James S Spencer

List of Publications by Year
in descending order

20 papers	1,336 citations	471509 17 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	1748 citing authors

#	Article	IF	Citations
1	The khmer software package: enabling efficient nucleotide sequence analysis. F1000Research, 2015, 4, 900.	1.6	362
2	Natural Orbitals for Wave Function Based Correlated Calculations Using a Plane Wave Basis Set. Journal of Chemical Theory and Computation, 2011, 7, 2780-2785.	5.3	117
3	Efficient calculation of the exact exchange energy in periodic systems using a truncated Coulomb potential. Physical Review B, 2008, 77, .	3.2	108
4	The sign problem and population dynamics in the full configuration interaction quantum Monte Carlo method. Journal of Chemical Physics, 2012, 136, 054110.	3.0	88
5	Accurate Exchange-Correlation Energies for the Warm Dense Electron Gas. Physical Review Letters, 2016, 117, 115701.	7.8	88
6	Density-matrix quantum Monte Carlo method. Physical Review B, 2014, 89, .	3.2	84
7	Semi-stochastic full configuration interaction quantum Monte Carlo: Developments and application. Journal of Chemical Physics, 2015, 142, 184107.	3.0	83
8	Interaction picture density matrix quantum Monte Carlo. Journal of Chemical Physics, 2015, 143, 044116.	3.0	69
9	Linear-scaling time-dependent density-functional theory in the linear response formalism. Journal of Chemical Physics, 2013, 139, 064104.	3.0	59
10	Dispersion interactions between semiconducting wires. Physical Review B, 2010, 82, .	3.2	51
11	Developments in stochastic coupled cluster theory: The initiator approximation and application to the uniform electron gas. Journal of Chemical Physics, 2016, 144, 084108.	3.0	40
12	The HANDE-QMC Project: Open-Source Stochastic Quantum Chemistry from the Ground State Up. Journal of Chemical Theory and Computation, 2019, 15, 1728-1742.	5.3	33
13	Sign problem in full configuration interaction quantum Monte Carlo: Linear and sublinear representation regimes for the exact wave function. Physical Review B, 2014, 90, .	3.2	31
14	Linked coupled cluster Monte Carlo. Journal of Chemical Physics, 2016, 144, 044111.	3.0	27
15	The effect of quantization on the full configuration interaction quantum Monte Carlo sign problem. Journal of Chemical Physics, 2013, 138, 024110.	3.0	25
16	Open-Source Development Experiences in Scientific Software: The HANDE Quantum Monte Carlo Project. Journal of Open Research Software, 2015, 3, 9.	5.9	21
17	Minimising biases in full configuration interaction quantum Monte Carlo. Journal of Chemical Physics, 2015, 142, 104101.	3.0	18
18	Large scale parallelization in stochastic coupled cluster. Journal of Chemical Physics, 2018, 149, 204103.	3.0	15

#	Article	IF	Citations
19	Understanding and improving the efficiency of full configuration interaction quantum Monte Carlo. Journal of Chemical Physics, 2016, 144, 094110.	3.0	12
20	Accelerated simulations of aromatic polymers: application to polyether ether ketone (PEEK). Molecular Physics, 2014, 112, 2672-2680.	1.7	5