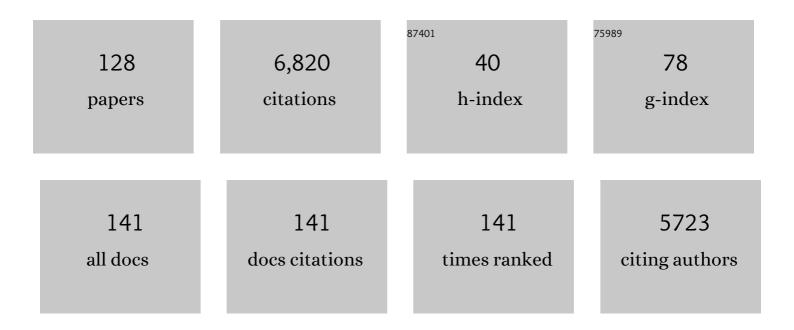
Charlotte K Hemelrijk

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Causes of variation of darkness in flocks of starlings, a computational model. Swarm Intelligence, 2022, 16, 91-105.	1.3	2
2	Self-organization of collective escape in pigeon flocks. PLoS Computational Biology, 2022, 18, e1009772.	1.5	23
3	Hierarchical development of dominance through the winner-loser effect and socio-spatial structure. PLoS ONE, 2022, 17, e0243877.	1.1	1
4	Emergence of splits and collective turns in pigeon flocks under predation. Royal Society Open Science, 2022, 9, 211898.	1.1	17
5	Optimization of dynamic soaring in a flap-gliding seabird affects its large-scale distribution at sea. Science Advances, 2022, 8, .	4.7	18
6	Optimization of avian perching manoeuvres. Nature, 2022, 607, 91-96.	13.7	12
7	Attack behaviour in naive gyrfalcons is modelled by the same guidance law as in peregrine falcons, but at a lower guidance gain. Journal of Experimental Biology, 2021, 224, .	0.8	12
8	Aerial attack strategies of hawks hunting bats, and the adaptive benefits of swarming. Behavioral Ecology, 2021, 32, 464-476.	1.0	10
9	Female emancipation in a male dominant, sexually dimorphic primate under natural conditions. PLoS ONE, 2021, 16, e0249039.	1.1	10
10	A semi-empirical model of the aerodynamics of manoeuvring insect flight. Journal of the Royal Society Interface, 2021, 18, 20210103.	1.5	9
11	Absence of "selfish herd―dynamics in bird flocks under threat. Current Biology, 2021, 31, 3192-3198.e7.	1.8	34
12	Calibration of multiple cameras for large-scale experiments using a freely moving calibration target. Experiments in Fluids, 2020, 61, 1.	1.1	6
13	Modelling non-attentional visual information transmission in groups under predation. Ecological Modelling, 2020, 431, 109073.	1.2	1
14	Dynamics of Intersexual Dominance and Adult Sex- Ratio in Wild Vervet Monkeys. Frontiers in Psychology, 2020, 11, 839.	1.1	18
15	An Algorithmic Approach to Natural Behavior. Current Biology, 2020, 30, R663-R675.	1.8	35
16	The 2020 motile active matter roadmap. Journal of Physics Condensed Matter, 2020, 32, 193001.	0.7	242
17	On the morphology and evolution of cicadomorphan tymbal organs. Arthropod Structure and Development, 2020, 55, 100918.	0.8	5
18	Damping of waves of agitation in starling flocks. Behavioral Ecology and Sociobiology, 2019, 73, 1.	0.6	5

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19	On the morphology and possible function of two putative vibroacoustic mechanisms in derbid planthoppers (Hemiptera: Fulgoromorpha: Derbidae). Arthropod Structure and Development, 2019, 52, 100880.	0.8	5
20	Complex patterns of collective escape in starling flocks under predation. Behavioral Ecology and Sociobiology, 2019, 73, 10.	0.6	42
21	Birds invest wingbeats to keep a steady head and reap the ultimate benefits of flying together. PLoS Biology, 2019, 17, e3000299.	2.6	27
22	Hawks steer attacks using a guidance system tuned for close pursuit of erratically manoeuvringÂtargets. Nature Communications, 2019, 10, 2462.	5.8	34
23	Planthopper bugs use a fast, cyclic elastic recoil mechanism for effective vibrational communication at small body size. PLoS Biology, 2019, 17, e3000155.	2.6	18
24	Sexual size dimorphism, prey morphology and catch success in relation to flight mechanics in the peregrine falcon: a simulation study. Journal of Avian Biology, 2019, 50, .	0.6	6
25	Motor output and control input in flapping flight: a compact model of the deforming wing kinematics of manoeuvring hoverflies. Journal of the Royal Society Interface, 2019, 16, 20190435.	1.5	4
26	Social conformity and propagation of information in collective U-turns of fish schools. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180251.	1.2	43
27	Spontaneous emergence of milling (vortex state) in a Vicsek-like model. Journal Physics D: Applied Physics, 2018, 51, 134004.	1.3	33
28	Physics-based simulations of aerial attacks by peregrine falcons reveal that stooping at high speed maximizes catch success against agile prey. PLoS Computational Biology, 2018, 14, e1006044.	1.5	23
29	Simple scaling law predicts peak efficiency in oscillatory propulsion. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8063-8065.	3.3	11
30	Young macaques (Macaca fascicularis) preferentially bias attention towards closer, older, and better tool users. Animal Cognition, 2018, 21, 551-563.	0.9	15
31	Head movements quadruple the range of speeds encoded by the insect motion vision system in hawkmoths. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171622.	1.2	10
32	The pregenital abdomen of Enicocephalomorpha and morphological evidence for different modes of communication at the dawn of heteropteran evolution. Arthropod Structure and Development, 2017, 46, 843-868.	0.8	10
33	Simulating Complexity of Animal Social Behaviour. Understanding Complex Systems, 2017, , 633-670.	0.3	1
34	Terminal attack trajectories of peregrine falcons are described by the proportional navigation guidance law of missiles. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13495-13500.	3.3	72
35	Female Dominance in Human Groups. Social Psychological and Personality Science, 2017, 8, 209-218.	2.4	8
36	The Self-organization of Social Complexity in Group-Living Animals. Advances in the Study of Behavior, 2017, 49, 361-405.	1.0	9

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37	The confusion effect when attacking simulated three-dimensional starling flocks. Royal Society Open Science, 2017, 4, 160564.	1.1	32
38	Soaring energetics and glide performance in a moving atmosphere. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150398.	1.8	33
39	"Targeting or supporting, what drives patterns of aggressive intervention in fights?― American Journal of Primatology, 2016, 78, 247-255.	0.8	5
40	Early maternal loss affects social integration of chimpanzees throughout their lifetime. Scientific Reports, 2015, 5, 16439.	1.6	30
41	Four-dimensional in vivo X-ray microscopy with projection-guided gating. Scientific Reports, 2015, 5, 8727.	1.6	51
42	Diffusion and Topological Neighbours in Flocks of Starlings: Relating a Model to Empirical Data. PLoS ONE, 2015, 10, e0126913.	1.1	23
43	The increased Efficiency of Fish Swimming in a School, a New Computational Model. Journal of Aero Aqua Bio-mechanisms, 2015, 4, 8-11.	1.0	0
44	Friendship, reciprocation, and interchange in an individual-based model. Behavioral Ecology and Sociobiology, 2015, 69, 383-394.	0.6	20
45	Scale-Free Correlations, Influential Neighbours and Speed Control in Flocks of Birds. Journal of Statistical Physics, 2015, 158, 563-578.	0.5	38
46	Simulating predator attacks on schools: Evolving composite tactics. Ecological Modelling, 2015, 304, 22-33.	1.2	27
47	What underlies waves of agitation in starling flocks. Behavioral Ecology and Sociobiology, 2015, 69, 755-764.	0.6	31
48	The increased efficiency of fish swimming in a school. Fish and Fisheries, 2015, 16, 511-521.	2.7	174
49	The Evolution of Different Forms of Sociality: Behavioral Mechanisms and Eco-Evolutionary Feedback. PLoS ONE, 2015, 10, e0117027.	1.1	12
50	Cooperation, Coalition, Alliances. , 2015, , 1693-1720.		0
51	Empathy versus Parsimony in Understanding Post-Conflict Affiliation in Monkeys: Model and Empirical Data. PLoS ONE, 2014, 9, e91262.	1.1	26
52	The sun compass revisited. Animal Behaviour, 2014, 97, 135-143.	0.8	43
53	In Vivo Time-Resolved Microtomography Reveals the Mechanics of the Blowfly Flight Motor. PLoS Biology, 2014, 12, e1001823.	2.6	134
54	Wing tucks are a response to atmospheric turbulence in the soaring flight of the steppe eagle <i>Aquila nipalensis</i> . Journal of the Royal Society Interface, 2014, 11, 20140645.	1.5	46

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55	â€~Theory of mind' in animals: ways to make progress. SynthÃ^se, 2014, 191, 335-354.	0.6	13
56	A metaâ€analysis of steady undulatory swimming. Fish and Fisheries, 2014, 15, 397-409.	2.7	27
57	Movement initiation in groups of feral horses. Behavioural Processes, 2014, 103, 91-101.	0.5	55
58	A Novel Mechanism for a Survival Advantage of Vigilant Individuals in Groups. American Naturalist, 2013, 182, 682-688.	1.0	12
59	High-Speed X-ray Imaging on the Fly. Synchrotron Radiation News, 2013, 26, 4-10.	0.2	8
60	Fewer invited talks by women in evolutionary biology symposia. Journal of Evolutionary Biology, 2013, 26, 2063-2069.	0.8	120
61	Simulating Complexity of Animal Social Behaviour. Understanding Complex Systems, 2013, , 581-615.	0.3	3
62	Cooperation, Coalition, and Alliances. , 2013, , 1-27.		1
63	Schools of fish and flocks of birds: their shape and internal structure by self-organization. Interface Focus, 2012, 2, 726-737.	1.5	178
64	Fluid dynamics of moving fish in a two-dimensional multiparticle collision dynamics model. Physical Review E, 2012, 85, 021901.	0.8	30
65	Corvid Re-Caching without â€~Theory of Mind': A Model. PLoS ONE, 2012, 7, e32904.	1.1	32
66	Simulations of the social organization of large schools of fish whose perception is obstructed. Applied Animal Behaviour Science, 2012, 138, 142-151.	0.8	36
67	An Individual-Oriented Model on the Emergence of Support in Fights, Its Reciprocation and Exchange. PLoS ONE, 2012, 7, e37271.	1.1	36
68	A minimalist approach to comparative psychology. Trends in Cognitive Sciences, 2011, 15, 185-186.	4.0	10
69	Soaring and manoeuvring flight of a steppe eagle Aquila nipalensis. Journal of Avian Biology, 2011, 42, 377-386.	0.6	47
70	Propagating waves in starling, Sturnus vulgaris, flocks under predation. Animal Behaviour, 2011, 82, 759-765.	0.8	105
71	Corvid caching: Insights from a cognitive model Journal of Experimental Psychology, 2011, 37, 330-340.	1.9	13
72	Some Causes of the Variable Shape of Flocks of Birds. PLoS ONE, 2011, 6, e22479.	1.1	106

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73	Boldness by habituation and social interactions: a model. Behavioral Ecology and Sociobiology, 2010, 64, 793-802.	0.6	33
74	Brood temperature, task division and colony survival in honeybees: A model. Ecological Modelling, 2010, 221, 769-776.	1.2	34
75	FREQUENCY-DEPENDENT SOCIAL DOMINANCE IN A COLOR POLYMORPHIC CICHLID FISH. Evolution; International Journal of Organic Evolution, 2010, 64, no-no.	1.1	29
76	Emergence of Oblong School Shape: Models and Empirical Data of Fish. Ethology, 2010, 116, 1099-1112.	0.5	65
77	Fractional rate of change of swim-bladder volume is reliably related to absolute depth during vertical displacements in teleost fish. Journal of the Royal Society Interface, 2010, 7, 1379-1382.	1.5	24
78	Self-organized aerial displays of thousands of starlings: a model. Behavioral Ecology, 2010, 21, 1349-1359.	1.0	182
79	Flow around fishlike shapes studied using multiparticle collision dynamics. Physical Review E, 2009, 79, 046313.	0.8	9
80	Emergent Patterns of Social Affiliation in Primates, a Model. PLoS Computational Biology, 2009, 5, e1000630.	1.5	52
81	Color polymorphism and intrasexual competition in assemblages of cichlid fish. Behavioral Ecology, 2009, 20, 138-144.	1.0	55
82	Selfâ€Organized Shape and Frontal Density of Fish Schools. Ethology, 2008, 114, 245-254.	0.5	130
83	Female Dominance over Males in Primates: Self-Organisation and Sexual Dimorphism. PLoS ONE, 2008, 3, e2678.	1.1	69
84	15 Cooperation, Coalition, and Alliances. , 2007, , 1321-1346.		3
85	Application of digital particle image velocimetry to insect aerodynamics: measurement of the leading-edge vortex and near wake of a Hawkmoth. Experiments in Fluids, 2006, 40, 546-554.	1.1	80
86	Individual variation by self-organisation. Neuroscience and Biobehavioral Reviews, 2005, 29, 125-136.	2.9	46
87	Reconciliation and relationship quality in Assamese macaques (Macaca assamensis). American Journal of Primatology, 2005, 65, 269-282.	0.8	54
88	Problems of allometric scaling analysis: examples from mammalian reproductive biology. Journal of Experimental Biology, 2005, 208, 1731-1747.	0.8	125
89	Density distribution and size sorting in fish schools: an individual-based model. Behavioral Ecology, 2005, 16, 178-187.	1.0	136
90	The construction of dominance order: comparing performance of five methods using an individual-based model. Behaviour, 2005, 142, 1037-1058.	0.4	85

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91	Nonlinear time-periodic models of the longitudinal flight dynamics of desert locusts Schistocerca gregaria. Journal of the Royal Society Interface, 2005, 2, 197-221.	1.5	77
92	Self-Organisation and Evolution of Social Systems. , 2005, , .		14
93	Tuning of Strouhal number for high propulsive efficiency accurately predicts how wingbeat frequency and stroke amplitude relate and scale with size and flight speed in birds. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 2071-2076.	1.2	74
94	Dominance style, differences between the sexes and individuals. Interaction Studies, 2004, 5, 131-146.	0.4	11
95	Self-organizing properties of primate social behavior: A hypothesis for intersexual rank overlap in chimpanzees and bonobos. Evolutionary Anthropology, 2003, 11, 91-94.	1.7	6
96	Flying and swimming animals cruise at a Strouhal number tuned for high power efficiency. Nature, 2003, 425, 707-711.	13.7	813
97	Artificial Fish Schools: Collective Effects of School Size, Body Size, and Body Form. Artificial Life, 2003, 9, 237-253.	1.0	122
98	Female Co-Dominance in a Virtual World: Ecological, Cognitive, Social and Sexual Causes. Behaviour, 2003, 140, 1247-1273.	0.4	32
99	Female Dominance and Social Structure in Alaotran Gentle Lemurs. Behaviour, 2003, 140, 1235-1246.	0.4	72
100	Introduction to Special Issue on Collective Effects of Human Behavior. Artificial Life, 2003, 9, 339-341.	1.0	6
101	Despotic societies, sexual attraction and the emergence of male 'tolerance': an agent-based model. Behaviour, 2002, 139, 729-747.	0.4	28
102	Self-Organization and Natural Selection in the Evolution of Complex Despotic Societies. Biological Bulletin, 2002, 202, 283-288.	0.7	33
103	Understanding Social Behaviour with the Help of Complexity Science (Invited Article). Ethology, 2002, 108, 655-671.	0.5	68
104	Mechanics and aerodynamics of insect flight control. Biological Reviews, 2001, 76, 449-471.	4.7	155
105	Towards the integration of social dominance and spatial structure. Animal Behaviour, 2000, 59, 1035-1048.	0.8	187
106	The formation and maintenance of crayfish hierarchies: behavioral and self-structuring properties. Behavioral Ecology and Sociobiology, 2000, 48, 418-428.	0.6	173
107	Paternity determination, genetic characterization, and social correlates in a captive group of chimpanzees (Pan troglodytes). Primates, 2000, 41, 175-183.	0.7	28
108	Self-Reinforcing Dominance Interactions Between Virtual Males and Females. Hypothesis Generation for Primate Studies. Adaptive Behavior, 2000, 8, 13-26.	1.1	28

2

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109	Sexual Attraction and Inter-sexual Dominance among Virtual Agents. Lecture Notes in Computer Science, 2000, , 167-180.	1.0	6
110	An individual–orientated model of the emergence of despotic and egalitarian societies. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 361-369.	1.2	140
111	â€~Friendship' for fitness in chimpanzees?. Animal Behaviour, 1999, 58, 1223-1229.	0.8	102
112	Effects of Cohesiveness on Inter-sexual Dominance Relationships and Spatial Structure among Group-Living Virtual Entities. Lecture Notes in Computer Science, 1999, , 524-534.	1.0	14
113	Philopatry, male presence and grooming reciprocation among female primates: a comparative perspective. Behavioral Ecology and Sociobiology, 1998, 42, 207-215.	0.6	38
114	Reciprocation in apes: from complex cognition to self-structuring. , 1996, , 185-195.		26
115	Hiding and perspective taking in long-tailed macaques (Macaca fascicularis) Journal of Comparative Psychology (Washington, D C: 1983), 1996, 110, 97-102.	0.3	70
116	Support for being groomed in long-tailed macaques, Macaca fascicularis. Animal Behaviour, 1994, 48, 479-481.	0.8	144
117	Sexual exchange relationships in captive chimpanzees?. Behavioral Ecology and Sociobiology, 1992, 30, 269-275.	0.6	88
118	Reciprocity and interchange of grooming and â€ [~] support' in captive chimpanzees. Animal Behaviour, 1991, 41, 923-935.	0.8	152
119	Interchange of "altruistic―acts as an epiphenomenon. Journal of Theoretical Biology, 1991, 153, 137-139.	0.8	11
120	Side-Directed Behaviour and Recruitment of Support in Captive Chimpanzees. Behaviour, 1991, 118, 89-101.	0.4	13
121	A matrix partial correlation test used in investigations of reciprocity and other social interaction patterns at group level. Journal of Theoretical Biology, 1990, 143, 405-420.	0.8	172
122	Models of, and tests for, reciprocity, unidirectionality and other social interaction patterns at a group level. Animal Behaviour, 1990, 39, 1013-1029.	0.8	270
123	What Chimpanzee Mothers Have More Sociable Infants?. Behaviour, 1989, 111, 305-318.	0.4	14
124	Traffic rules of fish schools: a review of agent-based approaches. , 0, , 50-80.		12
125	A process-oriented approach to the social behaviour of primates. , 0, , 81-107.		1

126 Order and noise in primate societies. , 0, , 108-122.

#	Article	IF	CITATIONS
127	Small Groups from an Evolutionary Perspective. , 0, , 369-396.		8
128	Effect of time-delayed interactions on milling: a minimal model. Europhysics Letters, 0, , .	0.7	1