

# Nikolai Bode

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7640142/publications.pdf>

Version: 2024-02-01

28  
papers

1,347  
citations

516710

16  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1048  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual sensory networks and effective information transfer in animal groups. <i>Current Biology</i> , 2013, 23, R709-R711.	3.9	343
2	Human exit route choice in virtual crowd evacuations. <i>Animal Behaviour</i> , 2013, 86, 347-358.	1.9	132
3	How perceived threat increases synchronization in collectively moving animal groups. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 3065-3070.	2.6	119
4	Limited interactions in flocks: relating model simulations to empirical data. <i>Journal of the Royal Society Interface</i> , 2011, 8, 301-304.	3.4	106
5	Human responses to multiple sources of directional information in virtual crowd evacuations. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130904.	3.4	81
6	Disentangling the Impact of Social Groups on Response Times and Movement Dynamics in Evacuations. <i>PLoS ONE</i> , 2015, 10, e0121227.	2.5	79
7	Information use by humans during dynamic route choice in virtual crowd evacuations. <i>Royal Society Open Science</i> , 2015, 2, 140410.	2.4	59
8	Route choice in pedestrians: determinants for initial choices and revising decisions. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160684.	3.4	52
9	Comparing the route-choice behavior of pedestrians around obstacles in a virtual experiment and a field study. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 107, 120-136.	7.6	50
10	Panic, Irrationality, and Herding: Three Ambiguous Terms in Crowd Dynamics Research. <i>Journal of Advanced Transportation</i> , 2019, 2019, 1-58.	1.7	41
11	Distinguishing Social from Nonsocial Navigation in Moving Animal Groups. <i>American Naturalist</i> , 2012, 179, 621-632.	2.1	38
12	Increased costs reduce reciprocal helping behaviour of humans in a virtual evacuation experiment. <i>Scientific Reports</i> , 2015, 5, 15896.	3.3	37
13	How cognitive heuristics can explain social interactions in spatial movement. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160439.	3.4	37
14	The emergence of macroscopic interactions between intersecting pedestrian streams. <i>Transportation Research Part B: Methodological</i> , 2019, 119, 197-210.	5.9	24
15	Social groups barely change the speed-density relationship in unidirectional pedestrian flow, but affect operational behaviours. <i>Safety Science</i> , 2021, 139, 105259.	4.9	20
16	The principles of pedestrian route choice. <i>Journal of the Royal Society Interface</i> , 2022, 19, 20220061.	3.4	19
17	Copycat dynamics in leaderless animal group navigation. <i>Movement Ecology</i> , 2014, 2, .	2.8	18
18	Balancing direct and indirect sources of navigational information in a leaderless model of collective animal movement. <i>Journal of Theoretical Biology</i> , 2016, 394, 32-42.	1.7	15

#	ARTICLE	IF	CITATIONS
19	Social networks improve leaderless group navigation by facilitating long-distance communication. <i>Environmental Epigenetics</i> , 2012, 58, 329-341.	1.8	14
20	Exploring Determinants of Pre-movement Delays in a Virtual Crowd Evacuation Experiment. <i>Fire Technology</i> , 2019, 55, 595-615.	3.0	14
21	The value pedestrians attribute to environmental information diminishes in route choice sequences. <i>Transportation Research Part C: Emerging Technologies</i> , 2021, 124, 102909.	7.6	14
22	Using Hidden Markov Models to characterise intermittent social behaviour in fish shoals. <i>Die Naturwissenschaften</i> , 2018, 105, 7.	1.6	8
23	Higher investment levels into pre-planned routes increase the adherence of pedestrians to them. <i>Transportation Research Part F: Traffic Psychology and Behaviour</i> , 2021, 82, 297-315.	3.7	7
24	A systematic review and meta-analysis on the effect social groups have on the egress times of pedestrian crowds. <i>Transportmetrica A: Transport Science</i> , 2023, 19, .	2.0	6
25	Bayesian inference methods to calibrate crowd dynamics models for safety applications. <i>Safety Science</i> , 2022, 147, 105586.	4.9	6
26	Empirical Research on Pedestrians' Behavior and Crowd Dynamics. <i>Journal of Advanced Transportation</i> , 2019, 2019, 1-2.	1.7	5
27	A method for detecting characteristic patterns in social interactions with an application to handover interactions. <i>Royal Society Open Science</i> , 2017, 4, 160694.	2.4	2
28	Simulating the effect of measurement errors on pedestrian destination choice model calibration. <i>Transportmetrica A: Transport Science</i> , 0, , 1-41.	2.0	1