

Andrew M Teale

List of Publications by Year in descending order

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65
papers

3,068
citations

201674

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54
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67
all docs

67
docs citations

67
times ranked

2554
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealing the exotic structure of molecules in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2022, 156, .	3.0	11
2	Optimizing Molecular Geometries in Strong Magnetic Fields. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 2166-2185.	5.3	29
3	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.	5.3	25
4	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.	5.3	16
5	Topological Analysis of Magnetically Induced Current Densities in Strong Magnetic Fields Using Stagnation Graphs. <i>Chemistry</i> , 2021, 3, 916-934.	2.2	9
6	Structural and electronic studies of substituted <i>m</i> -terphenyl lithium complexes. <i>Dalton Transactions</i> , 2021, 50, 722-728.	3.3	4
7	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.	2.5	8
8	Analyzing Magnetically Induced Currents in Molecular Systems Using Current-Density-Functional Theory. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1321-1333.	2.5	42
9	New density-functional approximations and beyond: general discussion. <i>Faraday Discussions</i> , 2020, 224, 166-200.	3.2	1
10	New approaches to study excited states in density functional theory: general discussion. <i>Faraday Discussions</i> , 2020, 224, 483-508.	3.2	2
11	Kohn-Sham energy decomposition for molecules in a magnetic field. <i>Molecular Physics</i> , 2019, 117, 97-109.	1.7	21
12	<i>GW</i> quasiparticle energies of atoms in strong magnetic fields. <i>Journal of Chemical Physics</i> , 2019, 150, 214112.	3.0	21
13	Excitation energies from $G\ddot{A}$ rling-Levy perturbation theory along the range-separated adiabatic connection. <i>Molecular Physics</i> , 2018, 116, 1443-1451.	1.7	5
14	Uniform magnetic fields in density-functional theory. <i>Journal of Chemical Physics</i> , 2018, 148, 024101.	3.0	20
15	Accelerating Kohn-Sham response theory using density fitting and the auxiliary-density-matrix method. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25639.	2.0	15
16	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.	2.8	28
17	Connections between variation principles at the interface of wave-function and density-functional theories. <i>Journal of Chemical Physics</i> , 2017, 147, 134107.	3.0	4
18	Magnetic-Field Density-Functional Theory (BDFT): Lessons from the Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4089-4100.	5.3	32

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19	Efficient Calculation of Molecular Integrals over London Atomic Orbitals. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3636-3649.	5.3	35
20	Exchange-Correlation Functionals via Local Interpolation along the Adiabatic Connection. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2598-2610.	5.3	40
21	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.	1.4	7
22	Electron localisation function in current-density-functional theory. <i>Molecular Physics</i> , 2016, 114, 1415-1422.	1.7	14
23	Excited states from range-separated density-functional perturbation theory. <i>Molecular Physics</i> , 2015, 113, 1740-1749.	1.7	12
24	Current Density Functional Theory Using Meta-Generalized Gradient Exchange-Correlation Functionals. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 4169-4181.	5.3	66
25	The importance of current contributions to shielding constants in density-functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 18834-18842.	2.8	35
26	Calculating excitation energies by extrapolation along adiabatic connections. <i>Physical Review A</i> , 2015, 91, .	2.5	14
27	Molecular properties in the Tamm-Dancoff approximation: indirect nuclear spin-spin coupling constants. <i>Molecular Physics</i> , 2015, 113, 1937-1951.	1.7	9
28	Fractional Electron Loss in Approximate DFT and Hartree-Fock Theory. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5262-5268.	5.3	38
29	Orbital-dependent second-order scaled-opposite-spin correlation functionals in the optimized effective potential method. <i>Journal of Chemical Physics</i> , 2014, 141, 024113.	3.0	35
30	Non-perturbative calculation of molecular magnetic properties within current-density functional theory. <i>Journal of Chemical Physics</i> , 2014, 140, 034101.	3.0	67
31	The Dalton quantum chemistry program system. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014, 4, 269-284.	14.6	1,166
32	A density difference based analysis of orbital-dependent exchange-correlation functionals. <i>Molecular Physics</i> , 2014, 112, 700-710.	1.7	25
33	Excitation energies along a range-separated adiabatic connection. <i>Journal of Chemical Physics</i> , 2014, 141, 044123.	3.0	17
34	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, 14420-14434.	2.8	9
35	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.	3.6	13
36	Revisiting the density scaling of the non-interacting kinetic energy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14578-14583.	2.8	11

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37	Differentiable but exact formulation of density-functional theory. <i>Journal of Chemical Physics</i> , 2014, 140, 18A518.	3.0	48
38	Communication: Analytic gradients in the random-phase approximation. <i>Journal of Chemical Physics</i> , 2013, 139, 081101.	3.0	38
39	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.	3.0	153
40	Analysis of double-hybrid density functionals along the adiabatic connection. <i>Molecular Physics</i> , 2013, 111, 1275-1294.	1.7	42
41	High accuracy <i>ab initio</i> studies of electron-densities for the ground state of Be-like atomic systems. <i>Journal of Chemical Physics</i> , 2013, 138, 164306.	3.0	3
42	Alternative separation of exchange and correlation energies in multi-configuration range-separated density-functional theory. <i>Journal of Chemical Physics</i> , 2013, 139, 134113.	3.0	37
43	Effective homogeneity of the exchange-correlation and non-interacting kinetic energy functionals under density scaling. <i>Journal of Chemical Physics</i> , 2012, 136, 034101.	3.0	25
44	Choice of basic variables in current-density-functional theory. <i>Physical Review A</i> , 2012, 86, .	2.5	52
45	Range-dependent adiabatic connections. , 2012, , .		0
46	Dispersion interactions in density-functional theory: An adiabatic-connection analysis. <i>Journal of Chemical Physics</i> , 2011, 135, 194109.	3.0	21
47	Comparing <i>ab initio</i> 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.	3.0	39
48	Spin flipping in ring-coupled-cluster-doubles theory. <i>Chemical Physics Letters</i> , 2011, 510, 147-153.	2.6	42
49	Range-dependent adiabatic connections. <i>Journal of Chemical Physics</i> , 2010, 133, 164112.	3.0	30
50	Accurate calculation and modeling of the adiabatic connection in density functional theory. <i>Journal of Chemical Physics</i> , 2010, 132, 164115.	3.0	86
51	Shielding Constants and Chemical Shifts in DFT: Influence of Optimized Effective Potential and Coulomb-Attenuation. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7179-7186.	2.5	18
52	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.	3.0	60
53	The calculation of adiabatic-connection curves from full configuration-interaction densities: Two-electron systems. <i>Journal of Chemical Physics</i> , 2009, 130, 104111.	3.0	64
54	Maps of current density using density-functional methods. <i>Journal of Chemical Physics</i> , 2008, 129, 074101.	3.0	50

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55	Orbital energies and negative electron affinities from density functional theory: Insight from the integer discontinuity. <i>Journal of Chemical Physics</i> , 2008, 129, 044110.	3.0	112
56	Adiabatic connection forms in density functional theory: H2 and the He isoelectronic series. <i>Journal of Chemical Physics</i> , 2008, 129, 064105.	3.0	21
57	Modeling the adiabatic connection in H2. <i>Journal of Chemical Physics</i> , 2007, 126, 244104.	3.0	34
58	Transition metal NMR chemical shifts from optimized effective potentials. <i>Journal of Chemical Physics</i> , 2007, 126, 074101.	3.0	22
59	The intramolecular \hat{I}^2 -fluorine \hat{I}^- ammonium interaction in 4- and 8-membered rings. <i>Chemical Communications</i> , 2006, , 3190-3192.	4.1	41
60	RotationalgTensors Calculated Using Hybrid Exchange-Correlation Functionals with the Optimized Effective Potential Approach. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 827-834.	5.3	14
61	Exchange methods in Kohn \hat{I} Sham theory. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2991.	2.8	19
62	Ground- and excited-state diatomic bond lengths, vibrational levels, and potential-energy curves from conventional and localized Hartree \hat{I} Fock-based density-functional theory. <i>Journal of Chemical Physics</i> , 2005, 122, 034101.	3.0	12
63	Exchange representations in Kohn \hat{I} Sham NMR shielding calculations. <i>Chemical Physics Letters</i> , 2004, 383, 109-114.	2.6	62
64	The coupling constant averaged exchange \hat{I} correlation energy density. <i>Molecular Physics</i> , 0, , 1-14.	1.7	9
65	Structural and Electronic Studies of Substituted <i>m</i> -Terphenyl Group 12 Complexes. <i>Organometallics</i> , 0, , .	2.3	2