

Jimme Doll

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3221766/publications.pdf>

Version: 2024-02-01

29
papers

1,934
citations

430843

18
h-index

526264

27
g-index

29
all docs

29
docs citations

29
times ranked

955
citing authors

#	ARTICLE	IF	CITATIONS
1	Brownian dynamics as smart Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 1978, 69, 4628-4633.	3.0	387
2	Reducing quasi-ergodic behavior in Monte Carlo simulations by \tilde{J} -walking: Applications to atomic clusters. <i>Journal of Chemical Physics</i> , 1990, 93, 2769-2784.	3.0	291
3	Phase changes in 38-atom Lennard-Jones clusters. I. A parallel tempering study in the canonical ensemble. <i>Journal of Chemical Physics</i> , 2000, 112, 10340-10349.	3.0	240
4	Phase changes in 38-atom Lennard-Jones clusters. II. A parallel tempering study of equilibrium and dynamic properties in the molecular dynamics and microcanonical ensembles. <i>Journal of Chemical Physics</i> , 2000, 112, 10350-10357.	3.0	183
5	Equilibrium and Dynamical Fourier Path Integral Methods. <i>Advances in Chemical Physics</i> , 2007, , 61-127.	0.3	165
6	A variational Monte Carlo study of argon, neon, and helium clusters. <i>Journal of Chemical Physics</i> , 1991, 95, 3506-3520.	3.0	71
7	Extending \tilde{J} -walking to quantum systems: Applications to atomic clusters. <i>Journal of Chemical Physics</i> , 1992, 97, 5713-5731.	3.0	70
8	COMPUTATIONAL STUDIES OF CLUSTERS: Methods and Results. <i>Annual Review of Physical Chemistry</i> , 1996, 47, 43-80.	10.8	70
9	A semi-empirical potential for simulations of transition metal clusters: Minima and isomers of N_{in} ($n=2\text{--}13$) and their hydrides. <i>Journal of Chemical Physics</i> , 1998, 108, 729-742.	3.0	66
10	The quantum dynamics of hydrogen and deuterium on the Pd(111) surface: A path integral transition state theory study. <i>Journal of Chemical Physics</i> , 1993, 99, 8183-8193.	3.0	59
11	An infinite swapping approach to the rare-event sampling problem. <i>Journal of Chemical Physics</i> , 2011, 135, 134111.	3.0	47
12	On the Infinite Swapping Limit for Parallel Tempering. <i>Multiscale Modeling and Simulation</i> , 2012, 10, 986-1022.	1.6	42
13	A heat capacity estimator for Fourier path integral simulations. <i>Journal of Chemical Physics</i> , 2000, 112, 3990-3996.	3.0	41
14	Optimal series representations for numerical path integral simulations. <i>Journal of Chemical Physics</i> , 2002, 117, 7448-7463.	3.0	41
15	Numerical implementation of some reweighted path integral methods. <i>Journal of Chemical Physics</i> , 2003, 119, 4641-4654.	3.0	25
16	Stationary Phase Monte Carlo Methods. <i>Advances in Chemical Physics</i> , 2007, , 289-304.	0.3	24
17	A \tilde{J} -walking algorithm for microcanonical simulations: Applications to Lennard-Jones clusters. <i>Journal of Chemical Physics</i> , 1998, 109, 1643-1647.	3.0	21
18	Overcoming the Rare Event Sampling Problem in Biological Systems with Infinite Swapping. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4215-4224.	5.3	21

#	ARTICLE	IF	CITATIONS
19	Rare-event sampling: Occupation-based performance measures for parallel tempering and infinite swapping Monte Carlo methods. <i>Journal of Chemical Physics</i> , 2012, 137, 204112.	3.0	19
20	Locating transition states using double-ended classical trajectories. <i>Journal of Chemical Physics</i> , 1994, 101, 10458-10463.	3.0	16
21	On performance measures for infinite swapping Monte Carlo methods. <i>Journal of Chemical Physics</i> , 2015, 142, 024111.	3.0	12
22	Fourier path integral Monte Carlo method for the calculation of the microcanonical density of states. <i>Journal of Chemical Physics</i> , 1994, 101, 848-849.	3.0	9
23	A Simple Method for Calculating Quantum Effects on the Temperature Dependence of Bimolecular Reaction Rates: Application to $H_2 + H \rightarrow H + H_2$ and $CH_4 + H \rightarrow CH_3 + H_2$. <i>Journal of the American Chemical Society</i> , 2000, 122, 9189-9195.	13.7	6
24	A numerical study of the asymptotic convergence characteristics of partial averaged and reweighted Fourier path integral methods. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2916-2925.	2.0	5
25	Short Review of Recent Developments for Path Integral Techniques. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	1
26	Spatial Averaging: Sampling Enhancement for Exploring Configurational Space of Atomic Clusters and Biomolecules. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4284-4296.	5.3	1
27	Thermodynamic integration methods, infinite swapping, and the calculation of generalized averages. <i>Journal of Chemical Physics</i> , 2017, 146, 134111.	3.0	1
28	MONTE CARLO METHODS IN CHEMISTRY: A TUTORIAL. , 1998, , 529-579.		0
29	Monte Carlo Method for Real-Time Path Integration. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	0