

Richard Fournier

List of Publications by Year in descending order

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18
papers

1,186
citations

687363

13
h-index

839539

18
g-index

18
all docs

18
docs citations

18
times ranked

1043
citing authors

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