## Dennis R Salahub

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Hexatetra-Carbon: A Novel Two-Dimensional Semiconductor Allotrope of Carbon. Computation, 2022, 10, 19.	2.0	5
2	Multiscale molecular modelling: from electronic structure to dynamics of nanosystems and beyond. Physical Chemistry Chemical Physics, 2022, 24, 9051-9081.	2.8	10
3	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:mi>A</mml:mi><mml:mi>b</mml:mi> and group theoretical study of properties of a carbon trimer defect in hexagonal boron nitride. Physical Review B. 2022, 105.</mml:mrow></mml:math 	<td>ow&gt;<mml:m 13</mml:m </td>	ow> <mml:m 13</mml:m 
4	Radical pairs may explain reactive oxygen species-mediated effects of hypomagnetic field on neurogenesis. PLoS Computational Biology, 2022, 18, e1010198.	3.2	18
5	A new active learning approach for adsorbate–substrate structural elucidation in silico. Journal of Molecular Modeling, 2022, 28, .	1.8	6
6	XSnS <sub>3</sub> (X = Ga, In) monolayer semiconductors as photo-catalysts for water splitting: a first principles study. Journal of Materials Chemistry C, 2022, 10, 11412-11423.	5.5	6
7	Computational investigation of Ba2ZrTiO6 double perovskite for optoelectronic and thermoelectric applications. Journal of Solid State Chemistry, 2022, 314, 123385.	2.9	6
8	Radical pairs may play a role in xenon-induced general anesthesia. Scientific Reports, 2021, 11, 6287.	3.3	28
9	Global optimization of ~ 1Ânm MoS2 and CaCO3 nanoparticles. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	4
10	A new active learning approach for global optimization of atomic clusters. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	12
11	Taking the multiplicity inside the loop: active learning for structural and spin multiplicity elucidation of atomic clusters. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	10
12	Preface to the special collection in honor of Fernand Spiegelman. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	0
13	Self-Consistent Auxiliary Density Perturbation Theory. Journal of Chemical Theory and Computation, 2021, 17, 6934-6946.	5.3	6
14	Lead-free, stable mixed halide double perovskites Cs2AgBiBr6 and Cs2AgBiBr6â^'xClx – A detailed theoretical and experimental study. Chemical Physics, 2020, 529, 110547.	1.9	38
15	Reliability of semiempirical and DFTB methods for the global optimization of the structures of nanoclusters. Journal of Molecular Modeling, 2020, 26, 303.	1.8	15
16	Benchmarking polarizable and non-polarizable force fields for Ca2+–peptides against a comprehensive QM dataset. Journal of Chemical Physics, 2020, 153, 144102.	3.0	9
17	Theoretical Investigation of 6-Mercaptopurine Isomers' Adsorption on the Au(001) Surface: Revealing the Fate of Different Isomers. ACS Omega, 2020, 5, 610-618.	3.5	3
18	Molecular Simulations with in-deMon2k QM/MM, a Tutorial-Review. Molecules, 2019, 24, 1653.	3.8	29

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19	Multiscale modeling of enzymes: QMâ€cluster, QM/MM, and QM/MM/MD: A tutorial review. International Journal of Quantum Chemistry, 2018, 118, e25558.	2.0	106
20	Heterogeneous reactions of SO2 on the hematite(0001) surface. Journal of Chemical Physics, 2018, 149, 194703.	3.0	10
21	Retardation in electron dynamics simulations based on time-dependent density functional theory. European Physical Journal D, 2018, 72, 1.	1.3	11
22	Auxiliary Density Functional Theory: From Molecules to Nanostructures. , 2017, , 795-860.		6
23	Electronic properties of carbon nanotubes complexed with a DNA nucleotide. Physical Chemistry Chemical Physics, 2017, 19, 7333-7342.	2.8	6
24	Effect of dispersion corrections on covalent and non-covalent interactions in DFTB calculations. Structural Chemistry, 2017, 28, 1399-1407.	2.0	4
25	Selective ion binding and transport by membrane proteins – A computational perspective. Coordination Chemistry Reviews, 2017, 345, 108-136.	18.8	31
26	First-principles calculations of the structural, mechanical, electronic and bonding properties of (CrB) Tj ETQq0 (	) 0 rgBT /0\	verlock 10 Tf 5
27	The role of metal substitution in the promiscuity of natural and artificial carbonic anhydrases. Coordination Chemistry Reviews, 2017, 345, 73-85.	18.8	11
28	Explicit Water Molecules Play a Key Role in the Mechanism of Rhodium‣ubstituted Human Carbonic Anhydrase. ChemCatChem, 2017, 9, 1047-1053.	3.7	11
29	Simulating Electron Dynamics in Polarizable Environments. Journal of Chemical Theory and Computation, 2017, 13, 3985-4002.	5.3	41
30	Density-functional-based tight-binding parameterization of Mo, C, H, O and Si for studying hydrogenation reactions on molybdenum carbide. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	2
31	LiCl solvation in N-methyl-acetamide (NMA) as a model for understanding Li <sup>+</sup> binding to an amide plane. Physical Chemistry Chemical Physics, 2016, 18, 4191-4200.	2.8	23
32	Application of topological analysis of the electron localization function to the complexes of molybdenum carbide nanoparticles with unsaturated hydrocarbons. Canadian Journal of Chemistry, 2016, 94, 282-292.	1.1	3
33	QM/MM Calculations with deMon2k. Molecules, 2015, 20, 4780-4812.	3.8	20
34	Representation of Ion–Protein Interactions Using the Drude Polarizable Force-Field. Journal of Physical Chemistry B, 2015, 119, 9401-9416.	2.6	101
35	Progress and challenges in simulating and understanding electron transfer in proteins. Archives of Biochemistry and Biophysics, 2015, 582, 28-41.	3.0	19
36	Molybdenum Carbide Nanocatalysts at Work in the in Situ Environment: A Density Functional Tight-Binding and Quantum Mechanical/Molecular Mechanical Study. Journal of the American	13.7	28

Tight-Binding and Quantum Mechanical/Molecular Mechanical Study. Journal of the American Chemical Society, 2015, 137, 4249-4259. 36

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37	Quantum Effects in Cation Interactions with First and Second Coordination Shell Ligands in Metalloproteins. Journal of Chemical Theory and Computation, 2015, 11, 4992-5001.	5.3	42
38	Measurement and prediction of quantum coherence effects in biological processes. Physical Chemistry Chemical Physics, 2015, 17, 30772-30774.	2.8	0
39	Multiple proton relay routes in the reaction mechanism of <scp>RNAP</scp> II: Assessing the effect of structural model. Proteins: Structure, Function and Bioinformatics, 2015, 83, 268-281.	2.6	4
40	Auxiliary Density Functional Theory: From Molecules to Nanostructures. , 2015, , 1-67.		5
41	Multiscale Modelling of In Situ Oil Sands Upgrading with Molybdenum Carbide Nanoparticles. Challenges and Advances in Computational Chemistry and Physics, 2015, , 415-445.	0.6	2
42	Native Defects in α-Mo <sub>2</sub> C: Insights from First-Principles Calculations. Journal of Physical Chemistry C, 2014, 118, 25517-25524.	3.1	20
43	Temperature dependence of the molecular conformations of dilauroyl phosphatidylcholine: A density functional study. International Journal of Quantum Chemistry, 2013, 113, 631-636.	2.0	7
44	Recent Progress in Density Functional Methodology for Biomolecular Modeling. Structure and Bonding, 2013, , 1-64.	1.0	9
45	Quantum Chemical Molecular Dynamics Study of the Water–Gas Shift Reaction on a Pd/MgO(100) Catalyst Surface. Journal of Physical Chemistry C, 2013, 117, 5051-5066.	3.1	10
46	Adsorption of Hexacyclic C <sub>6</sub> H <sub>6</sub> , C <sub>6</sub> H <sub>8</sub> , C <sub>6</sub> H <sub>10</sub> , and C <sub>6</sub> H <sub>12</sub> on a Mo-Terminated α-Mo <sub>2</sub> C (0001) Surface. Journal of Physical Chemistry C, 2013, 117, 7069-7080.	3.1	26
47	Asymptotic Expansion for Electrostatic Embedding Integrals in QM/MM Calculations. Journal of Chemical Theory and Computation, 2012, 8, 4232-4238.	5.3	15
48	A theoretical study of the mechanism of the nucleotidyl transfer reaction catalyzed by yeast RNA polymerase II. Science China Chemistry, 2012, 55, 1887-1894.	8.2	6
49	Density functional study of benzene adsorption on the α-Mo2C(0001) surface. Structural Chemistry, 2012, 23, 1459-1466.	2.0	16
50	deMon2k. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2012, 2, 548-555.	14.6	189
51	Quantum effects in biological electron transfer. Physical Chemistry Chemical Physics, 2012, 14, 5902.	2.8	31
52	Transmission Coefficients for Chemical Reactions with Multiple States: Role of Quantum Decoherence. Journal of the American Chemical Society, 2011, 133, 3883-3894.	13.7	22
53	Spinâ€driven activation of dioxygen in various metalloenzymes and their inspired models. Journal of Computational Chemistry, 2011, 32, 1178-1182.	3.3	14
54	The QMâ€MM interface for CHARMMâ€deMon. Journal of Computational Chemistry, 2010, 31, 1015-1023.	3.3	21

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55	Editorial: Special issue on quantum mechanical modeling of biological systems. Interdisciplinary Sciences, Computational Life Sciences, 2010, 2, 1-2.	3.6	11
56	Na+, K+ and Tl+ hydration from QM/MM computations and MD simulations with a polarizable force field. Interdisciplinary Sciences, Computational Life Sciences, 2010, 2, 12-20.	3.6	4
57	Derivation of interpretative models for long range electron transfer from constrained density functional theory. Computational and Theoretical Chemistry, 2010, 943, 115-120.	1.5	65
58	Surface residues dynamically organize water bridges to enhance electron transfer between proteins. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11799-11804.	7.1	50
59	Multilevel Fragment-Based Approach (MFBA): A Novel Hybrid Computational Method for the Study of Large Molecules. Journal of Chemical Theory and Computation, 2010, 6, 91-99.	5.3	58
60	A Guide to QM/MM Methodology and Applications. Advances in Quantum Chemistry, 2010, 59, 353-400.	0.8	27
61	Structural analysis of phosphatidyl choline lipids and glycerol precursors. Canadian Journal of Chemistry, 2009, 87, 1261-1267.	1.1	8
62	Exploring the molecular origin of the high selectivity of multisubunit RNA polymerases by stochastic kinetic models. Interdisciplinary Sciences, Computational Life Sciences, 2009, 1, 91-98.	3.6	4
63	Semiempirical Quantum Chemical PM6 Method Augmented by Dispersion and H-Bonding Correction Terms Reliably Describes Various Types of Noncovalent Complexes. Journal of Chemical Theory and Computation, 2009, 5, 1749-1760.	5.3	312
64	Dioxygen Activation by Mononuclear Copper Enzymes: Insights from a Tripodal Ligand Mimicking Their CuM Coordination Sphere. Inorganic Chemistry, 2009, 48, 7003-7005.	4.0	11
65	Nelfinavir: A magic bullet to annihilate cancer cells. Cancer Biology and Therapy, 2009, 8, 233-235.	3.4	6
66	Characterization of the active site of yeast RNA polymerase II by DFT and ReaxFF calculations. Theoretical Chemistry Accounts, 2008, 120, 479-489.	1.4	41
67	Lipid Thermodynamics: Melting is Molecular. ChemPhysChem, 2008, 9, 2321-2324.	2.1	19
68	Delay stochastic simulation of singleâ€gene expression reveals a detailed relationship between protein noise and mean abundance. FEBS Letters, 2008, 582, 2905-2910.	2.8	18
69	Mechanisms of Nucleotidyl Transfer Catalyzed by the Yeast RNA Polymerase II. AIP Conference Proceedings, 2007, , .	0.4	4
70	Density functional theory augmented with an empirical dispersion term. Interaction energies and geometries of 80 noncovalent complexes compared withab initioquantum mechanics calculations. Journal of Computational Chemistry, 2007, 28, 555-569.	3.3	620
71	A reparametrization of a meta-GGA exchange-correlation functional with improved descriptions of van der Waals interactions. Chemical Physics Letters, 2007, 436, 394-399.	2.6	6
72	Studying genetic regulatory networks at the molecular level: Delayed reaction stochastic models. Journal of Theoretical Biology, 2007, 246, 725-745.	1.7	121

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73	Reparameterization of a meta-generalized gradient approximation functional by combining TPSS exchange with τ1 correlation. Theoretical Chemistry Accounts, 2007, 118, 693-707.	1.4	19
74	Dissociation, solvation, and dynamics of HBr in small water clusters. Theoretical Chemistry Accounts, 2005, 114, 115-123.	1.4	11
75	Intramolecular interaction energies in model alanine and glycine tetrapeptides. Evaluation of anisotropy, polarization, and correlation effects. A parallelab initioHF/MP2, DFT, and polarizable molecular mechanics study. Journal of Computational Chemistry, 2004, 25, 823-834.	3.3	37
76	Chemical nature of point defects at the (VO) 2 P 2 O 7 (100) surface. Surface Science, 2003, 538, 160-170.	1.9	8
77	QM/MM calculations of EPR hyperfine coupling constants in blue copper proteins. Computational and Theoretical Chemistry, 2003, 632, 287-295.	1.5	29
78	Time-dependent density functional theory as a foundation for a firmer understanding of sum-over-states density functional perturbation theory: ?Loc.3? approximation. International Journal of Quantum Chemistry, 2003, 91, 67-83.	2.0	20
79	Interaction of Y, Y2, Mo, and Mo2 with NH3. A Density Functional Study. Journal of Physical Chemistry A, 2003, 107, 4136-4140.	2.5	4
80	14,15N NMR Shielding Constants from Density Functional Theory. Journal of Physical Chemistry A, 2003, 107, 9924-9930.	2.5	15
81	Negative ion photoelectron spectra simulation of V3O from a density functional study. Journal of Chemical Physics, 2003, 118, 4913-4919.	3.0	19
82	Kohn–Sham density-functional study of the adsorption of acetylene and vinylidene on iron clusters, Fen/Fen+ (n=1–4). Journal of Chemical Physics, 2003, 119, 12279-12290.	3.0	17
83	Kohn–Sham density-functional study of the formation of benzene from acetylene on iron clusters, Fe/Fen+ (n=1–4). Journal of Chemical Physics, 2003, 119, 12291-12300.	3.0	27
84	NMR shieldings from sum-over-states density-functional-perturbation theory: Further testing of the "Loc.3―approximation. Journal of Chemical Physics, 2003, 118, 6758-6768.	3.0	10
85	An efficient Monte Carlo method for calculating ab initio transition state theory reaction rates in solution. Journal of Chemical Physics, 2003, 119, 11285-11297.	3.0	19
86	Exchange-only optimized effective potential for molecules from resolution-of-the-identity techniques: Comparison with the local density approximation, with and without asymptotic correction. Journal of Chemical Physics, 2002, 116, 8276.	3.0	46
87	Solvation of formic acid and proton transfer in hydrated clusters. Journal of Chemical Physics, 2002, 116, 6028-6038.	3.0	54
88	Kohn–Sham orbitals and orbital energies: fictitious constructs but good approximations all the same. Journal of Electron Spectroscopy and Related Phenomena, 2002, 123, 345-363.	1.7	113
89	Assessment of the quality of orbital energies in resolution-of-the-identity Hartree–Fock calculations using deMon auxiliary basis sets. Journal of Chemical Physics, 2001, 114, 7342-7350.	3.0	38
90	Origin of the high basicity of 2,7-dimethoxy-1,8-bis(dimethylamino)naphthalene: implications for enzyme catalysis. Computational and Theoretical Chemistry, 2001, 547, 113-118.	1.5	16

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91	V3: Structure and vibrations from density functional theory, Franck–Condon factors, and the pulsed-field ionization zero-electron-kinetic energy spectrum. Journal of Chemical Physics, 2001, 114, 4036-4044.	3.0	53
92	Bonding in Nb[sub 3]O, Nb[sub 3]S and Nb[sub 3]Se: A topological analysis of the electrostatic potential. Journal of Chemical Physics, 2001, 114, 819.	3.0	11
93	Using a classical potential as an efficient importance function for sampling from an ab initio potential. Journal of Chemical Physics, 2000, 113, 4852.	3.0	88
94	Asymptotic correction approach to improving approximate exchange–correlation potentials: Time-dependent density-functional theory calculations of molecular excitation spectra. Journal of Chemical Physics, 2000, 113, 8918-8935.	3.0	280
95	Charge-transfer correction for improved time-dependent local density approximation excited-state potential energy curves: Analysis within the two-level model with illustration for H2 and LiH. Journal of Chemical Physics, 2000, 113, 7062-7071.	3.0	243
96	Many-Body Effects in Systems of Peptide Hydrogen-Bonded Networks and Their Contributions to Ligand Binding:Â A Comparison of the Performances of DFT and Polarizable Molecular Mechanics. Journal of Physical Chemistry B, 2000, 104, 9746-9754.	2.6	93
97	Effect of rotation and vibration on nuclear magnetic resonance chemical shifts: Density functional theory calculations. Journal of Chemical Physics, 1999, 110, 7153-7159.	3.0	26
98	NO adsorption on Pd clusters. A density functional study. Topics in Catalysis, 1999, 9, 123-133.	2.8	17
99	Electrical and mechanical properties of distorted carbon nanotubes. Physical Review B, 1999, 60, 13824-13830.	3.2	293
100	Topological analysis of the molecular electrostatic potential. Journal of Chemical Physics, 1999, 111, 4893-4905.	3.0	105
101	Effects of Finite Length on the Electronic Structure of Carbon Nanotubes. Journal of Physical Chemistry B, 1999, 103, 641-646.	2.6	223
102	Critical Role of Anisotropy for the Dimerization Energies of Two Proteinâ^'Protein Recognition Motifs:cis-N-Methylacetamide versus a β-Sheet Conformer of Alanine Dipeptide. A Joint ab Initio, Density Functional Theory, and Molecular Mechanics Investigation. Journal of the American Chemical Society, 1999, 121, 7885-7894.	13.7	41
103	Fe(N2)n(n= 1â^'5):Â Structure, Bonding, and Vibrations from Density Functional Theory. Inorganic Chemistry, 1999, 38, 3895-3903.	4.0	29
104	The effect of structural distortions on the electronic structure of carbon nanotubes. Chemical Physics Letters, 1998, 297, 45-50.	2.6	130
105	Cooperative Hydrogen Bonding and Enzyme Catalysis. Angewandte Chemie - International Edition, 1998, 37, 2985-2990.	13.8	66
106	Molecular versus Dissociative Chemisorption of Nitric Oxide on Co2and Co3(Neutral and Cationic). A Density Functional Study. Journal of Physical Chemistry A, 1998, 102, 4643-4651.	2.5	14
107	Molecular excitation energies to high-lying bound states from time-dependent density-functional response theory: Characterization and correction of the time-dependent local density approximation ionization threshold. Jo Physics. 1998. 108. 4439-4449.	umal of C	4596 hemical
108	Embedded cluster model for chemisorption using density functional calculations: Oxygen adsorption on the Al(100) surface Journal of Chemical Physics, 1998, 108, 743-756.	3.0	29

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109	Density functional study of mononitrosyls of first-row transition-metal atoms. Journal of Chemical Physics, 1997, 106, 8778-8787.	3.0	45
110	Structure and properties of cobalt clusters up to the tetramer: A density-functional study. Physical Review B, 1997, 55, 10905-10921.	3.2	88
111	Reaction of a Mo Atom with H2, N2, and O2:  A Density Functional Study. Journal of Physical Chemistry A, 1997, 101, 1532-1541.	2.5	22
112	NO/Ni, NO/Ni2, and (NO)2/Ni2Interactions. A Density Functional Study. Journal of Physical Chemistry B, 1997, 101, 7464-7471.	2.6	16
113	Achieving reliability of calculations for flat potential surfaces in density functional theory: The case of Al4 and Al4+1. International Journal of Quantum Chemistry, 1997, 63, 301-311.	2.0	8
114	Investigation of M�zssbauer parameters for a set of iodine compounds using gradient-corrected density functional theory. International Journal of Quantum Chemistry, 1997, 63, 575-583.	2.0	15
115	Structure, bonding, and magnetism of small Fe , Co , and Ni clusters, n ≤5. Chemical Physics Letters, 1997, 271, 133-142.	2.6	221
116	The structure of triniobium dinitride from zero electron kinetic energy photoelectron spectroscopy and density functional calculations. Chemical Physics Letters, 1997, 277, 71-78.	2.6	26
117	Dynamic polarizabilities and excitation spectra from a molecular implementation of timeâ€dependent densityâ€functional response theory: N2as a case study. Journal of Chemical Physics, 1996, 104, 5134-5147.	3.0	872
118	Bond selectivity in the dissociative adsorption of c-CH2N2 on single crystals: a comparative DFT-LSD investigation for Pd(110) and Cu(110). Surface Science, 1996, 347, 11-24.	1.9	9
119	Nuclear magnetic resonance spin–spin coupling constants from density functional theory: Problems and results. Journal of Chemical Physics, 1996, 105, 8793-8800.	3.0	146
120	Comment on â€~ã€~Density functional calculation of nuclear magnetic resonance chemical shifts'' [J. Cher Phys. 102, 2806 (1995)]. Journal of Chemical Physics, 1996, 104, 1163-1164.	<sup>m</sup> 3.0	6
121	Spin-orbit correction to NMR shielding constants from density functional theory. Chemical Physics Letters, 1996, 261, 335-345.	2.6	136
122	Ab Initio ECP/DFT Calculation and Interpretation of Carbon and Oxygen NMR Chemical Shift Tensors in Transitionâ€Metal Carbonyl Complexes. Chemistry - A European Journal, 1996, 2, 24-30.	3.3	52
123	Vibrational and geometric structures of Nb3C2 and Nb3C+2 from pulsed field ionizationâ€zero electron kinetic energy photoelectron spectra and density functional calculations. Journal of Chemical Physics, 1996, 105, 10663-10671.	3.0	71
124	Calculation of ligand NMR chemical shifts in transition-metal complexes using ab initio effective-core potentials and density functional theory. Chemical Physics Letters, 1995, 235, 382-388.	2.6	90
125	The backbone 15N chemical shift tensor of the gramicidin channel. A molecular dynamics and density functional study. Chemical Physics Letters, 1995, 239, 186-194.	2.6	31
126	Density functional study on the reaction of CO molecules with MgO surfaces. Catalysis Today, 1995, 23, 357-364.	4.4	15

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127	Applications of the adiabatic connection method to conformational equilibria and reactions involving formic acid. Computers & Chemistry, 1995, 19, 145-154.	1.2	7
128	Electrostatic fields E(r) created in the vicinity of cluster-modelled nickel surfaces, using DFT densities. Computational and Theoretical Chemistry, 1995, 330, 279-285.	1.5	8
129	The structure of Nb3O and Nb3O+ determined by pulsed field ionization–zero electron kinetic energy photoelectron spectroscopy and density functional theory. Journal of Chemical Physics, 1995, 103, 5335-5342.	3.0	135
130	A density functional study of borane and alane monoammoniate (BH3NH3,AlH3NH3). Journal of Chemical Physics, 1995, 103, 7408-7413.	3.0	15
131	All-electron local and gradient-corrected density-functional calculations ofNandipole polarizabilities forn=1–6. Physical Review B, 1995, 52, 2184-2200.	3.2	77
132	Zero-Pressure Thermal-Radiation-Induced Dissociation of Gas-Phase Cluster lons: Comparison of Theory and Experiment for (H2O)2Cl- and (H2O)3Cl Journal of the American Chemical Society, 1995, 117, 12819-12825.	13.7	109
133	Scalar Relativistic Effects on 170 NMR Chemical Shifts in Transition-Metal Oxo Complexes. An ab Initio ECP/DFT Study. Journal of the American Chemical Society, 1995, 117, 1851-1852.	13.7	82
134	Defining the Domain of Density Functionals: Charge-Transfer Complexes. Journal of the American Chemical Society, 1995, 117, 1141-1142.	13.7	133
135	Influence of Intermolecular Interactions on the 13C NMR Shielding Tensor in Solid .alphaGlycine. Journal of the American Chemical Society, 1995, 117, 3294-3295.	13.7	49
136	Scalar Relativistic Effects on 170 NMR Chemical Shifts in Transition-Metal Oxo Complexes. An ab Initio ECP/DFT Study. [Erratum to document cited in CA122:254385]. Journal of the American Chemical Society, 1995, 117, 8492-8492.	13.7	21
137	The calculation of NMR and ESR spectroscopy parameters using density functional theory. Theoretical and Computational Chemistry, 1995, 2, 273-347.	0.4	139
138	A density functional study of FeCO, FeCOâ^, and FeCO+. Journal of Chemical Physics, 1994, 100, 8233-8239.	3.0	59
139	Aluminum clusters. A comparison between all electron and model core potential calculations. Journal of Chemical Physics, 1994, 101, 10677-10685.	3.0	39
140	Simple but efficient correlation functional from a model pair-correlation function. Physical Review B, 1994, 49, 7874-7886.	3.2	43
141	The effects of nonlocal gradient corrections in density functional calculations of hydrocarbon radical hyperfine structures. International Journal of Quantum Chemistry, 1994, 52, 879-901.	2.0	51
142	On the electronic structure of MoO: Spin-polarized density functional calculations of spectroscopic properties of low-lying quintet, triplet, and septet states. International Journal of Quantum Chemistry, 1994, 52, 1017-1026.	2.0	19
143	A density functional study of the interaction of CO2 with a Pd atom. International Journal of Quantum Chemistry, 1994, 52, 645-654.	2.0	25
144	Calculation of spin—spin coupling constants using density functional theory. Chemical Physics Letters, 1994, 221, 91-99.	2.6	192

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145	Analysis and assignment of the optical absorption transitions in CuCl2 with Gaussian density functional calculations. Chemical Physics Letters, 1994, 219, 228-236.	2.6	37
146	Nuclear Magnetic Resonance Shielding Tensors Calculated with a Sum-over-States Density Functional Perturbation Theory. Journal of the American Chemical Society, 1994, 116, 5898-5908.	13.7	485
147	Density functional study of nitrogen oxides. Journal of Chemical Physics, 1994, 100, 2910-2923.	3.0	196
148	The hyperfine structures of small radicals from density functional calculations. Journal of Chemical Physics, 1994, 100, 5066-5075.	3.0	126
149	Assessment of Kohn-Sham density-functional orbitals as approximate Dyson orbitals for the calculation of electron-momentum-spectroscopy scattering cross sections. Physical Review A, 1994, 50, 4707-4728.	2.5	255
150	Density-functional calculations for small iron clusters:Fen,Fen+, andFenâ^'fornâ‰ <b>5</b> . Physical Review B, 1994, 49, 11842-11852.	3.2	134
151	2.18 Quantum Chemical Study on Reactions of Small Molecules on Various MgO Surfaces. Studies in Surface Science and Catalysis, 1994, 90, 233-243.	1.5	0
152	Density functional theory and quantum chemistry: Metals and metal oxides. Journal of Molecular Catalysis, 1993, 82, 117-129.	1.2	35
153	Geometrical, spectroscopic, and magnetic properties of an oxygen atom adsorbed on the Ni(100) surface. International Journal of Quantum Chemistry, 1993, 48, 277-286.	2.0	11
154	Density functional calculations of isotropic hyperfine coupling constants of radical cations. Journal of Chemical Physics, 1993, 99, 9756-9763.	3.0	77
155	Theoretical study of the structure and binding of iron clusters:Fen(nâ‰ <b>5</b> ). Physical Review B, 1993, 47, 10955-10958.	3.2	67
156	Density-functional study of niobium clusters. Physical Review A, 1993, 47, R774-R777.	2.5	104
157	Core-level shifts from density-functional computations. Physical Review B, 1993, 47, 12992-12994.	3.2	20
158	Gaussian density functional calculations on hydrogen-bonded systems. Journal of the American Chemical Society, 1992, 114, 4391-4400.	13.7	462
159	Optimization of Gaussian-type basis sets for local spin density functional calculations. Part I. Boron through neon, optimization technique and validation. Canadian Journal of Chemistry, 1992, 70, 560-571.	1.1	2,791
160	The accurate calculation of dipole moments and dipole polarizabilities using Gaussian-based density functional methods. International Journal of Quantum Chemistry, 1992, 43, 463-479.	2.0	59
161	Quintet electronic states of MoO: Gaussian density functional calculations. International Journal of Quantum Chemistry, 1992, 44, 393-399.	2.0	12
162	Site segregation in small rhodium bimetallic aggregates: a combined catalytic and quantum chemical study. Journal of the American Chemical Society, 1991, 113, 1485-1492.	13.7	50

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163	Gaussian density functional calculations on the allyl and polyene radicals: C3H5 to C11H13. Journal of Chemical Physics, 1991, 95, 4317-4326.	3.0	104
164	Calculation of equilibrium geometries and harmonic frequencies by theLCGTO-MCP-local spin density method. International Journal of Quantum Chemistry, 1990, 38, 29-39.	2.0	42
165	New algorithm for the optimization of geometries in local density functional theory. Chemical Physics Letters, 1990, 169, 387-392.	2.6	636
166	Bis(phosphine)nickelacyclopentane: an investigation by local spin density theory. Inorganic Chemistry, 1990, 29, 1544-1549.	4.0	9
167	Chemisorption and diffusion of atomic hydrogen in and on cluster models of palladium, rhodium and bimetallic palladium tin, rhodium tin, and rhodium zinc catalysts. Journal of the American Chemical Society, 1990, 112, 8239-8247.	13.7	41
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