Rainer Hegger

List of Publications by Year
in descending order

28 papers	1,668 citations	471509 17 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	1446 citing authors

#	ARTICLE	IF	CITATIONS
1	Electron–Hole Separation in Perylene Diimide Based Self-Assembled Nanostructures: Microelectrostatics Analysis and Kinetic Monte Carlo Simulations. Journal of Physical Chemistry C, 2022, 126, 9762-9776.	3.1	3
2	First-Principles Quantum and Quantum-Classical Simulations of Exciton Diffusion in Semiconducting Polymer Chains at Finite Temperature. Journal of Chemical Theory and Computation, 2020, 16, 5441-5455.	5.3	13
3	The symmetrical quasi-classical approach to electronically nonadiabatic dynamics applied to ultrafast exciton migration processes in semiconducting polymers. Journal of Chemical Physics, 2018, 149, 044101.	3.0	31
4	Multidimensional Langevin Modeling of Nonoverdamped Dynamics. Physical Review Letters, 2015, 115, 050602.	7.8	20
5	Communication: Microsecond peptide dynamics from nanosecond trajectories: A Langevin approach. Journal of Chemical Physics, 2014, 141, 241102.	3.0	6
6	Data driven Langevin modeling of biomolecular dynamics. Journal of Chemical Physics, 2013, 138, 204106.	3.0	10
7	Hidden Complexity of Protein Free-Energy Landscapes Revealed by Principal Component Analysis by Parts. Journal of Physical Chemistry Letters, 2010, 1, 2769-2773.	4.6	24
8	Multidimensional Langevin modeling of biomolecular dynamics. Journal of Chemical Physics, 2009, 130, 034106.	3.0	48
9	Construction of the free energy landscape of biomolecules via dihedral angle principal component analysis. Journal of Chemical Physics, 2008, 128, 245102.	3.0	170
10	How Complex Is the Dynamics of Peptide Folding?. Physical Review Letters, 2007, 98, 028102.	7.8	85
11	Dihedral angle principal component analysis of molecular dynamics simulations. Journal of Chemical Physics, 2007, 126, 244111.	3.0	279
12	Optimizing of recurrence plots for noise reduction. Physical Review E, 2002, 65, 021102.	2.1	78
13	Nonlinear Noise Reduction. Studies in Computational Finance, 2002, , 401-416.	0.1	0
14	DETERMINATION OF THE DYNAMICAL PROPERTIES OF FERROELECTRICS USING NONLINEAR TIME SERIES ANALYSIS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1019-1034.	1.7	6
15	Analysis of vocal disorders in a feature space. Medical Engineering and Physics, 2000, 22, 413-418.	1.7	22
16	Coping with Nonstationarity by Overembedding. Physical Review Letters, 2000, 84, 4092-4095.	7.8	76
17	Denoising Human Speech Signals Using Chaoslike Features. Physical Review Letters, 2000, 84, 3197-3200.	7.8	36
18	Experimental Verification of Noise Induced Attractor Deformation. Physical Review Letters, 1999, 82, 2274-2277.	7.8	9

#	Article	IF	Citations
19	Estimating the Lyapunov spectrum of time delay feedback systems from scalar time series. Physical Review E, 1999, 60, 1563-1566.	2.1	11
20	Fitting partial differential equations to space-time dynamics. Physical Review E, 1999, 59, 337-342.	2.1	64
21	Identifying and Modeling Delay Feedback Systems. Physical Review Letters, 1998, 81, 558-561.	7.8	185
22	Dynamical properties of a ferroelectric capacitor observed through nonlinear time series analysis. Chaos, 1998, 8, 727-736.	2.5	40
23	`Smart' self-avoiding trails and the collapse of chain polymers in three dimensions. Journal of Physics A, 1996, 29, 279-288.	1.6	12
24	Simulations of single polymer chains in the dense limit. Annalen Der Physik, 1995, 507, 230-250.	2.4	9
25	Simulations of ?-Polymers in 2 Dimensions. Journal De Physique, I, 1995, 5, 597-606.	1.2	43
26	Simulations of three–dimensional Î¸ polymers. Journal of Chemical Physics, 1995, 102, 6881-6899.	3.0	136
27	On noise reduction methods for chaotic data. Chaos, 1993, 3, 127-141.	2.5	240
28	A noise reduction method for multivariate time series. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 170, 305-310.	2.1	12