Richard Fournier

List of Publications by Year
in descending order

18	1,186	687363 13	839539 18
papers	citations	h-index	g-index

18	18	18	1043
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deciphering Interactions in Moving Animal Groups. PLoS Computational Biology, 2012, 8, e1002678.	3.2	240
2	Self-organized aggregation in cockroaches. Animal Behaviour, 2005, 69, 169-180.	1.9	223
3	Spatial patterns in ant colonies. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9645-9649.	7.1	195
4	A model of animal movements in a bounded space. Journal of Theoretical Biology, 2003, 225, 443-451.	1.7	134
5	Analyzing fish movement as a persistent turning walker. Journal of Mathematical Biology, 2009, 58, 429-445.	1.9	103
6	Calculation of the radiative properties of photosynthetic microorganisms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 161, 60-84.	2.3	54
7	Short-Path Statistics and the Diffusion Approximation. Physical Review Letters, 2006, 97, 230604.	7.8	33
8	A Pathâ€Tracing Monte Carlo Library for 3â€Ð Radiative Transfer in Highly Resolved Cloudy Atmospheres. Journal of Advances in Modeling Earth Systems, 2019, 11, 2449-2473.	3.8	33
9	Modeling Collective Animal Behavior with a Cognitive Perspective: A Methodological Framework. PLoS ONE, 2012, 7, e38588.	2.5	32
10	The practice of recent radiative transfer Monte Carlo advances and its contribution to the field of microorganisms cultivation in photobioreactors. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 128, 52-59.	2.3	31
11	Monte Carlo Estimates of Domain-Deformation Sensitivities. Physical Review Letters, 2005, 95, 180601.	7.8	24
12	Radiative transfer and spectroscopic databases: A line-sampling Monte Carlo approach. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 172, 83-97.	2.3	18
13	Addressing nonlinearities in Monte Carlo. Scientific Reports, 2018, 8, 13302.	3.3	16
14	How Do Ants Make Sense of Gravity? A Boltzmann Walker Analysis of Lasius niger Trajectories on Various Inclines. PLoS ONE, 2013, 8, e76531.	2.5	16
15	Three viewpoints on null-collision Monte Carlo algorithms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107402.	2.3	13
16	Monte Carlo implementation of Schiff×³s approximation for estimating radiative properties of homogeneous, simple-shaped and optically soft particles: Application to photosynthetic micro-organisms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 172, 3-23.	2.3	10
17	Addressing the gas kinetics Boltzmann equation with branching-path statistics. Physical Review E, 2022, 105, 025305.	2.1	6
18	Residence times and boundary-following behavior in animals. Physical Review E, 2014, 89, 052715.	2.1	5