

Andrew M Teale

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62
papers

2,430
citations

23
h-index

48
g-index

67
ext. papers

2,765
ext. citations

3.7
avg. IF

4.8
L-index

#	Paper	IF	Citations
62	Robust All-Electron Optimization in Orbital-Free Density-Functional Theory Using the Trust-Region Image Method. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 459-475	2.8	0
61	Optimizing Molecular Geometries in Strong Magnetic Fields. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 2166-2185	6.4	14
60	Modeling Ultrafast Electron Dynamics in Strong Magnetic Fields Using Real-Time Time-Dependent Electronic Structure Methods. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 2137-2165	6.4	7
59	Self-Consistent Field Methods for Excited States in Strong Magnetic Fields: a Comparison between Energy- and Variance-Based Approaches. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 5492-5508	6.4	6
58	Topological Analysis of Magnetically Induced Current Densities in Strong Magnetic Fields Using Stagnation Graphs. <i>Chemistry</i> , 2021 , 3, 916-934	2.1	4
57	Structural and electronic studies of substituted m-terphenyl lithium complexes. <i>Dalton Transactions</i> , 2021 , 50, 722-728	4.3	1
56	Analyzing Magnetically Induced Currents in Molecular Systems Using Current-Density-Functional Theory. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1321-1333	2.8	18
55	New density-functional approximations and beyond: general discussion. <i>Faraday Discussions</i> , 2020 , 224, 166-200	3.6	1
54	New approaches to study excited states in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020 , 224, 483-508	3.6	2
53	GW quasiparticle energies of atoms in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2019 , 150, 214112	3.9	10
52	Kohn-Sham energy decomposition for molecules in a magnetic field. <i>Molecular Physics</i> , 2019 , 117, 97-109	1.7	12
51	Excitation energies from Górling-Lévy perturbation theory along the range-separated adiabatic connection. <i>Molecular Physics</i> , 2018 , 116, 1443-1451	1.7	4
50	Uniform magnetic fields in density-functional theory. <i>Journal of Chemical Physics</i> , 2018 , 148, 024101	3.9	12
49	Accelerating Kohn-Sham response theory using density fitting and the auxiliary-density-matrix method. <i>International Journal of Quantum Chemistry</i> , 2018 , 118, e25639	2.1	8
48	Interpolated energy densities, correlation indicators and lower bounds from approximations to the strong coupling limit of DFT. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6169-6183	3.6	23
47	Connections between variation principles at the interface of wave-function and density-functional theories. <i>Journal of Chemical Physics</i> , 2017 , 147, 134107	3.9	3
46	Magnetic-Field Density-Functional Theory (BDFT): Lessons from the Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 4089-4100	6.4	18

45	Efficient Calculation of Molecular Integrals over London Atomic Orbitals. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 3636-3649	6.4	22
44	Alternative Representations of the Correlation Energy in Density-Functional Theory: A Kinetic-Energy Based Adiabatic Connection. <i>Journal of the Chinese Chemical Society</i> , 2016 , 63, 121-128	1.5	4
43	Electron localisation function in current-density-functional theory. <i>Molecular Physics</i> , 2016 , 114, 1415-1427	10	
42	Exchange-Correlation Functionals via Local Interpolation along the Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 2598-610	6.4	29
41	Current Density Functional Theory Using Meta-Generalized Gradient Exchange-Correlation Functionals. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 4169-81	6.4	40
40	The importance of current contributions to shielding constants in density-functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18834-42	3.6	22
39	Calculating excitation energies by extrapolation along adiabatic connections. <i>Physical Review A</i> , 2015 , 91,	2.6	14
38	Molecular properties in the TammDancoff approximation: indirect nuclear spin-spin coupling constants. <i>Molecular Physics</i> , 2015 , 113, 1937-1951	1.7	7
37	Fractional Electron Loss in Approximate DFT and Hartree-Fock Theory. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 5262-8	6.4	33
36	The coupling constant averaged exchange-correlation energy density. <i>Molecular Physics</i> , 2015 , 1-14	1.7	7
35	Excited states from range-separated density-functional perturbation theory. <i>Molecular Physics</i> , 2015 , 113, 1740-1749	1.7	11
34	The Dalton quantum chemistry program system. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014 , 4, 269-284	7.9	956
33	A density difference based analysis of orbital-dependent exchange-correlation functionals. <i>Molecular Physics</i> , 2014 , 112, 700-710	1.7	23
32	Excitation energies along a range-separated adiabatic connection. <i>Journal of Chemical Physics</i> , 2014 , 141, 044123	3.9	17
31	Atomic electron affinities and the role of symmetry between electron addition and subtraction in a corrected Koopmans approach. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14420-34	3.6	9
30	New CHARMM force field parameters for dehydrated amino acid residues, the key to antibiotic molecular dynamics simulations. <i>RSC Advances</i> , 2014 , 4, 48621-48631	3.7	9
29	Revisiting the density scaling of the non-interacting kinetic energy. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14578-83	3.6	10
28	Differentiable but exact formulation of density-functional theory. <i>Journal of Chemical Physics</i> , 2014 , 140, 18A518	3.9	31

27	Orbital-dependent second-order scaled-opposite-spin correlation functionals in the optimized effective potential method. <i>Journal of Chemical Physics</i> , 2014 , 141, 024113	3.9	29
26	Non-perturbative calculation of molecular magnetic properties within current-density functional theory. <i>Journal of Chemical Physics</i> , 2014 , 140, 034101	3.9	43
25	Communication: Analytic gradients in the random-phase approximation. <i>Journal of Chemical Physics</i> , 2013 , 139, 081101	3.9	34
24	Benchmarking density-functional theory calculations of NMR shielding constants and spin-rotation constants using accurate coupled-cluster calculations. <i>Journal of Chemical Physics</i> , 2013 , 138, 024111	3.9	119
23	Analysis of double-hybrid density functionals along the adiabatic connection. <i>Molecular Physics</i> , 2013 , 111, 1275-1294	1.7	37
22	High accuracy ab initio studies of electron-densities for the ground state of Be-like atomic systems. <i>Journal of Chemical Physics</i> , 2013 , 138, 164306	3.9	2
21	Alternative separation of exchange and correlation energies in multi-configuration range-separated density-functional theory. <i>Journal of Chemical Physics</i> , 2013 , 139, 134113	3.9	30
20	Effective homogeneity of the exchange-correlation and non-interacting kinetic energy functionals under density scaling. <i>Journal of Chemical Physics</i> , 2012 , 136, 034101	3.9	22
19	Choice of basic variables in current-density-functional theory. <i>Physical Review A</i> , 2012 , 86,	2.6	34
18	Dispersion interactions in density-functional theory: an adiabatic-connection analysis. <i>Journal of Chemical Physics</i> , 2011 , 135, 194109	3.9	18
17	Comparing ab initio density-functional and wave function theories: the impact of correlation on the electronic density and the role of the correlation potential. <i>Journal of Chemical Physics</i> , 2011 , 135, 114111	3.9	36
16	Spin flipping in ring-coupled-cluster-doubles theory. <i>Chemical Physics Letters</i> , 2011 , 510, 147-153	2.5	41
15	Range-dependent adiabatic connections. <i>Journal of Chemical Physics</i> , 2010 , 133, 164112	3.9	29
14	Accurate calculation and modeling of the adiabatic connection in density functional theory. <i>Journal of Chemical Physics</i> , 2010 , 132, 164115	3.9	77
13	Shielding constants and chemical shifts in DFT: influence of optimized effective potential and Coulomb-attenuation. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 7179-86	2.8	16
12	Benchmarking density-functional-theory calculations of rotational g tensors and magnetizabilities using accurate coupled-cluster calculations. <i>Journal of Chemical Physics</i> , 2009 , 131, 144104	3.9	47
11	The calculation of adiabatic-connection curves from full configuration-interaction densities: two-electron systems. <i>Journal of Chemical Physics</i> , 2009 , 130, 104111	3.9	59
10	Maps of current density using density-functional methods. <i>Journal of Chemical Physics</i> , 2008 , 129, 074103	3.9	45

9	Orbital energies and negative electron affinities from density functional theory: Insight from the integer discontinuity. <i>Journal of Chemical Physics</i> , 2008 , 129, 044110	3.9	104
8	Adiabatic connection forms in density functional theory: H ₂ and the He isoelectronic series. <i>Journal of Chemical Physics</i> , 2008 , 129, 064105	3.9	20
7	Modeling the adiabatic connection in H ₂ . <i>Journal of Chemical Physics</i> , 2007 , 126, 244104	3.9	30
6	Transition metal NMR chemical shifts from optimized effective potentials. <i>Journal of Chemical Physics</i> , 2007 , 126, 074101	3.9	21
5	The intramolecular beta-fluorine...ammonium interaction in 4- and 8-membered rings. <i>Chemical Communications</i> , 2006 , 3190-2	5.8	34
4	Rotational g Tensors Calculated Using Hybrid Exchange-Correlation Functionals with the Optimized Effective Potential Approach. <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 827-34	6.4	14
3	Exchange methods in Kohn-Sham theory. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 2991-8	3.6	19
2	Ground- and excited-state diatomic bond lengths, vibrational levels, and potential-energy curves from conventional and localized Hartree-Fock-based density-functional theory. <i>Journal of Chemical Physics</i> , 2005 , 122, 34101	3.9	12
1	Exchange representations in Kohn-Sham NMR shielding calculations. <i>Chemical Physics Letters</i> , 2004 , 383, 109-114	2.5	56