David Ceperley

List of Publications by Year in descending order

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196 papers	31,504 citations	12303 69 h-index	4101 175 g-index
201 all docs	201 docs citations	201 times ranked	12885 citing authors

#	Article	IF	Citations
1	Phonons of metallic hydrogen with quantum Monte Carlo. Journal of Chemical Physics, 2022, 156, 044108.	1.2	6
2	Berni Julian Alder, theoretical physicist and inventor of molecular dynamics, 1925â€“2020. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	2
3	Direct observation of the momentum distribution and renormalization factor in lithium. Physical Review B, 2020, 101, .	1.1	9
4	Electronic energy gap closure and metal-insulator transition in dense liquid hydrogen. Physical Review B, 2020, 102, .	1.1	13
5	Quantum Monte Carlo determination of the principal Hugoniot of deuterium. Physical Review B, 2020, 102, .	1.1	3
6	Energy Gap Closure of Crystalline Molecular Hydrogen with Pressure. Physical Review Letters, 2020, 124, 116401.	2.9	24
7	Electronic band gaps from quantum Monte Carlo methods. Physical Review B, 2020, 101, .	1.1	26
8	Quantum Monte Carlo Compton profiles of solid and liquid lithium. Physical Review B, 2020, 101, .	1.1	10
9	Electronic structure and optical properties of quantum crystals from first principles calculations in the Bornâ€“Oppenheimer approximation. Journal of Chemical Physics, 2020, 153, 234117.	1.2	6
10	Berni Alder (1925â€“2020). Nature, 2020, 586, 356-356.	13.7	1
11	Optical properties of high-pressure fluid hydrogen across molecular dissociation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9770-9774.	3.3	28
12	Benchmarking vdWâ€DF firstâ€principles predictions against Coupled Electronâ€“Ion Monte Carlo for highâ€pressure liquid hydrogen. Contributions To Plasma Physics, 2019, 59, e201800185.	0.5	11
13	Local structure in dense hydrogen at the liquidâ€“liquid phase transition by coupled electronâ€“ion Monte Carlo. Contributions To Plasma Physics, 2018, 58, 99-106.	0.5	21
14	Coupled electron-ion Monte Carlo simulation of hydrogen molecular crystals. Journal of Chemical Physics, 2018, 148, 102314.	1.2	38
15	Electron localization properties in high pressure hydrogen at the liquid-liquid phase transition by Coupled Electron-Ion Monte Carlo. Journal of Physics: Conference Series, 2018, 1136, 012005.	0.3	6
16	Preface: Special Topic on Nuclear Quantum Effects. Journal of Chemical Physics, 2018, 148, 102001.	1.2	5
17	<tt>QMCPACK</tt>: an open sourceab initioquantum Monte Carlo package for the electronic structure of atoms, molecules and solids. Journal of Physics Condensed Matter, 2018, 30, 195901.	0.7	187
18	Properties of the superfluid in the disordered Bose-Hubbard model. Physical Review A, 2018, 98, .	1.0	8

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19	Towards the Solution of the Many-Electron Problem in Real Materials: Equation of State of the Hydrogen Chain with State-of-the-Art Many-Body Methods. Physical Review X, 2017, 7, .	2.8	171
20	Liquidâ€“liquid phase transition in hydrogen by coupled electronâ€“ion Monte Carlo simulations. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4953-4957.	3.3	91
21	Theory of finite size effects for electronic quantum Monte Carlo calculations of liquids and solids. Physical Review B, 2016, 94, .	1.1	79
22	Benchmarking density functionals for hydrogen-helium mixtures with quantum Monte Carlo: Energetics, pressures, and forces. Physical Review B, 2016, 93, .	1.1	34
23	Probing the Bose glassâ€“superfluid transition using quantum quenches of disorder. Nature Physics, 2016, 12, 646-649.	6.5	70
24	Molecular-Atomic Transition along the Deuterium Hugoniot Curve with Coupled Electron-Ion Monte Carlo Simulations. Physical Review Letters, 2015, 115, 045301.	2.9	35
25	The transition to the metallic state in low density hydrogen. Journal of Chemical Physics, 2015, 143, 194703.	1.2	1
26	Metastable Bose-Einstein condensation in a strongly correlated optical lattice. Physical Review A, 2015, 91, .	1.0	8
27	How large are nonadiabatic effects in atomic and diatomic systems?. Journal of Chemical Physics, 2015, 143, 124308.	1.2	13
28	First Principles Methods: A Perspective from Quantum Monte Carlo. Entropy, 2014, 16, 287-321.	1.1	33
29	Benchmarking exchange-correlation functionals for hydrogen at high pressures using quantum Monte Carlo. Physical Review B, 2014, 89, .	1.1	72
30	Beyond the Born-Oppenheimer approximation with quantum Monte Carlo methods. Physical Review A, 2014, 90, .	1.0	29
31	Quantum Monte Carlo Benchmark of Exchange-Correlation Functionals for Bulk Water. Journal of Chemical Theory and Computation, 2014, 10, 2355-2362.	2.3	39
32	Path-Integral MonteÂCarlo Simulation of the Warm Dense Homogeneous Electron Gas. Physical Review Letters, 2013, 110, 146405.	2.9	177
33	Quantum energy density: Improved efficiency for quantum Monte Carlo calculations. Physical Review B, 2013, 88, .	1.1	7
34	Nuclear Quantum Effects and Nonlocal Exchange-Correlation Functionals Applied to Liquid Hydrogen at High Pressure. Physical Review Letters, 2013, 110, 065702.	2.9	150
35	Revealing the condensate and noncondensate distributions in the inhomogeneous Bose-Hubbard model. Physical Review A, 2013, 87, .	1.0	5
36	Towards a predictive first-principles description of solid molecular hydrogen with density functional theory. Physical Review B, 2013, 87, .	1.1	75

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37	Electronic energy functionals: Levyâ€“Lieb principle within the ground state path integral quantum Monte Carlo. International Journal of Quantum Chemistry, 2013, 113, 155-160.	1.0	9
38	Hybrid algorithms in quantum Monte Carlo. Journal of Physics: Conference Series, 2012, 402, 012008.	0.3	62
39	The properties of hydrogen and helium under extreme conditions. Reviews of Modern Physics, 2012, 84, 1607-1653.	16.4	425
40	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>4</mml:mn></mml:msup></mml:math>He adsorption on a single graphene sheet: Path-integral Monte Carlo study. Physical Review B, 2012, 85, .	1.1	42
41	Few-body reference data for multicomponent formalisms: Light-nuclei molecules. Physical Review A, 2012, 86, .	1.0	12
42	Population Control Bias with Applications to Parallel Diffusion Monte Carlo. ACS Symposium Series, 2012, , 13-26.	0.5	3
43	Accelerating Quantum Monte Carlo Simulations of Real Materials on GPU Clusters. Computing in Science and Engineering, 2012, 14, 40-51.	1.2	62
44	Free energy methods in coupled electron ion Monte Carlo. Molecular Physics, 2011, 109, 3029-3036.	0.8	20
45	Path Integral Monte Carlo Study of ⁴He Clusters Doped with Alkali and Alkali-Earth Ions. Journal of Physical Chemistry A, 2011, 115, 7300-7309.	1.1	44
46	High-temperature superconductivity in atomic metallic hydrogen. Physical Review B, 2011, 84, .	1.1	149
47	Ground-State Structures of Atomic Metallic Hydrogen. Physical Review Letters, 2011, 106, 165302.	2.9	155
48	Improved Scaling for Quantum Monte Carlo on Insulators. SIAM Journal of Scientific Computing, 2011, 33, 1837-1859.	1.3	10
49	Liquid-solid transition in fully ionized hydrogen at ultra-high pressures. Journal of Chemical Physics, 2011, 134, 184505.	1.2	13
50	Effect of long cyclic exchanges on the magnetic properties of bcc3He. Physical Review B, 2011, 84, .	1.1	5
51	Momentum Distribution of the Homogeneous Electron Gas. Physical Review Letters, 2011, 107, 110402.	2.9	64
52	Superfluid-insulator transition in the disordered two-dimensional Bose-Hubbard model. Physical Review B, 2011, 84, .	1.1	35
53	The structure of para-hydrogen clusters. European Physical Journal D, 2010, 56, 353-358.	0.6	30
54	Momentum Distribution and Renormalization Factor in Sodium and the Electron Gas. Physical Review Letters, 2010, 105, 086403.	2.9	65

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55	Itinerant ferromagnetism in a Fermi gas with contact interaction: Magnetic properties in a dilute Hubbard model. Physical Review A, 2010, 82, .	1.0	22
56	Construction of localized wave functions for a disordered optical lattice and analysis of the resulting Hubbard model parameters. Physical Review A, 2010, 81, .	1.0	28
57	Why are para-hydrogen clusters superfluid? A quantum theorem of corresponding states study. Journal of Chemical Physics, 2010, 133, 064505.	1.2	21
58	Equation of state of metallic hydrogen from coupled electron-ion Monte Carlo simulations. Physical Review E, 2010, 81, 021202.	0.8	69
59	Evidence for a first-order liquid-liquid transition in high-pressure hydrogen from ab initio simulations. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12799-12803.	3.3	217
60	Renormalization factor and effective mass of the two-dimensional electron gas. Physical Review B, 2009, 79, .	1.1	40
61	Electrical Conductivity of High-Pressure Liquid Hydrogen by Quantum MonteÂCarlo Methods. Physical Review Letters, 2009, 103, 256401.	2.9	30
62	Phase separation in hydrogenâ€“helium mixtures at Mbar pressures. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1324-1329.	3.3	107
63	Trial wave functions for high-pressure metallic hydrogen. Computer Physics Communications, 2008, 179, 89-97.	3.0	21
64	Path integral calculations of vacancies in solid Helium. Computer Physics Communications, 2008, 179, 82-88.	3.0	26
65	Hartree-Fock Ground State of the Three-Dimensional Electron Gas. Physical Review Letters, 2008, 100, 236404.	2.9	32
66	PROGRESS IN COUPLED ELECTRON-ION MONTE CARLO SIMULATIONS OF HIGH-PRESSURE HYDROGEN. , 2008, , .		0
67	PATH INTEGRALS AND SUPERSOLIDS. , 2008, , .		0
68	Random Number Generators for Parallel Applications. Advances in Chemical Physics, 2007, , 13-36.	0.3	17
69	Interplay between Magic Number Stabilities and Superfluidity of Small Parahydrogen Clusters. Physical Review Letters, 2007, 98, 183401.	2.9	78
70	Pairing and superfluid properties of dilute fermion gases at unitarity. Physical Review B, 2007, 76, .	1.1	60
71	Quantum Monte Carlo Methods in Chemistry. Advances in Chemical Physics, 2007, , 1-38.	0.3	57
72	Supersolid: crystal or plastic?. Nature Physics, 2006, 2, 659-660.	6.5	16

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73	Off-Diagonal Long-Range Order in SolidHe4. Physical Review Letters, 2006, 96, 105302.	2.9	107
74	Many-body wavefunctions for normal liquidHe3. Physical Review B, 2006, 74, .	1.1	31
75	Quantum MonteÂCarlo Simulation of the High-Pressure Molecular-Atomic Crossover in Fluid Hydrogen. Physical Review Letters, 2006, 97, 235702.	2.9	62
76	Computational Methods in Coupled Electron-Ion Monte Carlo Simulations. ChemPhysChem, 2005, 6, 1872-1878.	1.0	33
77	Coupled Electronâ€“Ion Monte Carlo calculations of atomic hydrogen. Computer Physics Communications, 2005, 169, 421-425.	3.0	4
78	Superfluidity of DenseHe4in Vycor. Physical Review Letters, 2005, 95, 185301.	2.9	44
79	Accurate, Efficient, and Simple Forces Computed with Quantum Monte Carlo Methods. Physical Review Letters, 2005, 94, 036404.	2.9	41
80	Multi-spin exchange model: the near melting transition of the two-dimensional Wigner crystal. Journal of Physics Condensed Matter, 2004, 16, S701-S707.	0.7	4
81	Coupled Electron-Ion Monte Carlo Calculations of Dense Metallic Hydrogen. Physical Review Letters, 2004, 93, 146402.	2.9	76
82	Ring Exchanges and the Supersolid Phase ofHe4. Physical Review Letters, 2004, 93, 155303.	2.9	138
83	Testing parallel random number generators. Parallel Computing, 2003, 29, 69-94.	1.3	67
84	Backflow correlations for the electron gas and metallic hydrogen. Physical Review E, 2003, 68, 046707.	0.8	94
85	The polarization energy of normal liquid3He. Molecular Physics, 2003, 101, 1705-1711.	0.8	11
86	Two-dimensionalH2clusters:â€,â€,A path-integral Monte Carlo study. Physical Review B, 2002, 65, .	1.1	22
87	Exchange frequencies in two-dimensional solids. Journal of Physics Condensed Matter, 2002, 14, 9099-9107.	0.7	3
88	WHAT DO WE KNOW ABOUT WAVE FUNCTION NODES?. Recent Advances in Computational, 2002, , 3-11.	0.8	11
89	The Coupled Electronic-Ionic Monte Carlo Simulation Method. Lecture Notes in Physics, 2002, , 473-500.	0.3	11
90	Fermionic Path Integral Simulation of Dense Hydrogen. , 2002, , 357-360.		0

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91	Twist-averaged boundary conditions in continuum quantum Monte Carlo algorithms. Physical Review E, 2001, 64, 016702.	0.8	285
92	Single and Paired Point Defects in a 2D Wigner Crystal. Physical Review Letters, 2001, 86, 492-495.	2.9	18
93	Path integral Monte Carlo applications to quantum fluids in confined geometries. Journal of Chemical Physics, 2001, 115, 10111.	1.2	35
94	Calculation of a Deuterium Double Shock Hugoniot fromAb InitioSimulations. Physical Review Letters, 2001, 87, 275502.	2.9	89
95	Simulation of Flux Lines with Columnar Pins: Bose Glass and Entangled Liquids. Physical Review Letters, 2001, 86, 4092-4095.	2.9	32
96	Exchange Frequencies in the 2D Wigner Crystal. Physical Review Letters, 2001, 86, 870-873.	2.9	70
97	Debye-Waller factor in solid3Heand4He. Physical Review B, 2000, 61, 12094-12100.	1.1	39
98	Path Integral Monte Carlo Calculation of the Deuterium Hugoniot. Physical Review Letters, 2000, 85, 1890-1893.	2.9	247
99	Effect of Disorder on the Critical Temperature of a Dilute Hard-Sphere Gas. Physical Review Letters, 2000, 85, 4735-4738.	2.9	21
100	Path-integral Monte Carlo simulation of helium at negative pressures. Physical Review B, 2000, 61, 9055-9060.	1.1	37
101	Spectrum of neutral helium in strong magnetic fields. Physical Review A, 1999, 59, 2875-2885.	1.0	43
102	Effects of the presence of Cs impurities on the two-dimensional4Hephase diagram. Physical Review B, 1999, 59, 8416-8419.	1.1	1
103	Quantum Monte Carlo calculation of Compton profiles of solid lithium. Physical Review B, 1999, 59, 7907-7916.	1.1	38
104	Electronic Properties and Mid-Infrared Transitions in Self-Assembled Quantum Dots. Japanese Journal of Applied Physics, 1999, 38, 357-365.	0.8	3
105	Return of the itinerant electron. Nature, 1999, 397, 386-387.	13.7	77
106	Electronic structure and many-body effects in self-assembled quantum dots. Journal of Physics Condensed Matter, 1999, 11, 5953-5967.	0.7	6
107	The penalty method for random walks with uncertain energies. Journal of Chemical Physics, 1999, 110, 9812-9820.	1.2	67
108	Response to â€œComment on â€˜A comparison of the efficiency of Fourier- and discrete time-path integral Monte Carloâ€™â€Šâ€•[J. Chem. Phys.111, 7685 (1999)]. Journal of Chemical Physics, 1999, 111, 7687-7687.	1.2	7

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109	Static Response of Homogeneous Quantum Fluids by Diffusion Monte Carlo. , 1999, , 183-212.		1
110	A comparison of the efficiency of Fourier- and discrete time-path integral Monte Carlo. Journal of Chemical Physics, 1998, 109, 2123-2134.	1.2	72
111	Effects of backflow correlation in the three-dimensional electron gas: Quantum Monte Carlo study. Physical Review B, 1998, 58, 6800-6806.	1.1	206
112	Path integral Monte Carlo calculation of electronic forces. Physical Review E, 1998, 58, 5123-5130.	0.8	9
113	Path-integral calculation of the two-dimensional4Hephase diagram. Physical Review B, 1998, 58, 6447-6454.	1.1	59
114	Path-integral Monte Carlo calculation of the kinetic energy of condensed lithium. Physical Review B, 1998, 57, 252-257.	1.1	11
115	Superfluid helium as a vacuum. Physics World, 1998, 11, 19-19.	0.0	4
116	Superfluidity inH2Films. Physical Review Letters, 1997, 79, 3010-3013.	2.9	60
117	Released-phase quantum Monte Carlo method. Physical Review E, 1997, 55, 6202-6210.	0.8	54
118	Critical Temperature of Bose-Einstein Condensation of Hard-Sphere Gases. Physical Review Letters, 1997, 79, 3549-3552.	2.9	154
119	Many-body approaches to atoms and molecules in external magnetic fields. International Journal of Quantum Chemistry, 1997, 64, 523-552.	1.0	20
120	Molecular Dissociation in Hot, Dense Hydrogen. Physical Review Letters, 1996, 76, 1240-1243.	2.9	215
121	Crystallization of the One-Component Plasma at Finite Temperature. Physical Review Letters, 1996, 76, 4572-4575.	2.9	115
122	Path integral Monte Carlo study of SF6â€doped helium clusters. Journal of Chemical Physics, 1996, 104, 2341-2348.	1.2	89
123	Density fluctuations in liquid4He. Path integrals and maximum entropy. Journal of Low Temperature Physics, 1996, 104, 339-357.	0.6	89
124	Path integral Monte Carlo simulations of the melting of molecular hydrogen surfaces. Journal of Low Temperature Physics, 1996, 102, 275-305.	0.6	27
125	Kinetic Energy of Liquid and Solid4He. Physical Review Letters, 1996, 77, 115-118.	2.9	61
126	Hartree-Fock studies of atoms in strong magnetic fields. Physical Review A, 1996, 54, 219-231.	1.0	77

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127	Transient-estimate Monte Carlo in the two-dimensional electron gas. Physical Review B, 1996, 53, 7376-7382.	1.1	33
128	Diffusion Monte Carlo study of jellium surfaces: Electronic densities and pair correlation functions. Physical Review B, 1996, 54, 17199-17207.	1.1	43
129	Direct measurements and path integral Monte Carlo calculations of kinetic energies of solid neon. Journal of Physics Condensed Matter, 1996, 8, 6665-6684.	0.7	30
130	An Optimized Method for Treating Long-Range Potentials. Journal of Computational Physics, 1995, 117, 171-178.	1.9	62
131	Path integrals in the theory of condensed helium. Reviews of Modern Physics, 1995, 67, 279-355.	16.4	2,011
132	Path Integral Monte Carlo Simulation of Isotopic Liquid Helium Mixtures. Physical Review Letters, 1995, 74, 2288-2291.	2.9	94
133	Proof for an upper bound in fixed-node Monte Carlo for lattice fermions. Physical Review B, 1995, 51, 13039-13045.	1.1	94
134	Static Response and Local Field Factor of the Electron Gas. Physical Review Letters, 1995, 75, 689-692.	2.9	255
135	Core Structure of a Vortex in SuperfluidHe4. Physical Review Letters, 1995, 75, 4642-4645.	2.9	47
136	Crystal Structure of Molecular Hydrogen at High Pressure. Physical Review Letters, 1995, 74, 1601-1604.	2.9	92
137	Ground state of a hydrogen molecule in superstrong magnetic fields. Physical Review A, 1995, 52, R3405-R3408.	1.0	38
138	Isotopic shift of helium melting pressure: Path integral Monte Carlo study. Physical Review Letters, 1994, 72, 1854-1857.	2.9	48
139	Quantum Monte Carlo calculation of the Fermi-liquid parameters in the two-dimensional electron gas. Physical Review B, 1994, 50, 1684-1694.	1.1	116
140	Generation of pseudopotentials from correlated wave functions. Journal of Chemical Physics, 1994, 100, 8169-8177.	1.2	23
141	Ground-State Properties of the Two-Dimensional Bose Coulomb Liquid. Physical Review Letters, 1994, 73, 826-829.	2.9	43
142	Path integral monte carlo simulations of H2 surfaces. Journal of Low Temperature Physics, 1994, 94, 161-183.	0.6	45
143	Path integral monte carlo simulations of thin4He films on a H2 surface. Journal of Low Temperature Physics, 1994, 94, 185-217.	0.6	43
144	Equation of State of the Hydrogen Plasma by Path Integral Monte Carlo Simulation. Physical Review Letters, 1994, 73, 2145-2149.	2.9	153

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145	Molecular dynamics in dense hydrogen. Physical Review Letters, 1993, 71, 541-544.	2.9	103
146	New stochastic method for systems with broken time-reversal symmetry: 2D fermions in a magnetic field. Physical Review Letters, 1993, 71, 2777-2780.	2.9	139
147	Comment on â€˜â€˜Feynman-Kac path-integral calculation of the ground-state energies of atomsâ€™â€™. Physical Review Letters, 1993, 71, 2159-2159.	2.9	10
148	Crystal structure of atomic hydrogen. Physical Review Letters, 1993, 70, 1952-1955.	2.9	126
149	Effects of three-body and backflow correlations in the two-dimensional electron gas. Physical Review B, 1993, 48, 12037-12046.	1.1	137
150	Ground state of two-dimensional Yukawa bosons: Applications to vortex melting. Physical Review B, 1993, 48, 411-417.	1.1	33
151	Neutron and PIMC Determination of the Longitudinal Momentum Distribution of HCP, BCC and Normal Liquid 4 Het. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1993, 48, 433-437.	0.7	28
152	Quantum Monte-Carlo Calculations on Real Materials. Springer Series in Solid-state Sciences, 1993, , 191-200.	0.3	1
153	Greenâ€™s-function quantum Monte Carlo study of a jellium surface. Physical Review B, 1992, 45, 6124-6130.	1.1	30
154	Static response from quantum Monte Carlo calculations. Physical Review Letters, 1992, 69, 1837-1840.	2.9	131
155	Path-integral calculations of normal liquidHe3. Physical Review Letters, 1992, 69, 331-334.	2.9	127
156	A Bayesian analysis of Greenâ€™s function Monte Carlo correlation functions. Journal of Chemical Physics, 1992, 97, 8415-8423.	1.2	43
157	Nonlocal pseudopotentials and diffusion Monte Carlo. Journal of Chemical Physics, 1991, 95, 3467-3475.	1.2	267
158	Cohesive energy of silicon by the Greenâ€™s-function Monte Carlo method. Physical Review B, 1991, 44, 10929-10932.	1.1	60
159	Fermion nodes. Journal of Statistical Physics, 1991, 63, 1237-1267.	0.5	304
160	LanczÃ³s-Type Algorithm for Quantum Monte Carlo Data. Europhysics Letters, 1991, 16, 249-254.	0.7	23
161	Superfluidity in clusters ofp-H2molecules. Physical Review Letters, 1991, 67, 1871-1874.	2.9	217
162	Superfluid-insulator transition in disordered boson systems. Physical Review Letters, 1991, 67, 2307-2310.	2.9	268

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163	Role of forms of exchange and correlation used in generating pseudopotentials. Physical Review B, 1990, 42, 5057-5066.	1.1	26
164	The calculation of excited states with quantum Monte Carlo. II. Vibrational excited states. Journal of Chemical Physics, 1990, 93, 552-561.	1.2	91
165	Ground-state correlations of quantum antiferromagnets: A Green-function Monte Carlo study. Physical Review B, 1990, 41, 4552-4569.	1.1	215
166	Numerical Simulations in Superfluid Helium. Physica Scripta, 1990, T33, 11-11.	1.2	0
167	Path-integral simulation of the superfluid transition in two-dimensionalHe4. Physical Review B, 1989, 39, 2084-2093.	1.1	127
168	Green-function Monte Carlo study of quantum antiferromagnets. Physical Review B, 1989, 40, 2737-2740.	1.1	125
169	Path-integral Monte Carlo study of low-temperatureHe4clusters. Physical Review Letters, 1989, 63, 1601-1604.	2.9	269
170	The dissociation energy of He2+. Chemical Physics Letters, 1989, 160, 183-188.	1.2	36
171	Novel pseudo-Hamiltonian for quantum Monte Carlo simulations. Physical Review Letters, 1989, 62, 2088-2091.	2.9	154
172	Ground state of the two-dimensional electron gas. Physical Review B, 1989, 39, 5005-5016.	1.1	905
173	The calculation of excited state properties with quantum Monte Carlo. Journal of Chemical Physics, 1988, 89, 6316-6328.	1.2	137
174	The momentum distribution of normal and superfluid liquid ⁴He. Canadian Journal of Physics, 1987, 65, 1416-1420.	0.4	85
175	Path-integral computation of superfluid densities. Physical Review B, 1987, 36, 8343-8352.	1.1	578
176	Calculation of exchange frequencies in bccHe3with the path-integral Monte Carlo method. Physical Review Letters, 1987, 58, 1648-1651.	2.9	180
177	Ground state of solid hydrogen at high pressures. Physical Review B, 1987, 36, 2092-2106.	1.1	244
178	The statistical error of green's function Monte Carlo. Journal of Statistical Physics, 1986, 43, 815-826.	0.5	106
179	The He2 potential at small distances. Journal of Chemical Physics, 1986, 84, 820-821.	1.2	98
180	Path-integral computation of the low-temperature properties of liquidHe4. Physical Review Letters, 1986, 56, 351-354.	2.9	368

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181	Quantum Many-Body Problems. Topics in Current Physics, 1986, , 145-194.	0.5	20
182	Quantum mechanical simulation of liquids. Accounts of Chemical Research, 1985, 18, 268-273.	7.6	9
183	Quantum Monte Carlo for molecules: Greenâ€™s function and nodal release. Journal of Chemical Physics, 1984, 81, 5833-5844.	1.2	266
184	Simulation of quantum many-body systems by path-integral methods. Physical Review B, 1984, 30, 2555-2568.	1.1	437
185	Investigations of model polymers: Dynamics of melts and statics of a long chain in a dilute melt of shorter chains. Journal of Chemical Physics, 1982, 76, 1557-1563.	1.2	43
186		1.2	970
187	The stochastic solution of the many-body Schroedinger equation for fermions. Lecture Notes in Physics, 1981, , 262-269.	0.3	8
188	Computer simulation of the static and dynamic properties of a polymer chain. Macromolecules, 1981, 14, 1472-1479.	2.2	40
189	Investigations of static properties of twoâ€dimensional bulk polymer systems. Journal of Chemical Physics, 1981, 75, 5538-5542.	1.2	24
190	Ground State of the Electron Gas by a Stochastic Method. Physical Review Letters, 1980, 45, 566-569.	2.9	13,000
191	Properties of the hcp phase of ^{4}He. Physical Review B, 1980, 21, 999-1002.	1.1	16
192	Investigations of static properties of model bulk polymer fluids. Journal of Chemical Physics, 1980, 72, 3228-3235.	1.2	70
193	Properties of liquid and solidHe4. Physical Review B, 1979, 19, 5598-5633.	1.1	248
194	Computer Simulation of the Dynamics of a Single Polymer Chain. Physical Review Letters, 1978, 41, 313-316.	2.9	88
195	Perturbation approach to the classical one-component plasma. Physical Review A, 1977, 15, 755-764.	1.0	54
196	Exact calculations of the ground state of model neutron matter. Physical Review D, 1976, 13, 3208-3213.	1.6	22