.	3.1	91
22	Landmark use by navigating rats ( <i>Rattus norvegicus</i> ) contrasting geometric and featural information.. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 1998, 112, 317-322.	0.5	89
23	Incorporating Movement Behavior and Barriers to Improve Kernel Home Range Space Use Estimates. <i>Journal of Wildlife Management</i> , 2010, 74, 1353-1360.	1.8	81
24	Distinguishing between elementary orientation mechanisms by means of path analysis. <i>Animal Behaviour</i> , 1992, 43, 371-377.	1.9	76
25	Path integration in dogs. <i>Animal Behaviour</i> , 1998, 55, 787-797.	1.9	68
26	How Memory-Based Movement Leads to Nonterritorial Spatial Segregation. <i>American Naturalist</i> , 2015, 185, E103-E116.	2.1	68
27	No evidence for cognitive mapping in rats. <i>Animal Behaviour</i> , 1996, 52, 201-212.	1.9	66
28	Optimal sinuosity in central place foraging movements. <i>Animal Behaviour</i> , 1991, 42, 57-62.	1.9	61
29	An olfactory orientation model for mammals' movements in their home ranges. <i>Journal of Theoretical Biology</i> , 1989, 139, 379-388.	1.7	60
30	Successful homing of magnet-carrying white-chinned petrels released in the open sea. <i>Animal Behaviour</i> , 2003, 65, 729-734.	1.9	54
31	The dynamics of group formation in large mammalian herbivores: an analysis in the European roe deer. <i>Animal Behaviour</i> , 2007, 74, 1429-1441.	1.9	50
32	Periodicity analysis of movement recursions. <i>Journal of Theoretical Biology</i> , 2013, 317, 238-243.	1.7	50
33	Movement-based analysis of interactions in African lions. <i>Animal Behaviour</i> , 2014, 90, 171-180.	1.9	50
34	Are <i>Cape gannets</i> dependent upon fishery waste? A multi-scale analysis using seabird GPS-tracking, hydroacoustic surveys of pelagic fish and vessel monitoring systems. <i>Journal of Applied Ecology</i> , 2013, 50, 659-670.	4.0	49
35	Spatiotemporal dynamics of forage and water resources shape space use of West African savanna buffaloes. <i>Journal of Mammalogy</i> , 2011, 92, 1287-1297.	1.3	47
36	How to find one's way in the labyrinth of path integration models. <i>Journal of Theoretical Biology</i> , 1995, 174, 463-466.	1.7	46

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37	On systems of reference involved in spatial memory. <i>Behavioural Processes</i> , 1997, 40, 149-163.	1.1	46
38	An analysis of movements of the wood mouse <i>Apodemus sylvaticus</i> in its home range. <i>Behavioural Processes</i> , 1991, 22, 235-250.	1.1	44
39	Identifying stationary phases in multivariate time series for highlighting behavioural modes and home range settlements. <i>Journal of Animal Ecology</i> , 2020, 89, 44-56.	2.8	39
40	The spatial ecology of juvenile loggerhead turtles ( <i>Caretta caretta</i> ) in the Indian Ocean sheds light on the "lost years" mystery. <i>Marine Biology</i> , 2014, 161, 1835-1849.	1.5	38
41	Bicoordinate navigation based on non-orthogonal gradient fields. <i>Journal of Theoretical Biology</i> , 2003, 225, 235-239.	1.7	35
42	Ultimate failure of the Lévy Foraging Hypothesis: Two-scale searching strategies outperform scale-free ones even when prey are scarce and cryptic. <i>Journal of Theoretical Biology</i> , 2015, 387, 221-227.	1.7	33
43	Coping with Spatial Heterogeneity and Temporal Variability in Resources and Risks: Adaptive Movement Behaviour by a Large Grazing Herbivore. <i>PLoS ONE</i> , 2015, 10, e0118461.	2.5	33
44	The Role of Geomagnetic Cues in Green Turtle Open Sea Navigation. <i>PLoS ONE</i> , 2011, 6, e26672.	2.5	31
45	High fidelity of sea turtles to their foraging grounds revealed by satellite tracking and capture-mark-recapture: New insights for the establishment of key marine conservation areas. <i>Biological Conservation</i> , 2020, 250, 108742.	4.1	29
46	Assessing the risk for an obligate scavenger to be dependent on predictable feeding sources. <i>Biological Conservation</i> , 2017, 215, 92-98.	4.1	26
47	The Gulf Stream frontal system: A key oceanographic feature in the habitat selection of the leatherback turtle?. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2017, 123, 35-47.	1.4	23
48	From randomness to traplining: a framework for the study of routine movement behavior. <i>Behavioral Ecology</i> , 2017, 28, 280-287.	2.2	23
49	HOW MANY ANIMALS REALLY DO THE LÉVY WALK? REPLY. <i>Ecology</i> , 2008, 89, 2351-2352.	3.2	22
50	Homing in pelagic birds: a pilot experiment with white-chinned petrels released in the open sea. <i>Behavioural Processes</i> , 2003, 61, 95-100.	1.1	20
51	What do European badgers ( <i>Meles meles</i> ) know about the spatial organisation of neighbouring groups?. <i>Behavioural Processes</i> , 2006, 72, 84-90.	1.1	18
52	Orientation and foraging movements in a patchy environment by the ant <i>Serrastruma lujae</i> (formicidae-myrmicinae). <i>Behavioural Processes</i> , 1993, 30, 233-243.	1.1	17
53	Place navigation in mammals: a configuration-based model. <i>Animal Cognition</i> , 1998, 1, 55-63.	1.8	17
54	Gastrointestinal parasitism and recursive movements in free-ranging mandrills. <i>Animal Behaviour</i> , 2017, 134, 87-98.	1.9	16

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55	Volume-concentrated searching by an aerial insectivore, the common swift, <i>Apus apus</i> . <i>Animal Behaviour</i> , 2018, 136, 159-172.	1.9	14
56	Flexible migratory choices of <i>Coryphaea</i> 's shearwaters are not driven by shifts in prevailing air currents. <i>Scientific Reports</i> , 2018, 8, 3376.	3.3	13
57	Space use and foraging movements in the American red squirrel ( <i>Tamiasciurus hudsonicus</i> ). <i>Behavioural Processes</i> , 1996, 37, 89-102.	1.1	12
58	Orientation and movement patterns of wood mice ( <i>Apodemus sylvaticus</i> ) released inside and outside a familiar area.. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 1989, 103, 54-61.	0.5	10
59	Foraging efficiency in temporally predictable environments: is a long-term temporal memory really advantageous?. <i>Royal Society Open Science</i> , 2021, 8, 210809.	2.4	8
60	Infrasound as a Cue for Seabird Navigation. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	7
61	Path integration and coordinate systems. <i>Journal of Theoretical Biology</i> , 2014, 349, 163-166.	1.7	2
62	Evaluating vector navigation in green turtles migrating in a dynamic oceanic environment. <i>Ethology Ecology and Evolution</i> , 2021, 33, 290-306.	1.4	2