

Jan Urbik

List of Publications by Year in descending order

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37
papers

484
citations

687363

13
h-index

677142

22
g-index

38
all docs

38
docs citations

38
times ranked

175
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion quantum Monte Carlo calculation of nondifferential properties for atomic ground states. <i>Journal of Chemical Physics</i> , 1997, 107, 8525-8535.	3.0	55
2	Reliable diffusion quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 1988, 89, 3629-3637.	3.0	51
3	Infinitesimal differential diffusion quantum Monte Carlo: Diatomic molecular properties. <i>Journal of Chemical Physics</i> , 1990, 92, 1221-1227.	3.0	42
4	Quadratic accuracy diffusion Monte Carlo. <i>Journal of Computational Physics</i> , 1986, 63, 130-139.	3.8	36
5	Infinitesimal differential diffusion quantum Monte Carlo study of CuH spectroscopic constants. <i>Journal of Chemical Physics</i> , 1993, 98, 6401-6405.	3.0	33
6	Sampling the exact electron distribution by diffusion quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 1988, 89, 4880-4884.	3.0	31
7	Infinitesimal differential diffusion quantum Monte Carlo study of diatomic vibrational frequencies. <i>Journal of Chemical Physics</i> , 1992, 96, 2071-2076.	3.0	28
8	Optimization of quantum Monte Carlo wavefunctions using analytical derivatives. <i>Canadian Journal of Chemistry</i> , 1992, 70, 366-371.	1.1	24
9	Estimating the relativistic energy by diffusion quantum Monte Carlo. <i>Journal of Chemical Physics</i> , 1988, 88, 3784-3787.	3.0	23
10	Optimal spacing and weights in diffusion monte carlo. <i>International Journal of Quantum Chemistry</i> , 1986, 29, 461-468.	2.0	17
11	Time step error in diffusion Monte Carlo simulations: An empirical study. <i>Journal of Computational Chemistry</i> , 1987, 8, 412-419.	3.3	17
12	Statistical error of diffusion Monte Carlo. <i>Journal of Computational Physics</i> , 1988, 74, 127-142.	3.8	14
13	Population moments of sampling distributions. <i>Computational Statistics</i> , 2005, 20, 611-621.	1.5	13
14	Zonal-Harmonics Perturbations. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2005, 91, 217-237.	1.4	9
15	Stratigraphic analysis and the asymptotic distribution of the coefficient of cross-association. <i>Journal of the International Association for Mathematical Geology</i> , 1982, 14, 11-36.	0.8	8
16	A Greenâ€™s function used in diffusion Monte Carlo. <i>Journal of Chemical Physics</i> , 1987, 87, 1902-1903.	3.0	8
17	Reply to â€”Comment on: â€”Sampling the exact electron distribution by diffusion quantum Monte Carloâ€” <i>Journal of Chemical Physics</i> , 1990, 92, 2120-2120.	3.0	7
18	A method for relativistic variational Monte Carlo calculations. <i>Chemical Physics Letters</i> , 1992, 190, 413-416.	2.6	7

#	ARTICLE	IF	CITATIONS
19	Chain sliding off a table. American Journal of Physics, 1993, 61, 258-261.	0.7	5
20	A novel solution to Kepler's problem. European Journal of Physics, 2003, 24, 575-583.	0.6	5
21	Resonance formation of Kirkwood gaps and asteroid clusters. Journal of Physics A, 1996, 29, 3311-3316.	1.6	4
22	Solving Lunar problem via perturbed K-S equation. New Astronomy, 2006, 11, 366-373.	1.8	4
23	Towards a field-free quantum Monte Carlo approach to polarizabilities of excited states: Application to the n=2 hydrogen atom. Chemical Physics Letters, 2007, 445, 345-349.	2.6	4
24	Two-body perturbed problem revisited. Canadian Journal of Physics, 1995, 73, 193-198.	1.1	2
25	Novel Analysis of Tadpole and Horseshoe Orbits. Celestial Mechanics and Dynamical Astronomy, 1997, 69, 283-291.	1.4	2
26	ITERATIVE SOLUTION TO PERTURBED KEPLER PROBLEM VIA KUSTAANHEIMO-STIEFEL EQUATION. Celestial Mechanics and Dynamical Astronomy, 1998, 71, 273-287.	1.4	2
27	Perturbative solution of the motion of an asteroid in resonance with Jupiter. Monthly Notices of the Royal Astronomical Society, 2000, 316, 459-463.	4.4	2
28	Quaternionic Processor. Celestial Mechanics and Dynamical Astronomy, 2001, 80, 111-118.	1.4	2
29	Kepler problem with time-dependent and resonant perturbations. Journal of Mathematical Physics, 2007, 48, 052701.	1.1	2
30	Monte Carlo computation of ground-state energy derivatives. International Journal of Quantum Chemistry, 2008, 108, 493-502.	2.0	2
31	Note: A pure-sampling quantum Monte Carlo algorithm with independent Metropolis. Journal of Chemical Physics, 2016, 145, 026101.	3.0	2
32	Confidence Regions Based on Edgeworth Expansion. Communications in Statistics Part B: Simulation and Computation, 2009, 38, 1004-1018.	1.2	1
33	Test of independence by repeated matching of stratigraphic sections. Journal of the International Association for Mathematical Geology, 1983, 15, 427-444.	0.8	0
34	Asymptotic distribution of the coefficient of cross-association based on a simple Markov-chain model. Journal of Applied Probability, 1985, 22, 946-950.	0.7	0
35	Asymptotic distribution of the coefficient of cross-association based on a simple Markov-chain model. Journal of Applied Probability, 1985, 22, 946-950.	0.7	0
36	Simple Simulation of Solar System. Astrophysics and Space Science, 1999, 266, 557-567.	1.4	0

#	ARTICLE	IF	CITATIONS
37	Moments of AR(1)-Model Estimators. Communications in Statistics Part B: Simulation and Computation, 2005, 34, 595-600.	1.2	0