

Jeroen Wouters

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

618
citations

687363

13
h-index

677142

22
g-index

27
all docs

27
docs citations

27
times ranked

498
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical and physical ideas for climate science. <i>Reviews of Geophysics</i> , 2014, 52, 809-859.	23.0	104
2	Computation of extreme heat waves in climate models using a large deviation algorithm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 24-29.	7.1	104
3	Multi-level Dynamical Systems: Connecting the Ruelle Response Theory and the Mori-Zwanzig Approach. <i>Journal of Statistical Physics</i> , 2013, 151, 850-860.	1.2	65
4	Universal Behaviour of Extreme Value Statistics for Selected Observables of Dynamical Systems. <i>Journal of Statistical Physics</i> , 2012, 147, 63-73.	1.2	63
5	Disentangling multi-level systems: averaging, correlations and memory. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P03003.	2.3	43
6	Towards a General Theory of Extremes for Observables of Chaotic Dynamical Systems. <i>Journal of Statistical Physics</i> , 2014, 154, 723-750.	1.2	39
7	Rare event computation in deterministic chaotic systems using genealogical particle analysis. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 374002.	2.1	31
8	On using extreme values to detect global stability thresholds in multi-stable systems: The case of transitional plane Couette flow. <i>Chaos, Solitons and Fractals</i> , 2014, 64, 26-35.	5.1	22
9	On spurious detection of linear response and misuse of the fluctuation-dissipation theorem in finite time series. <i>Physica D: Nonlinear Phenomena</i> , 2016, 331, 89-101.	2.8	21
10	A large deviation theory-based analysis of heat waves and cold spells in a simplified model of the general circulation of the atmosphere. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 033404.	2.3	19
11	Parameterization of stochastic multiscale triads. <i>Nonlinear Processes in Geophysics</i> , 2016, 23, 435-445.	1.3	16
12	Rare Event Sampling Methods. <i>Chaos</i> , 2019, 29, 080402.	2.5	15
13	Applications of large deviation theory in geophysical fluid dynamics and climate science. <i>Rivista Del Nuovo Cimento</i> , 2021, 44, 291-363.	5.7	14
14	Response formulae for n -point correlations in statistical mechanical systems and application to a problem of coarse graining. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 355003.	2.1	12
15	Non-rigid brain image registration using a statistical deformation model. , 2006, , .		10
16	Stochastic Model Reduction for Slow-Fast Systems with Moderate Time Scale Separation. <i>Multiscale Modeling and Simulation</i> , 2019, 17, 1172-1188.	1.6	10
17	Classical capacity of a qubit depolarizing channel with memory. <i>Physical Review A</i> , 2009, 79, .	2.5	9
18	Edgeworth expansions for slow-fast systems with finite time-scale separation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180358.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Avalanches, breathers, and flow reversal in a continuous Lorenz-96 model. <i>Physical Review E</i> , 2013, 88, 013201.	2.1	6
20	Evidence for a fluctuation theorem in an atmospheric circulation model. <i>Physical Review E</i> , 2013, 87, 052113.	2.1	5
21	Correlations in free fermionic states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 465308.	2.1	1
22	Relevance of sampling schemes in light of Ruelle's linear response theory. <i>Nonlinearity</i> , 2012, 25, 1311-1327.	1.4	1
23	Deviations from Gaussianity in deterministic discrete time dynamical systems. <i>Chaos</i> , 2020, 30, 023117.	2.5	1
24	Non-rigid image registration using mutual information. , 2006, , 91-103.		0
25	Accessible teaching with GNU TeXmacs. <i>MSOR Connections</i> , 2022, 20, 54-59.	0.1	0