

# Evert Jan Baerends

## List of Publications by Year in descending order

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352  
papers

55,869  
citations

2062

97  
h-index

989

230  
g-index

373  
all docs

373  
docs citations

373  
times ranked

20857  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry with ADF. Journal of Computational Chemistry, 2001, 22, 931-967.	3.4	9,113
2	Relativistic regular two-component Hamiltonians. Journal of Chemical Physics, 1993, 99, 4597-4610.	3.1	3,923
3	Relativistic total energy using regular approximations. Journal of Chemical Physics, 1994, 101, 9783-9792.	3.1	2,924
4	Towards an order-N. Theoretical Chemistry Accounts, 1998, 99, 391.	1.5	2,454
5	Optimized Slater-type basis sets for the elements 1-118. Journal of Computational Chemistry, 2003, 24, 1142-1156.	3.4	2,423
6	The zero-order regular approximation for relativistic effects: The effect of spin-orbit coupling in closed shell molecules. Journal of Chemical Physics, 1996, 105, 6505-6516.	3.1	1,513
7	Exchange-correlation potential with correct asymptotic behavior. Physical Review A, 1994, 49, 2421-2431.	2.6	1,359
8	Towards an order-N DFT method. Theoretical Chemistry Accounts, 1998, 99, 391-403.	1.5	1,298
9	Relativistic regular two-component Hamiltonians. International Journal of Quantum Chemistry, 1996, 57, 281-293.	2.1	1,062
10	Voronoi deformation density (VDD) charges: Assessment of the Mulliken, Bader, Hirshfeld, Weinhold, and VDD methods for charge analysis. Journal of Computational Chemistry, 2004, 25, 189-210.	3.4	999
11	Kohn-Sham Density Functional Theory: Predicting and Understanding Chemistry. Reviews in Computational Chemistry, 2007, , 1-86.	0.0	941
12	Molecular calculations of excitation energies and (hyper)polarizabilities with a statistical average of orbital model exchange-correlation potentials. Journal of Chemical Physics, 2000, 112, 1344-1352.	3.1	705
13	A Quantum Chemical View of Density Functional Theory. Journal of Physical Chemistry A, 1997, 101, 5383-5403.	2.6	585
14	Electronic structure, magnetic properties, ESR, and optical spectra for 2-iron ferredoxin models by LCAO-X.alpha. valence bond theory. Journal of the American Chemical Society, 1984, 106, 2316-2327.	14.6	523
15	Interpretation of the Kohn-Sham orbital energies as approximate vertical ionization potentials. Journal of Chemical Physics, 2002, 116, 1760-1772.	3.1	484
16	Density functional calculations of nuclear magnetic shieldings using the zeroth-order regular approximation (ZORA) for relativistic effects: ZORA nuclear magnetic resonance. Journal of Chemical Physics, 1999, 110, 7689-7698.	3.1	468
17	Precise density-functional method for periodic structures. Physical Review B, 1991, 44, 7888-7903.	3.3	464
18	Hydrogen Bonding in DNA Base Pairs: Reconciliation of Theory and Experiment. Journal of the American Chemical Society, 2000, 122, 4117-4128.	14.6	424

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19	Binding energy and electronic structure of small copper particles. <i>Physical Review B</i> , 1983, 27, 2132-2144.	3.3	395
20	Chiroptical properties from time-dependent density functional theory. I. Circular dichroism spectra of organic molecules. <i>Journal of Chemical Physics</i> , 2002, 116, 6930-6940.	3.1	390
21	The Kohn-Sham gap, the fundamental gap and the optical gap: the physical meaning of occupied and virtual Kohn-Sham orbital energies. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16408.	2.9	367
22	Calculation of bond energies in compounds of heavy elements by a quasi-relativistic approach. <i>The Journal of Physical Chemistry</i> , 1989, 93, 3050-3056.	3.0	358
23	Shape corrections to exchange-correlation potentials by gradient-regulated seamless connection of model potentials for inner and outer region. <i>Journal of Chemical Physics</i> , 2001, 114, 652.	3.1	345
24	Electric Field Dependence of the Exchange-Correlation Potential in Molecular Chains. <i>Physical Review Letters</i> , 1999, 83, 694-697.	8.0	342
25	The Nature of the Hydrogen Bond in DNA Base Pairs: The Role of Charge Transfer and Resonance Assistance. <i>Chemistry - A European Journal</i> , 1999, 5, 3581-3594.	3.9	342
26	Electronic Spectra of $M(\text{CO})_6$ ( $M = \text{Cr}, \text{Mo}, \text{W}$ ) Revisited by a Relativistic TDDFT Approach. <i>Journal of the American Chemical Society</i> , 1999, 121, 10356-10365.	14.6	334
27	Asymptotic correction of the exchange-correlation kernel of time-dependent density functional theory for long-range charge-transfer excitations. <i>Journal of Chemical Physics</i> , 2004, 121, 655-660.	3.1	328
28	A density functional theory study of frequency-dependent polarizabilities and Van der Waals dispersion coefficients for polyatomic molecules. <i>Journal of Chemical Physics</i> , 1995, 103, 9347-9354.	3.1	316
29	The Carbon-Lithium Electron Pair Bond in $(\text{CH}_3\text{Li})_n$ ( $n = 1, 2, 4$ ). <i>Organometallics</i> , 1996, 15, 2923-2931.	2.6	291
30	Relativistic effects on bonding. <i>Journal of Chemical Physics</i> , 1981, 74, 1271-1284.	3.1	259
31	An approximate exchange-correlation hole density as a functional of the natural orbitals. <i>Molecular Physics</i> , 2002, 100, 401-421.	1.7	253
32	Density-functional-theory response-property calculations with accurate exchange-correlation potentials. <i>Physical Review A</i> , 1998, 57, 2556-2571.	2.6	250
33	The calculation of excitation energies based on the relativistic two-component zeroth-order regular approximation and time-dependent density-functional with full use of symmetry. <i>Journal of Chemical Physics</i> , 2005, 122, 204103.	3.1	244
34	Self-consistent approximation to the Kohn-Sham exchange potential. <i>Physical Review A</i> , 1995, 51, 1944-1954.	2.6	242
35	Ground State of the $(\text{H}_2\text{O})_2^+$ Radical Cation: DFT versus Post-Hartree-Fock Methods. <i>Journal of Physical Chemistry A</i> , 1999, 103, 166-170.	2.6	234
36	The Case for Steric Repulsion Causing the Staggered Conformation of Ethane. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4183-4188.	14.7	227

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37	Even-tempered slater-type orbitals revisited: From hydrogen to krypton. <i>Journal of Computational Chemistry</i> , 2004, 25, 1030-1036.	3.4	220
38	Cohesive energy of 3d transition metals: Density functional theory atomic and bulk calculations. <i>Physical Review B</i> , 1996, 54, 5326-5333.	3.3	210
39	The merits of the frozen-density embedding scheme to model solvatochromic shifts. <i>Journal of Chemical Physics</i> , 2005, 122, 094115.	3.1	209
40	Excitation Energies for Transition Metal Compounds from Time-Dependent Density Functional Theory. Applications to $MnO_4^-$ , $Ni(CO)_4$ , and $Mn_2(CO)_{10}$ . <i>Journal of Physical Chemistry A</i> , 1999, 103, 6835-6844.	2.6	202
41	Physical Meaning of Virtual Kohn-Sham Orbitals and Orbital Energies: An Ideal Basis for the Description of Molecular Excitations. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4432-4441.	5.6	201
42	Atomic and molecular hydrogen interacting with Pt(111). <i>Journal of Chemical Physics</i> , 1999, 111, 11155-11163.	3.1	198
43	Exchange and correlation energy in density functional theory: Comparison of accurate density functional theory quantities with traditional Hartree-Fock based ones and generalized gradient approximations for the molecules $Li_2$ , $N_2$ , $F_2$ . <i>Journal of Chemical Physics</i> , 1997, 107, 5007-5015.	3.1	197
44	Calculating frequency-dependent hyperpolarizabilities using time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 1998, 109, 10644-10656.	3.1	196
45	Central bond in the three CN $\cdot$ dimers NC-CN, CN-CN and CN-NC: electron pair bonding and Pauli repulsion effects. <i>The Journal of Physical Chemistry</i> , 1992, 96, 4864-4873.	3.0	193
46	Predicting Catalysis: Understanding Ammonia Synthesis from First-Principles Calculations. <i>Journal of Physical Chemistry B</i> , 2006, 110, 17719-17735.	2.7	193
47	Improved density functional theory results for frequency-dependent polarizabilities, by the use of an exchange-correlation potential with correct asymptotic behavior. <i>Journal of Chemical Physics</i> , 1996, 105, 3142-3151.	3.1	192
48	Time-dependent Density Functional Results for the Dynamic Hyperpolarizability of $C_{60}$ . <i>Physical Review Letters</i> , 1997, 78, 3097-3100.	8.0	187
49	Chiroptical properties from time-dependent density functional theory. II. Optical rotations of small to medium sized organic molecules. <i>Journal of Chemical Physics</i> , 2002, 117, 581-592.	3.1	187
50	Fenton-like Chemistry in Water: Oxidation Catalysis by Fe(III) and $H_2O_2$ . <i>Journal of Physical Chemistry A</i> , 2003, 107, 5722-5731.	2.6	184
51	An improved density matrix functional by physically motivated repulsive corrections. <i>Journal of Chemical Physics</i> , 2005, 122, 204102.	3.1	179
52	Alternatives to the CO Ligand: Coordination of the Isolobal Analogues $BF$ , $BNH_2$ , $BN(CH_3)_2$ , and $BO^+$ in Mono- and Binuclear First-Row Transition Metal Complexes. <i>Chemistry - A European Journal</i> , 1998, 4, 210-221.	3.9	172
53	Time-dependent density functional calculations on the electronic absorption spectrum of free base porphyrin. <i>Journal of Chemical Physics</i> , 1999, 111, 2499-2506.	3.1	169
54	Accurate density functional calculations on frequency-dependent hyperpolarizabilities of small molecules. <i>Journal of Chemical Physics</i> , 1998, 109, 10657-10668.	3.1	167

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55	The Mechanism of Zinc(II)-Dithiocarbamate-Accelerated Vulcanization Uncovered; Theoretical and Experimental Evidence. <i>Journal of the American Chemical Society</i> , 1999, 121, 163-168.	14.6	167
56	Can the Counterpoise Correction for Basis Set Superposition Effect Be Justified?. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 252-267.	5.6	167
57	Relativistic calculations on the adsorption of CO on the (111) surfaces of Ni, Pd, and Pt within the zeroth-order regular approximation. <i>Physical Review B</i> , 1997, 56, 13556-13562.	3.3	165
58	Metal-Macrocycle Interaction in Phthalocyanines: Density Functional Calculations of Ground and Excited States. <i>Inorganic Chemistry</i> , 1994, 33, 584-595.	4.2	156
59	Orbital structure of the Kohn-Sham exchange potential and exchange kernel and the field-counteracting potential for molecules in an electric field. <i>Physical Review A</i> , 2001, 64, .	2.6	156
60	Analysis of electron interaction and atomic shell structure in terms of local potentials. <i>Journal of Chemical Physics</i> , 1994, 101, 8955-8963.	3.1	154
61	Comparison of the Accurate Kohn-Sham Solution with the Generalized Gradient Approximations (GGAs) for the SN2 Reaction $F^- + CH_3F \rightarrow FCH_3 + F^-$ : A Qualitative Rule To Predict Success or Failure of GGAs. <i>Journal of Physical Chemistry A</i> , 2000, 104, 8558-8565.	2.6	152
62	Analysis of correlation in terms of exact local potentials: Applications to two-electron systems. <i>Physical Review A</i> , 1989, 40, 4190-4202.	2.6	148
63	Exact solutions of regular approximate relativistic wave equations for hydrogen-like atoms. <i>Journal of Chemical Physics</i> , 1994, 101, 1272-1281.	3.1	145
64	Ethylene epoxidation on silver(110): the role of subsurface oxygen. <i>The Journal of Physical Chemistry</i> , 1989, 93, 6469-6475.	3.0	143
65	Relativistic atomic orbital contractions and expansions: magnitudes and explanations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, 3225-3240.	1.6	141
66	Constructing accurate potential energy surfaces for a diatomic molecule interacting with a solid surface: $H_2+Pt(111)$ and $H_2+Cu(100)$ . <i>Journal of Chemical Physics</i> , 2002, 116, 3841-3855.	3.1	137
67	DFT Study of the Active Intermediate in the Fenton Reaction. <i>Chemistry - A European Journal</i> , 2001, 7, 2775-2783.	3.9	136
68	Ground and Excited States of Zinc Phthalocyanine Studied by Density Functional Methods. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5242-5254.	2.6	133
69	Cluster studies of CO adsorption. III. CO on small Cu clusters. <i>Journal of Chemical Physics</i> , 1983, 78, 5663-5681.	3.1	131
70	Effects of Porphyrin Core Saddling, meso-Phenyl Twisting, and Counterions on the Optical Properties of meso-Tetraphenylporphyrin Diacids: The $[H_4TPP](X)_2$ ( $X = F, Cl, Br, I$ ) Series as a Case Study. <i>Journal of Physical Chemistry A</i> , 2003, 107, 11468-11482.	2.6	131
71	An Explicit Quantum Chemical Method for Modeling Large Solvation Shells Applied to Aminocoumarin C151. <i>Journal of Physical Chemistry A</i> , 2005, 109, 7805-7814.	2.6	131
72	Basis Set Effects in Density Functional Calculations on the Metal-Ligand and Metal-Metal Bonds of $Cr(CO)_5^-CO$ and $(CO)_5Mn^-Mn(CO)_5$ . <i>The Journal of Physical Chemistry</i> , 1996, 100, 5690-5696.	3.0	127

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73	One - determinantal pure state versus ensemble Kohn-Sham solutions in the case of strong electron correlation: CH <sub>2</sub> and C <sub>2</sub> . <i>Theoretical Chemistry Accounts</i> , 1998, 99, 329-343.	1.5	127
74	The Optical Spectra of NiP, NiPz, NiTBP, and NiPc: Electronic Effects of Meso-tetraaza Substitution and Tetrabenzo Annulation. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3311-3327.	2.6	127
75	Six-Dimensional Quantum Dynamics of Dissociative Chemisorption of ( $v=0, j=0$ ) H <sub>2</sub> on Cu(100). <i>Physical Review Letters</i> , 1997, 78, 3583-3586.	8.0	126
76	Assessment of a simple correction for the long-range charge-transfer problem in time-dependent density-functional theory. <i>Journal of Chemical Physics</i> , 2006, 124, 214102.	3.1	126
77	Density functional calculations of nuclear quadrupole coupling constants in the zero-order regular approximation for relativistic effects. <i>Journal of Chemical Physics</i> , 2000, 112, 8279-8292.	3.1	122
78	Physical interpretation and evaluation of the Kohn-Sham and Dyson components of the $\mu^{\text{eff}}$ relations between the Kohn-Sham orbital energies and the ionization potentials. <i>Journal of Chemical Physics</i> , 2003, 119, 1937-1950.	3.1	122
79	DFT exchange: sharing perspectives on the workhorse of quantum chemistry and materials science. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 28700-28781.	2.9	122
80	Exact Exchange-Correlation Treatment of Dissociated H <sub>2</sub> in Density Functional Theory. <i>Physical Review Letters</i> , 2001, 87, 133004.	8.0	121
81	An analytical six-dimensional potential energy surface for dissociation of molecular hydrogen on Cu(100). <i>Journal of Chemical Physics</i> , 1996, 104, 7344-7358.	3.1	120
82	Nucleophilic or Electrophilic Phosphinidene Complexes MLnPH; What Makes the Difference?. <i>Journal of the American Chemical Society</i> , 2002, 124, 2831-2838.	14.6	117
83	On the required shape corrections to the local density and generalized gradient approximations to the Kohn-Sham potentials for molecular response calculations of (hyper)polarizabilities and excitation energies. <i>Journal of Chemical Physics</i> , 2002, 116, 9591-9601.	3.1	114
84	Quadratic integration over the three-dimensional Brillouin zone. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 6721-6742.	1.9	112
85	Reactive and diffractive scattering of H <sub>2</sub> from Pt(111) studied using a six-dimensional wave packet method. <i>Journal of Chemical Physics</i> , 2002, 117, 5885-5898.	3.1	111
86	Relativistic DFT Calculations of the Paramagnetic Intermediates of [NiFe] Hydrogenase. Implications for the Enzymatic Mechanism. <i>Journal of the American Chemical Society</i> , 2001, 123, 5839-5840.	14.6	109
87	Ensuring proper short-range and asymptotic behavior of the exchange-correlation Kohn-Sham potential by modeling with a statistical average of different orbital model potentials. <i>International Journal of Quantum Chemistry</i> , 2000, 76, 407-419.	2.1	108
88	Analysis of nondynamical correlation in the metal-ligand bond. Pauli repulsion and orbital localization in MnO <sub>4</sub> <sup>2-</sup> . <i>Journal of Chemical Physics</i> , 1990, 93, 4129-4141.	3.1	106
89	Effect of molecular dissociation on the exchange-correlation Kohn-Sham potential. <i>Physical Review A</i> , 1996, 54, 1957-1972.	2.6	106
90	Density functional results for isotropic and anisotropic multipole polarizabilities and C <sub>6</sub> , C <sub>7</sub> , and C <sub>8</sub> Van der Waals dispersion coefficients for molecules. <i>Journal of Chemical Physics</i> , 1997, 106, 5091-5101.	3.1	106

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91	Molecular Kohn-Sham exchange-correlation potential from the correlated ab initio electron density. <i>Physical Review A</i> , 1995, 52, 1870-1874.	2.6	104
92	CO on Pt(111): A puzzle revisited. <i>Journal of Chemical Physics</i> , 2003, 119, 4522-4528.	3.1	103
93	The Role of Equatorial and Axial Ligands in Promoting the Activity of Non-Heme Oxidation(IV) Catalysts in Alkane Hydroxylation. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 3023-3033.	2.2	103
94	Methane-to-Methanol Oxidation by the Hydrated Iron(IV) Oxo Species in Aqueous Solution: A Combined DFT and Car-Parrinello Molecular Dynamics Study. <i>Journal of the American Chemical Society</i> , 2004, 126, 4355-4365.	14.6	102
95	Dissociation Energies, Vibrational Frequencies, and <sup>13</sup> C NMR Chemical Shifts of the 18-Electron Species [M(CO) <sub>6</sub> ] <sub>n</sub> (M = Hf, Ir, Mo, Tc, Ru, Cr, Mn, Fe). A Density Functional Study. <i>Inorganic Chemistry</i> , 1997, 36, 5031-5036.	4.2	100
96	The analog of Koopmans's theorem in spin-density functional theory. <i>Journal of Chemical Physics</i> , 2002, 117, 9154-9159.	3.1	100
97	A density matrix functional with occupation number driven treatment of dynamical and nondynamical correlation. <i>Journal of Chemical Physics</i> , 2008, 129, 164105.	3.1	99
98	Cr-CO Photodissociation in Cr(CO) <sub>6</sub> : Reassessment of the Role of Ligand-Field Excited States in the Photochemical Dissociation of Metal-Ligand Bonds. <i>Journal of the American Chemical Society</i> , 1997, 119, 7324-7329.	14.6	93
99	The origin of relativistic effects of atomic orbitals. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1989, 22, 1515-1529.	1.6	91
100	Solvation Effects on the SN <sub>2</sub> Reaction between CH <sub>3</sub> Cl and Cl <sup>-</sup> in Water. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3300-3310.	2.6	91
101	Exchange potential from the common energy denominator approximation for the Kohn-Sham Green's functions: Application to (hyper)polarizabilities of molecular chains. <i>Journal of Chemical Physics</i> , 2002, 116, 6435-6442.	3.1	91
102	Excitation energies of dissociating H <sub>2</sub> : A problematic case for the adiabatic approximation of time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2000, 113, 8478-8489.	3.1	90
103	Activation of the C-H Bond by Electrophilic Attack: Theoretical Study of the Reaction Mechanism of the Aerobic Oxidation of Alcohols to Aldehydes by the Cu(bipy) <sub>2</sub> +2,2,6,6-Tetramethylpiperidiny-1-oxyl Cocatalyst System. <i>Inorganic Chemistry</i> , 2009, 48, 11909-11920.	4.2	90
104	MSi <sub>2</sub> /Si(111) (M=Co,Ni) interface chemical bond. <i>Physical Review Letters</i> , 1988, 60, 1743-1746.	8.0	89
105	Theoretical investigation on base-induced 1,2-eliminations in the model system fluoride ion + fluoroethane. The role of the base as a catalyst. <i>Journal of the American Chemical Society</i> , 1993, 115, 9160-9173.	14.6	88
106	EPR Characteristics of the [(NC) <sub>5</sub> M(NO)] <sup>3+</sup> Ions (M = Fe, Ru, Os). Experimental and DFT Study Establishing NO as a Ligand. <i>Inorganic Chemistry</i> , 2001, 40, 5704-5707.	4.2	87
107	Time-dependent density-matrix-functional theory. <i>Physical Review A</i> , 2007, 75, .	2.6	87
108	A vibrational circular dichroism implementation within a Slater-type-orbital based density functional framework and its application to hexa- and hepta-helicenes. <i>Theoretical Chemistry Accounts</i> , 2008, 119, 245-263.	1.5	87

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109	The Effect of Microsolvation on E2 and S <sub>N</sub> 2 Reactions: Theoretical Study of the Model System F <sup>sup&gt;â</sup> + C <sub>2</sub> H <sub>5</sub> F + <i>n</i> HF. Chemistry - A European Journal, 1996, 2, 196-207.	3.9	86
110	Perspective on "Self-consistent equations including exchange and correlation effects". Theoretical Chemistry Accounts, 2000, 103, 265-269.	1.5	86
111	Robust normal modes in vibrational circular dichroism spectra. Physical Chemistry Chemical Physics, 2009, 11, 6107.	2.9	85
112	The Failure of Generalized Gradient Approximations (GGAs) and Meta-GGAs for the Two-Center Three-Electron Bonds in He <sub>2</sub> <sup>+</sup> , (H <sub>2</sub> O) <sub>2</sub> <sup>+</sup> , and (NH <sub>3</sub> ) <sub>2</sub> <sup>+</sup> . Journal of Physical Chemistry A, 2001, 105, 9211-9218.	2.6	84
113	A Car <sup>o</sup> Parrinello study of the formation of oxidizing intermediates from Fenton's reagent in aqueous solution. Physical Chemistry Chemical Physics, 2002, 4, 3619-3627.	2.9	84
114	The spin-unrestricted molecular Kohn <sup>o</sup> Sham solution and the analogue of Koopmans <sup>o</sup> theorem for open-shell molecules. Journal of Chemical Physics, 2004, 120, 8364-8372.	3.1	84
115	Molecular exchange <sup>o</sup> correlation Kohn <sup>o</sup> Sham potential and energy density from ab initio first <sup>o</sup> and second <sup>o</sup> order density matrices: Examples for XH (X=Li, B, F). Journal of Chemical Physics, 1996, 104, 8535-8545.	3.1	81
116	O <sub>2</sub> Evolution in the Fenton Reaction. Chemistry - A European Journal, 2003, 9, 3436-3444.	3.9	81
117	Vibronic coupling and double excitations in linear response time-dependent density functional calculations: Dipole-allowed states of N <sub>2</sub> . Journal of Chemical Physics, 2004, 121, 6155-6166.	3.1	81
118	Synergism of Porphyrin-Core Saddling and Twisting of meso-Aryl Substituents. Journal of Physical Chemistry A, 2006, 110, 5180-5190.	2.6	81
119	An evaluation of the density functional approach in the zero order regular approximation for relativistic effects: Magnetic interactions in small metal compounds. Journal of Chemical Physics, 2001, 114, 4421.	3.1	80
120	Calculation of harmonic frequencies and harmonic force fields by the hartree-fock-slater method. International Journal of Quantum Chemistry, 1988, 34, 173-181.	2.1	79
121	Dissociation of H <sub>2</sub> on Cu(100): Dynamics on a new two <sup>o</sup> dimensional potential energy surface. Journal of Chemical Physics, 1995, 102, 3873-3883.	3.1	79
122	A Theoretical study of the interaction of ethylene with transition metal complexes. Theoretical Chemistry Accounts, 1972, 27, 339-354.	1.5	77
123	Six-dimensional quantum dynamics of dissociative chemisorption of H <sub>2</sub> on Cu(100). Journal of Chemical Physics, 1997, 107, 3309-3323.	3.1	77
124	Benchmark calculations of chemical reactions in density functional theory: Comparison of the accurate Kohn <sup>o</sup> Sham solution with generalized gradient approximations for the H <sub>2</sub> +H and H <sub>2</sub> +H <sub>2</sub> reactions. Journal of Chemical Physics, 1999, 111, 4056-4067.	3.1	76
125	A theoretical study of the linear versus bent geometry for several MX <sub>2</sub> molecules: MgF <sub>2</sub> , CaH <sub>2</sub> , CaF <sub>2</sub> , CeO <sub>2</sub> and YbCl <sub>2</sub> . Polyhedron, 1990, 9, 1919-1934.	2.3	75
126	Effects of Complex Formation on Vibrational Circular Dichroism Spectra. Journal of Physical Chemistry A, 2008, 112, 6978-6991.	2.6	75



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127	A Density Functional Study of the Optical Spectra and Nonlinear Optical Properties of Heteroleptic Tetrapyrrole Sandwich Complexes: A The Porphyrinato $\pi$ -Porphyrinato $\pi$ -Zirconium(IV) Complex as a Case Study. <i>Journal of Physical Chemistry A</i> , 2000, 104, 635-643.	2.6	74
128	Excitation Energies of Metal Complexes with Time-dependent Density Functional Theory. <i>Structure and Bonding</i> , 2004, , 49-116.	0.0	74
129	A theoretical study of metal $\pi$ -ligand bond strengths ( $M\pi-L$ ; L = OH, OCH <sub>3</sub> , SH, NH <sub>2</sub> , PH <sub>2</sub> , CH <sub>3</sub> , SiH <sub>3</sub> , CN and) $Tj ETQq1 1 0.784314$ LCo(CO) <sub>4</sub> . <i>Polyhedron</i> , 1988, 7, 1625-1637.	2.3	73
130	Relativistic Effects for NMR Shielding Constants in Transition Metal Oxides Using the Zeroth-Order Regular Approximation. <i>Journal of Physical Chemistry A</i> , 2000, 104, 5600-5611.	2.6	73
131	Electronic spectrum of UO <sub>2</sub> <sup>2+</sup> and [UO <sub>2</sub> Cl <sub>4</sub> ] <sup>2-</sup> calculated with time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2007, 126, 194311.	3.1	73
132	Charge Transfer, Double and Bond-Breaking Excitations with Time-Dependent Density Matrix Functional Theory. <i>Physical Review Letters</i> , 2008, 101, 033004.	8.0	73
133	Kohn-Sham potentials corresponding to Slater and Gaussian basis set densities. <i>Theoretical Chemistry Accounts</i> , 1997, 98, 16-24.	1.5	72
134	What Singles out the FeO <sub>2</sub> <sup>+</sup> Moiety? A Density-Functional Theory Study of the Methane-to-Methanol Reaction Catalyzed by the First Row Transition-Metal Oxide Dications MO(H <sub>2</sub> O) <sub>2</sub> <sup>+</sup> , M = V <sup>+</sup> Cu. <i>Inorganic Chemistry</i> , 2009, 48, 3628-3638.	4.2	71
135	Energetics of intermediates and reaction steps involved in the hydroformylation reaction catalyzed by HCo(CO) <sub>4</sub> . A theoretical study based on density functional theory. <i>Journal of the American Chemical Society</i> , 1989, 111, 2018-2025.	14.6	69
136	Towards excitation energies and (hyper)polarizability calculations of large molecules. Application of parallelization and linear scaling techniques to time-dependent density functional response theory. <i>Journal of Computational Chemistry</i> , 2000, 21, 1511-1523.	3.4	68
137	Energy expressions in density-functional theory using line integrals. <i>Physical Review A</i> , 1995, 51, 170-178.	2.6	67
138	Bonding Properties of a Novel Inorganometallic Complex, Ru(SnPh <sub>3</sub> ) <sub>2</sub> (CO) <sub>2</sub> (iPr-DAB) (iPr-DAB) $Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 31$ Spectroscopy, (Spectro-) Electrochemistry, and Density Functional Calculations. <i>Inorganic Chemistry</i> , 1996, 35, 5468-5477.	4.2	67
139	Relativistic calculations to assess the ability of the generalized gradient approximation to reproduce trends in cohesive properties of solids. <i>Physical Review B</i> , 2000, 61, 1773-1778.	3.3	67
140	Reaction Path Sampling of the Reaction between Iron(II) and Hydrogen Peroxide in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7902-7910.	2.6	67
141	Vibronic Structure of the Permanganate Absorption Spectrum from Time-Dependent Density Functional Calculations. <i>Journal of Physical Chemistry A</i> , 2005, 109, 1168-1179.	2.6	66
142	Adsorption and diffusion on a stepped surface: Atomic hydrogen on Pt(211). <i>Journal of Chemical Physics</i> , 2004, 120, 11852-11863.	3.1	65
143	Modeling solvent effects on electron-spin-resonance hyperfine couplings by frozen-density embedding. <i>Journal of Chemical Physics</i> , 2005, 123, 114101.	3.1	65
144	X-ray Structure of fac-IMn(CO) <sub>3</sub> (bpy) and Electronic Structures and Transitions of the Complexes fac- $X$ Mn(CO) <sub>3</sub> (bpy) (X = Cl, I) and mer-ClMn(CO) <sub>3</sub> (bpy). <i>Inorganic Chemistry</i> , 1995, 34, 1588-1594.	4.2	64

#	ARTICLE	IF	CITATIONS
145	Density Functional Study of the Photodissociation of Mn <sub>2</sub> (CO) <sub>10</sub> . <i>Inorganic Chemistry</i> , 1996, 35, 2886-2897.	4.2	64
146	The EDTA Complex of Oxidiron(IV) as Realisation of an Optimal Ligand Environment for High Activity of FeO <sup>2+</sup> . <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 1672-1681.	2.2	63
147	A VCD robust mode analysis of induced chirality: The case of pulegone in chloroform. <i>Chirality</i> , 2009, 21, E287-97.	2.7	63
148	Model systems for initial stages in oxidative-addition reactions. Theoretical investigation of .eta.1 and .eta.2 coordination of difluorine and dihydrogen to tetrachloroplatinate(2-) and chromium pentacarbonyl. <i>Inorganic Chemistry</i> , 1990, 29, 350-354.	4.2	62
149	Mechanisms of H <sub>2</sub> dissociative adsorption on the Pt(211) stepped surface. <i>Journal of Chemical Physics</i> , 2005, 122, 194708.	3.1	62
150	Oxidative properties of FeO <sub>2</sub> <sup>+</sup> : electronic structure and solvation effects. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 156-166.	2.9	62
151	Analytic quadratic integration over the two-dimensional Brillouin zone. <i>Journal of Physics C: Solid State Physics</i> , 1988, 21, 4263-4283.	1.5	61
152	Origin and relevance of the staggering in one-dimensional molecular metals. A density functional study of metallophthalocyanine model dimers. <i>Inorganic Chemistry</i> , 1992, 31, 4717-4726.	4.2	61
153	Step structure in the atomic Kohn-Sham potential. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1995, 33, 229-238.	1.0	61
154	Four component regular relativistic Hamiltonians and the perturbational treatment of Dirac's equation. <i>Journal of Chemical Physics</i> , 1995, 102, 1758-1766.	3.1	61
155	Might BF and BNR <sub>2</sub> be alternatives to CO? A theoretical quest for new ligands in organometallic chemistry. <i>New Journal of Chemistry</i> , 1998, 22, 1-3.	2.7	61
156	Rovibrationally inelastic scattering of (v=1, j=1) H <sub>2</sub> from Cu(100): Experiment and theory. <i>Journal of Chemical Physics</i> , 2001, 114, 495.	3.1	60
157	Combined Theoretical and Experimental Deep-UV Resonance Raman Studies of Substituted Pyrenes. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2100-2106.	2.6	59
158	Understanding Solvent Effects in Vibrational Circular Dichroism Spectra: [1,1'-Binaphthalene]-2,2'-diol in Dichloromethane, Acetonitrile, and Dimethyl Sulfoxide Solvents. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8366-8373.	2.6	59
159	Kohn-Sham potentials and exchange and correlation energy densities from one- and two-electron density matrices for Li <sub>2</sub> , N <sub>2</sub> , and F <sub>2</sub> . <i>Physical Review A</i> , 1998, 57, 1729-1742.	2.6	58
160	Away from generalized gradient approximation: Orbital-dependent exchange-correlation functionals. <i>Journal of Chemical Physics</i> , 2005, 123, 062202.	3.1	58
161	Exchange-correlation energy and potential as approximate functionals of occupied and virtual Kohn-Sham orbitals: Application to dissociating H <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2003, 118, 7183.	3.1	56
162	Calculation of pressure in case of periodic boundary conditions. <i>Chemical Physics Letters</i> , 2006, 421, 138-141.	2.7	56

#	ARTICLE	IF	CITATIONS
163	Enhancement of IR and VCD intensities due to charge transfer. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1526.	2.9	56
164	Photophysics of Octabutoxy Phthalocyaninato-Ni(II) in Toluene: Ultrafast Experiments and DFT/TDDFT Studies. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2078-2089.	2.6	55
165	Excitation energies with time-dependent density matrix functional theory: Singlet two-electron systems. <i>Journal of Chemical Physics</i> , 2009, 130, 114104.	3.1	55
166	Density Functional Study of Ground and Excited States of Mn <sub>2</sub> (CO) <sub>10</sub> . <i>Inorganic Chemistry</i> , 1995, 34, 3425-3432.	4.2	54
167	Competition between vibrational excitation and dissociation in collisions of H <sub>2</sub> with Cu(100). <i>Physical Review B</i> , 1996, 53, 10397-10401.	3.3	54
168	Electronic Structure, Chemical Bond, and Optical Spectra of Metal Bis(porphyrin) Complexes: A DFT/TDDFT Study of the Bis(porphyrin)M(IV) (M = Zr, Ce, Th) Series. <i>Journal of the American Chemical Society</i> , 2002, 124, 12319-12334.	14.6	54
169	The Short N≡F Bond in N <sub>2</sub> F <sup>+</sup> and How Pauli Repulsion Influences Bond Lengths. Theoretical Study of N <sub>2</sub> X <sup>+</sup> , NF <sub>3</sub> X <sup>+</sup> , and NH <sub>3</sub> X <sup>+</sup> (X = F, H). <i>Journal of the American Chemical Society</i> , 2002, 124, 1500-1505.	14.6	54
170	Importance of vibronic effects on the circular dichroism spectrum of dimethyloxirane. <i>Journal of Chemical Physics</i> , 2005, 122, 234305.	3.1	54
171	Is [FeO] <sub>2</sub> the Active Center Also in Iron Containing Zeolites? A Density Functional Theory Study of Methane Hydroxylation Catalysis by Fe-ZSM-5 Zeolite. <i>Inorganic Chemistry</i> , 2010, 49, 3866-3880.	4.2	54
172	LCAO X.alpha. calculation of the magnetic exchange interactions in a manganese MnIVMn3III cubane complex: relevance to the water oxidation center of photosystem II. <i>Journal of the American Chemical Society</i> , 1992, 114, 6109-6119.	14.6	53
173	Physical and Theoretical (DFT) Study of the Electronically Excited Inorganometallic Complexes [Ru(E)(EaE <sub>2</sub> )(CO) <sub>2</sub> ]+ (E = Cl, Me, SnPh <sub>3</sub> ) <sup>+</sup> . <i>Journal of Physical Chemistry A</i> , 2006, 110, 8786-8796.	3.9	53
174	Exploring the Ability of Frozen-Density Embedding to Model Induced Circular Dichroism. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8786-8796.	2.6	52
175	Counterpoise correction is not useful for short and Van der Waals distances but may be useful at long range. <i>Journal of Computational Chemistry</i> , 2011, 32, 2896-2901.	3.4	52
176	Hyperthermal alkali-ion scattering from a metal surface: A theoretical study of the potential. <i>Physical Review B</i> , 1986, 34, 5030-5042.	3.3	51
177	All-electron Dirac-Fock-Slater SCF calculations for electronic and geometric structures of the Hg <sub>2</sub> and Hg <sub>3</sub> molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 2325-2331.	1.6	51
178	Structure and Bonding of the Noble Gas-Metal Carbonyl Complexes M(CO) <sub>5</sub> Ng (M = Cr, Mo, W and Ng). <i>Journal of Physical Chemistry A</i> , 1995, 99, 1000-1008.	2.6	51
179	On the errors of local density (LDA) and generalized gradient (GGA) approximations to the Kohn-Sham potential and orbital energies. <i>Journal of Chemical Physics</i> , 2016, 144, 204114.	3.1	51
180	Orbital Interactions in Hydrogen Bonds Important for Cohesion in Molecular Crystals and Mismatched Pairs of DNA Bases. <i>Crystal Growth and Design</i> , 2002, 2, 239-245.	3.2	50

#	ARTICLE	IF	CITATIONS
181	Ab initio molecular dynamics simulation of the OH radical in liquid water. <i>Chemical Physics Letters</i> , 2004, 398, 212-216.	2.7	50
182	Hydroxyl Radical and Hydroxide Ion in Liquid Water: A Comparative Electron Density Functional Theory Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23605-23610.	2.7	50
183	Structural, Optical, and Photophysical Properties of Nickel(II) Alkylthioporphyryns: Insights from Experimental and DFT/TDDFT Studies. <i>Inorganic Chemistry</i> , 2005, 44, 6609-6622.	4.2	49
184	Theoretical study on the difference in the relative strengths of metal-hydrogen and metal-methyl bonds in complexes of early transition metals and complexes of middle to late transition metals. <i>Inorganic Chemistry</i> , 1988, 27, 3458-3464.	4.2	48
185	Nuclear magnetic resonance chemical shifts with the statistical average of orbital-dependent model potentials in Kohn-Sham density functional theory. <i>Journal of Chemical Physics</i> , 2003, 118, 8584-8593.	3.1	48
186	Improved Description of Chemical Barriers with Generalized Gradient Approximations (GGAs) and Meta-GGAs. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4459-4469.	2.6	48
187	The calculation of ESR parameters by density functional theory: the g- and A-tensors of Co(acacen). <i>Chemical Physics Letters</i> , 2004, 399, 433-439.	2.7	47
188	Electronic structure of binuclear metal carbonyl complexes. <i>Faraday Symposia of the Chemical Society</i> , 1980, 14, 211.	0.5	46
189	Density Functional Study of Magnetic Coupling Parameters. Reconciling Theory and Experiment for the TiF <sub>3</sub> Complex. <i>The Journal of Physical Chemistry</i> , 1995, 99, 13094-13102.	3.0	46
190	A Square-Planar Nickel(II) Monoradical Complex with a Bis(salicylidene)diamine Ligand. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 637-642.	2.2	46
191	Oxidation of Methanol by FeO <sup>2+</sup> in Water: DFT Calculations in the Gas Phase and Ab Initio MD Simulations in Water Solution. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1000-1012.	2.6	45
192	Double excitation effect in non-adiabatic time-dependent density functional theory with an analytic construction of the exchange-correlation kernel in the common energy denominator approximation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4640.	2.9	45
193	Ligand Field Effects and the High Spin-High Reactivity Correlation in the H Abstraction by Non-Heme Iron(IV)-Oxo Complexes: A DFT Frontier Orbital Perspective. <i>ACS Catalysis</i> , 2015, 5, 1475-1488.	11.7	45
194	On the nature of the first excited states of the uranyl ion. <i>Chemical Physics Letters</i> , 1984, 105, 308-316.	2.7	44
195	Phosphinidene Complexes M(CO) <sub>5</sub> PR: A Density Functional Study on Structures and Electronic States. <i>Organometallics</i> , 1998, 17, 2738-2742.	2.6	44
196	From the Kohn-Sham band gap to the fundamental gap in solids. An integer electron approach. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15639-15656.	2.9	44
197	Dissociative chemisorption of H <sub>2</sub> on Cu(100): A four-dimensional study of the effect of parallel translational motion on the reaction dynamics. <i>Journal of Chemical Physics</i> , 1996, 105, 5979-5998.	3.1	43
198	Direct subsurface absorption of hydrogen on Pd(111): Quantum mechanical calculations on a new two-dimensional potential energy surface. <i>Journal of Chemical Physics</i> , 1997, 106, 9286-9296.	3.1	43

#	ARTICLE	IF	CITATIONS
199	Long-Range Solvent Effects on the Orbital Interaction Mechanism of Water Acidity Enhancement in Metal Ion Solutions: A Comparative Study of the Electronic Structure of Aqueous Mg and Zn Dications. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11444-11453.	2.7	43
200	Cu(bipy) <sup>2+</sup> /TEMPO-Catalyzed Oxidation of Alcohols: Radical or Nonradical Mechanism?. <i>Inorganic Chemistry</i> , 2011, 50, 11896-11904.	4.2	43
201	Electron correlation effects on the shape of the Kohn-Sham molecular orbital. <i>Theoretical Chemistry Accounts</i> , 1997, 96, 44-50.	1.5	42
202	Aufbau derived from a unified treatment of occupation numbers in Hartree-Fock, Kohn-Sham, and natural orbital theories with the Karush-Kuhn-Tucker conditions for the inequality constraints $n_i \leq 1$ and $n_i \leq \infty$ . <i>Journal of Chemical Physics</i> , 2010, 132, 194108.	3.1	42
203	Response Calculations with an Independent Particle System with an Exact One-Particle Density Matrix. <i>Physical Review Letters</i> , 2010, 105, 013002.	8.0	42
204	A Frontier Orbital Study with ab Initio Molecular Dynamics of the Effects of Solvation on Chemical Reactivity: Solvent-Induced Orbital Control in FeO-Activated Hydroxylation Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 8857-8867.	14.6	42
205	Influence of the exchange-correlation potential in density-functional calculations on polarizabilities and absorption spectra of alkali-metal clusters. <i>Physical Review A</i> , 2001, 63, .	2.6	41
206	Hydrogen Bonding in Mimics of Watson-Crick Base Pairs Involving C <sub>60</sub> H Proton Donor and F Proton Acceptor Groups: A Theoretical Study. <i>ChemPhysChem</i> , 2004, 5, 481-487.	2.3	41
207	Adiabatic approximation of time-dependent density matrix functional response theory. <i>Journal of Chemical Physics</i> , 2007, 127, 214101.	3.1	41
208	Electronic structure and bonding of dimethylmercury, mercury(II) cyanide, methylmercury cyanide, bis(1-propynyl)mercury, and methyl(trimethylphosphine)gold. <i>Journal of the American Chemical Society</i> , 1984, 106, 3387-3396.	14.6	40
209	Six-dimensional potential energy surface for H <sub>2</sub> at Ru(0001). <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 688-696.	2.9	40
210	Catalytic Oxidation of Water with High-Spin Iron(IV) Oxo Species: Role of the Water Solvent. <i>ACS Catalysis</i> , 2017, 7, 4018-4025.	11.7	40
211	Metal-to-Ligand Charge Transfer (MLCT) Photochemistry of fac-Mn(Cl)(CO) <sub>3</sub> (H-DAB): A Density Functional Study. <i>The Journal of Physical Chemistry</i> , 1996, 100, 15346-15357.	3.0	39
212	The influence of surface motion on the direct subsurface absorption of H <sub>2</sub> on Pd(111). <i>Journal of Chemical Physics</i> , 1997, 107, 10652-10661.	3.1	39
213	High temperature photoelectron spectroscopy: A study of U, UO, and UO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 1988, 89, 5363-5372.	3.1	38
214	Structural Properties of M(dmit) <sub>2</sub> -Based (M = Ni, Pd, Pt; dmit <sub>2</sub> = 2-Thioxo-1,3-dithiole-4,5-dithiolato) Molecular Metals. Insights from Density Functional Calculations. <i>Inorganic Chemistry</i> , 1998, 37, 1368-1379.	4.2	36
215	Correlation energy density from ab initio first- and second-order density matrices: A benchmark for approximate functionals. <i>Journal of Chemical Physics</i> , 1995, 103, 10085-10094.	3.1	35
216	Origin of the field-counteracting term of the Kohn-Sham exchange-correlation potential of molecular chains in an electric field. <i>Physical Review A</i> , 2000, 62, .	2.6	35

#	ARTICLE	IF	CITATIONS
217	Quantum dynamics of the dissociation of H <sub>2</sub> on Cu(100): Dependence of the site-reactivity on initial rovibrational state. <i>Faraday Discussions</i> , 2000, 117, 109-132.	3.7	35
218	Signatures of site-specific reaction of H <sub>2</sub> on Cu(100). <i>Journal of Chemical Physics</i> , 2002, 117, 6673-6687.	3.1	35
219	Response calculations based on an independent particle system with the exact one-particle density matrix: Excitation energies. <i>Journal of Chemical Physics</i> , 2012, 136, 094104.	3.1	35
220	Density functional approximations for orbital energies and total energies of molecules and solids. <i>Journal of Chemical Physics</i> , 2018, 149, 054105.	3.1	35
221	Interaction of F and Cl with silicon surfaces. <i>Physical Review B</i> , 1988, 38, 12508-12513.	3.3	34
222	Analysis of the polarizability and optical properties of. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 5087-5113.	1.6	34
223	O <sub>2</sub> Activation in a Dinuclear Fe(II)/EDTA Complex: Spin Surface Crossing As a Route to Highly Reactive Fe(IV)oxo Species. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11926-11937.	2.6	34
224	Porphyrin vs phthalocyanine metallomacrocycles based one-dimensional "molecular metals". Insights from density functional calculations. <i>Inorganic Chemistry</i> , 1993, 32, 5637-5639.	4.2	33
225	Rotational Effects on Vibrational Excitation of H <sub>2</sub> on Cu(100). <i>Physical Review Letters</i> , 1999, 82, 1410-1413.	8.0	33
226	The effect of corrugation on the quantum dynamics of dissociative and diffractive scattering of H <sub>2</sub> from Pt(111). <i>Journal of Chemical Physics</i> , 2000, 113, 8300-8312.	3.1	33
227	A dynamical study of the chemisorption of molecular hydrogen on the Cu(111) surface. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 7195-7207.	1.9	32
228	Generation of Ferryl Species through Dioxygen Activation in Iron/EDTA Systems: A Computational Study. <i>Inorganic Chemistry</i> , 2009, 48, 527-540.	4.2	32
229	Diffractive and reactive scattering of H <sub>2</sub> from Ru(0001): experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8583.	2.9	32
230	Relativistic bond lengthening of UO <sub>2</sub> <sup>2+</sup> and UO <sub>2</sub> . <i>Theoretical Chemistry Accounts</i> , 1991, 81, 139-155.	1.5	31
231	An analysis of nonlocal density functionals in chemical bonding. <i>International Journal of Quantum Chemistry</i> , 1994, 52, 711-730.	2.1	31
232	Density Functional Study of the Primary Photoprocesses of Manganese Pentacarbonyl Chloride (MnCl(CO) <sub>5</sub> ). <i>Inorganic Chemistry</i> , 1997, 36, 1541-1551.	4.2	31
233	Direct approximation of the long- and short-range components of the exchange-correlation Kohn-Sham potential. <i>International Journal of Quantum Chemistry</i> , 1997, 61, 231-243.	2.1	31
234	Molecular knife throwing: aiming for dissociation at specific surface sites through state-selection. <i>Chemical Physics Letters</i> , 2000, 328, 317-324.	2.7	31

#	ARTICLE	IF	CITATIONS
235	The density matrix functional approach to electron correlation: Dynamic and nondynamic correlation along the full dissociation coordinate. <i>Journal of Chemical Physics</i> , 2014, 140, 214105.	3.1	31
236	Analysis and modelling of atomic and molecular kohn-sham potentials. <i>Topics in Current Chemistry</i> , 1996, , 107-167.	0.0	31
237	The nature of the LUMO in Fe <sub>2</sub> (CO) <sub>6</sub> S <sub>2</sub> and the bonding in Fe <sub>2</sub> (CO) <sub>6</sub> S <sub>2</sub> <sup>2-</sup> . <i>Organometallics</i> , 1984, 3, 289-292.	2.6	30
238	Diffusion and vibration of CO molecules adsorbed on a Cu(100) surface: A periodic density functional theory study. <i>Journal of Chemical Physics</i> , 2003, 119, 509-514.	3.1	30
239	The analog of Koopmans's theorem for virtual Kohn-Sham orbital energies. <i>Canadian Journal of Chemistry</i> , 2009, 87, 1383-1391.	1.2	30
240	Dissociative and diffractive scattering of H <sub>2</sub> from Pt(111): A four-dimensional quantum dynamics study. <i>Journal of Chemical Physics</i> , 2002, 116, 9435-9448.	3.1	29
241	Six-dimensional quantum dynamics of H <sub>2</sub> dissociative adsorption on the Pt(211) stepped surface. <i>Journal of Chemical Physics</i> , 2008, 128, 194715.	3.1	29
242	The adiabatic approximation in time-dependent density matrix functional theory: Response properties from dynamics of phase-including natural orbitals. <i>Journal of Chemical Physics</i> , 2010, 133, 174119.	3.1	29
243	A new analytical potential energy surface for the adsorption system CO/Cu(100). <i>Journal of Chemical Physics</i> , 2010, 132, 074108.	3.1	29
244	Assessment of density functional methods for reaction energetics: Iridium-catalyzed water oxidation as case study. <i>Journal of Computational Chemistry</i> , 2013, 34, 870-878.	3.4	29
245	Construction of the Foldy-Wouthuysen transformation and solution of the Dirac equation using large components only. <i>Journal of Chemical Physics</i> , 1996, 105, 2373-2377.	3.1	28
246	Electronic Transition of the Di- and Trinuclear Complexes Ru(E)(E')(CO) <sub>2</sub> (iPr-DAB): Raman, Electronic Absorption, Emission, and Density Functional Study (E = Me, SnPh <sub>3</sub> , M(CO) <sub>5</sub> ; E' = ) <i>Journal of Physical Chemistry B</i> , 2005, 109, 2055-2062.	2.6	28
247	Charge Effects on the Reactivity of Oxoiron(IV) Porphyrin Species: A DFT Analysis of Methane Hydroxylation by Polycationic Compound I and Compound II Mimics. <i>ACS Catalysis</i> , 2016, 6, 568-579.	11.7	28
248	Gas-Phase Base-Induced 1,4-Eliminations: Occurrence of Single-, Double-, and Triple-Well Elimination Mechanisms. <i>Journal of the American Chemical Society</i> , 1995, 117, 9889-9899.	14.6	27
249	On the electronic structure and bonding of the polynuclear aryl derivatives of the group IB metals Cu <sub>5</sub> (C <sub>6</sub> H <sub>5</sub> ) <sub>5</sub> , Ag <sub>4</sub> (C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> and Au <sub>5</sub> (C <sub>6</sub> H <sub>5</sub> ) <sub>5</sub> by density functional theory. <i>Chemical Physics Letters</i> , 1996, 257, 41-48.	2.7	27
250	Self-Consistent-Field Method for Correlated Many-Electron Systems with an Entropic Cumulant Energy. <i>Physical Review Letters</i> , 2022, 128, 013001.	8.0	27
251	Reactive scattering of H <sub>2</sub> from Cu(100): Six-dimensional quantum dynamics results for reaction and scattering obtained with a new, accurately fitted potential-energy surface. <i>Journal of Chemical Physics</i> , 2004, 121, 11379.	3.1	26
252	First Hyperpolarizability of a Sesquifulvalene Transition Metal Complex by Time-Dependent Density-Functional Theory. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1014-1021.	2.6	26

#	ARTICLE	IF	CITATIONS
253	Signatures of counter-ion association and hydrogen bonding in vibrational circular dichroism spectra. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8811.	2.9	26
254	Effective One-Electron Potential in the Kohn-Sham Molecular Orbital Theory. <i>ACS Symposium Series</i> , 1996, , 20-41.	1.0	25
255	The Electron Affinity as the Highest Occupied Anion Orbital Energy with a Sufficiently Accurate Approximation of the Exact Kohn-Sham Potential. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 443-452.	5.6	25
256	Structural, spectroscopic and theoretical studies of novel d6 fac-bromotricarbonyl(dithiooxamide)rhenium complexes. <i>Inorganic Chemistry</i> , 1989, 28, 4104-4113.	4.2	24
257	Relativistic effect on the interatomic platinum-oxygen potential and its consequences in high energy O <sub>2</sub> /Pt(111) scattering. <i>Journal of Chemical Physics</i> , 1992, 97, 3821-3830.	3.1	24
258	Transient CO adsorption and the catalytic properties of surfaces. <i>Physical Review B</i> , 2001, 63, .	3.3	24
259	Influence of the Copper Coordination Geometry on the DNA Cleavage Activity of Clip-Phen Complexes Studied by DFT. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 612-619.	2.2	24
260	Hydroxylation Catalysis by Mononuclear and Dinuclear Iron Oxo Catalysts: a Methane Monooxygenase Model System versus the Fenton Reagent Fe <sup>IV</sup> O(H <sub>2</sub> O) <sub>5</sub> <sup>2+</sup> . <i>Inorganic Chemistry</i> , 2012, 51, 63-75.	4.2	24
261	The Importance of Large-Amplitude Motions for the Interpretation of Mid-Infrared Vibrational Absorption and Circular Dichroism Spectra: 6,6-Dibromo-[1,1'-binaphthalene]-2,2'-diol in Dimethyl Sulfoxide. <i>Journal of Physical Chemistry A</i> , 2014, 118, 4766-4777.	2.6	24
262	Asymptotic behaviour of the electron density and the Kohn-Sham potential in case of a Kohn-Sham HOMO nodal plane. <i>Molecular Physics</i> , 2016, 114, 1086-1097.	1.7	24
263	Orbital localization in transition metal molecules. <i>Theoretical Chemistry Accounts</i> , 1991, 79, 389-401.	1.5	23
264	Theoretical study of the nature of the bonding in zirconium and titanium complexes [Cp <sub>2</sub> M(μ-X)] <sub>2</sub> , where M = Zr (X = I, PH <sub>2</sub> , and NH) and M = Ti (X = Cl). <i>Organometallics</i> , 1993, 12, 2794-2805.	2.6	23
265	Dissociative adsorption of H <sub>2</sub> on Cu(100): A four-dimensional study of the effect of rotational motion on the reaction dynamics. <i>Journal of Chemical Physics</i> , 1997, 106, 4248-4259.	3.1	23
266	Dissociative adsorption of H <sub>2</sub> on Cu(100): Fixed-site calculations for impact at hollow and top sites. <i>Journal of Chemical Physics</i> , 1998, 108, 6906-6915.	3.1	23
267	The d <sub>0</sub> , d <sub>1</sub> and d <sub>2</sub> Configurations in Known and Unknown Tetrathiometal Compounds MS <sub>4</sub> n- (M = Mo, Tc,) Tj ETQq <sub>1,1</sub> 0.7843 <sub>4,2</sub> 1 <sub>23</sub> rgBT		
268	On the origin dependence of the angle made by the electric and magnetic vibrational transition dipole moment vectors. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16126.	2.9	23
269	Natural energy orbitals and the one-particle Green's function. <i>International Journal of Quantum Chemistry</i> , 1988, 34, 289-300.	2.1	22
270	A comparative study of Ar/Ag(111) potentials. <i>Journal of Chemical Physics</i> , 1994, 101, 9155-9163.	3.1	22



#	ARTICLE	IF	CITATIONS
271	On the optimal mixing of the exchange energy and the electron-electron interaction part of the exchange-correlation energy. <i>International Journal of Quantum Chemistry</i> , 1996, 60, 1375-1384.	2.1	22
272	Rotational effects in the dissociative adsorption of H <sub>2</sub> on the Pt(211) stepped surface. <i>Journal of Chemical Physics</i> , 2005, 123, 164702.	3.1	22
273	Precision of total energy and orbital energies with the expansion method for the optimized effective Kohn-Sham potential. <i>Computational and Theoretical Chemistry</i> , 2006, 762, 193-199.	1.5	22
274	A simple natural orbital mechanism of $\sigma$ -pure van der Waals interaction in the lowest excited triplet state of the hydrogen molecule. <i>Journal of Chemical Physics</i> , 2006, 124, 054115.	3.1	22
275	A correlation potential for molecular systems from the single particle Green's function. <i>Journal of Chemical Physics</i> , 1988, 89, 3638-3653.	3.1	21
276	Effect of Pauli repulsion on the molecular exchange-correlation Kohn-Sham potential: A comparative calculation of Ne <sub>2</sub> and N <sub>2</sub> . <i>Physical Review A</i> , 1998, 57, 3450-3457.	2.6	21
277	STO and GTO field-induced polarization functions for H to Kr. <i>Journal of Computational Chemistry</i> , 2003, 24, 1582-1591.	3.4	21
278	Comparison of Charge Densities and Pseudo Charge Densities for Si <sub>2</sub> . <i>Physical Review Letters</i> , 1978, 41, 197-200.	8.0	20
279	Metal-to-Ligand Charge Transfer Photochemistry: Homolysis of the Mn-Cl Bond in the mer-Mn(Cl)(CO) <sub>3</sub> (1,2-dimine) Complex and Its Absence in the fac-Isomer. <i>Inorganic Chemistry</i> , 1998, 37, 6244-6254.	4.2	20
280	Density Functional Study of Magnetic Coupling Parameters: F and H Hyperfine Splitting Constants for the Prototype Inorganic (d1) and Organic (p1) Radicals TiF <sub>3</sub> and CH <sub>3</sub> . <i>Journal of Physical Chemistry A</i> , 1999, 103, 3732-3744.	2.6	20
281	Coupled-perturbed density-matrix functional theory equations. Application to static polarizabilities. <i>Journal of Chemical Physics</i> , 2006, 124, 014102.	3.1	19
282	Oscillator strengths of electronic excitations with response theory using phase including natural orbital functionals. <i>Journal of Chemical Physics</i> , 2013, 138, 094114.	3.1	19
283	On derivatives of the energy with respect to total electron number and orbital occupation numbers. A critique of Janak's theorem. <i>Molecular Physics</i> , 2020, 118, .	1.7	19
284	Oxygen adsorption on Ag(110): density functional theory band structure calculations and dynamical simulations. <i>Surface Science</i> , 1999, 443, 1-12.	2.0	18
285	A non-JKL density matrix functional for intergeminal correlation between closed-shell geminals from analysis of natural orbital configuration interaction expansions. <i>Journal of Chemical Physics</i> , 2018, 148, 104102.	3.1	18
286	Multi-step processes in gas-phase reactions of halomethyl anions XCH <sub>2</sub> <sup>-</sup> (X = Cl, Br) with CH <sub>3</sub> X and NH <sub>3</sub> . <i>Journal of Physical Organic Chemistry</i> , 1992, 5, 179-190.	1.9	17
287	The chemisorption of hydrogen on Cu(111): A dynamical study. <i>International Journal of Quantum Chemistry</i> , 1994, 52, 1067-1080.	2.1	17
288	Structure of the optimized effective Kohn-Sham exchange potential and its gradient approximations. <i>International Journal of Quantum Chemistry</i> , 1996, 57, 17-33.	2.1	17

#	ARTICLE	IF	CITATIONS
289	Variational collapse of the optimized effective potential method with an orbital-dependent exchange-correlation functional based on second order perturbation theory. <i>Chemical Physics Letters</i> , 2006, 432, 336-342.	2.7	17
290	A natural orbital analysis of the long range behavior of chemical bonding and van der Waals interaction in singlet H <sub>2</sub> : The issue of zero natural orbital occupation numbers. <i>Journal of Chemical Physics</i> , 2013, 138, 164105.	3.1	17
291	Analysis of $\pi$ -Bonding, $\sigma$ -Bonding and the Synergic Effect in Cr(CO) <sub>6</sub> . Comparison of Hartree-Fock and $\Delta$ Results for Metal-CO Bonding. , 1986, , 159-177.		17
292	A new model for the agonistic binding site on the histamine H <sub>2</sub> -receptor: The catalytic triad in serine proteases as a model for the binding site of. <i>Journal of Molecular Graphics</i> , 1994, 12, 242-256.	1.2	16
293	Excitation energies with linear response density matrix functional theory along the dissociation coordinate of an electron-pair bond in $\pi$ -electron systems. <i>Journal of Chemical Physics</i> , 2014, 140, 024101.	3.1	16
294	Light-induced water splitting by titanium-tetrahydroxide: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20308-20321.	2.9	16
295	Hartree-Fock and Hartree-Fock-Slater electric field gradients (H <sub>2</sub> , CH <sub>4</sub> ) and their symmetry mode derivatives (CH <sub>4</sub> ). <i>Journal of Chemical Physics</i> , 1983, 79, 2970-2974.	3.1	15
296	Electronic Structure, Heisenberg Coupling Constants, and Metal-Metal Bond in Dimeric Iron(II) Organometallics with the Metal Centers at Variable Distances: A Density Functional Approach. <i>Inorganic Chemistry</i> , 1996, 35, 7776-7785.	4.2	15
297	Correct dissociation limit for the exchange-correlation energy and potential. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 3167-3177.	2.1	15
298	An abiotic analogue of the diiron(IV)oxo $\pi$ -diamond core of soluble methane monooxygenase generated by direct activation of O <sub>2</sub> in aqueous Fe(II)/EDTA solutions: thermodynamics and electronic structure. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15272.	2.9	15
299	Valence electron momentum distributions in hexacarbonylchromium from (e,2e) spectroscopy and SCF-MO calculations. <i>Inorganic Chemistry</i> , 1985, 24, 877-882.	4.2	14
300	Fermi Holes and Coulomb Holes. , 1996, , 1-46.		14
301	Role of the Fermi Surface in Adsorbate-Metal Interactions: An Energy Decomposition Analysis. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12470-12479.	2.7	14
302	Homolytic versus Heterolytic Dissociation of Alkali Metal Halides: The Effect of Microsolvation. <i>ChemPhysChem</i> , 2009, 10, 2955-2965.	2.3	14
303	Asymptotic nodal planes in the electron density and the potential in the effective equation for the square root of the density. <i>European Physical Journal B</i> , 2018, 91, 1.	1.6	14
304	Isolated excited electronic states in the unimolecular gas-phase ion dissociation processes of the radical cations of isocyanogen and cyanogen. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1991, 103, 157-168.	1.9	13
305	H <sub>2</sub> O photodissociation dynamics based on potential energy surfaces from density functional calculations. <i>Journal of Chemical Physics</i> , 1995, 103, 2538-2547.	3.1	13
306	The uranyl ion revisited: the electric field gradient at U as a probe of environmental effects. <i>Molecular Physics</i> , 2005, 103, 775-787.	1.7	13

#	ARTICLE	IF	CITATIONS
307	Chemical potential, derivative discontinuity, fractional electrons, jump of the Kohn-Sham potential, atoms as thermodynamic open systems, and other (mis)conceptions of the density functional theory of electrons in molecules. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 12745-12766.	2.9	13
308	Iron-iron $\pi$ -bonding in $\text{Fe}_2(\text{CO})_6\text{S}_2$ . <i>Inorganic Chemistry</i> , 1983, 22, 4158-4159.	4.2	12
309	The influence of molecular rotation on the direct subsurface absorption of $\text{H}_2$ on Pd(111). <i>Journal of Chemical Physics</i> , 1998, 109, 2450-2459.	3.1	12
310	On the Equivalence of Conformational and Enantiomeric Changes of Atomic Configuration for Vibrational Circular Dichroism Signs. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3454-3464.	2.6	12
311	The calculation of interaction energies using the pseudopotential Hartree-Fock-Slater-LCAO method. <i>Journal of Chemical Physics</i> , 1984, 81, 865-875.	3.1	11
312	A UV photoelectron spectroscopic and Hartree-Fock-Slater MO-LCAO study of tetracyclo[3.3.0.0 <sup>2,4</sup> .0 <sup>3,6</sup> ]oct-7-ene and related strained compounds. <i>Journal of the American Chemical Society</i> , 1984, 106, 587-590.	14.6	11
313	Symmetric Numerical Integration Formulas for Regular Polygons. <i>SIAM Journal on Numerical Analysis</i> , 1990, 27, 198-218.	2.4	11
314	Comment on "Kohn-Sham exchange-correlation potentials from second-order reduced density matrices". <i>J. Chem. Phys.</i> 143, 244116 (2015)]. <i>Journal of Chemical Physics</i> , 2016, 145, 037101.	3.1	11
315	Pauli Repulsion Effects in Scattering from and Catalysis by Surfaces. <i>NATO ASI Series Series B: Physics</i> , 1992, , 189-207.	0.0	11
316	Theoretical Study of the Relativistic Effects on the Bonds between $\text{HfCl}_3$ and H and between $\text{ThCl}_3$ and H. <i>Inorganic Chemistry</i> , 1995, 34, 238-246.	4.2	10
317	Coordinative Behavior of the CNCN Ligand. Experimental and Density Functional Study of Spectroscopic Properties and Bonding in the $\text{Cr}(\text{CO})_5\text{CNCN}$ Complex. <i>Organometallics</i> , 1997, 16, 2254-2262.	2.6	10
318	Vibrational de-excitation of $v=1$ $\text{H}_2$ during collisions with a Cu(100) surface. <i>Journal of Chemical Physics</i> , 2001, 114, 7581-7592.	3.1	10
319	Response Properties of Furan Homologues by Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10380-10390.	2.6	10
320	Solvent induced enhancement of enantiomeric excess: a case study of the Henry reaction with cinchona thiourea as the catalyst. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7315.	2.9	10
321	Natural excitation orbitals from linear response theories: Time-dependent density functional theory, time-dependent Hartree-Fock, and time-dependent natural orbital functional theory. <i>Journal of Chemical Physics</i> , 2017, 146, 044119.	3.1	10
322	Perspective on "Self-consistent equations including exchange and correlation effects", 2000, , 265-269.		10
323	$\text{M}_8(\text{I}^{1/4}\text{8-E}^2)(\text{I}^{1/4}\text{4-E})_6\text{L}_8$ Species Centered and Hexacapped by Main-Group Atoms. <i>European Journal of Inorganic Chemistry</i> , 1999, 1999, 1161-1168.	2.2	8
324	Orbital interactions and charge redistribution in weak hydrogen bonds: Watson-Crick GC mimic involving $\text{C}\ddot{\text{I}}\text{H}$ proton donor and F proton acceptor groups. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 2428-2443.	2.1	8

#	ARTICLE	IF	CITATIONS
325	Counterintuitive Coulomb hole around the bond midplane. <i>Journal of Chemical Physics</i> , 2010, 132, 204102.	3.1	8
326	On the formulation of a density matrix functional for Van der Waals interaction of like- and opposite-spin electrons in the helium dimer. <i>Journal of Chemical Physics</i> , 2012, 137, 204117.	3.1	8
327	Anion states of $\hat{1}$ - $\hat{4}$ - $\hat{e}$ -polyene iron tricarbonyl complexes. <i>Journal of Chemical Physics</i> , 1987, 87, 7001-7006.	3.1	7
328	Titanium as a Potential Addition for High-Capacity Hydrogen Storage Medium. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-9.	3.5	7
329	Response calculations based on an independent particle system with the exact one-particle density matrix: Polarizabilities. <i>Journal of Chemical Physics</i> , 2014, 140, 18A517.	3.1	7
330	Application of the Hartree-Fock-Slater Method in Photoelectron Spectroscopy. , 1984, , 415-485.		7
331	Electron pair density in the lowest $1^1u+$ and $1^1g+$ states of $H_2$ . <i>Journal of Chemical Physics</i> , 2011, 135, 074111.	3.1	6
332	Density functional theory calculation of 2p spectra of $SiH_4$ , $PH_3$ , $H_2S$ , $HCl$ , and $Ar$ . <i>International Journal of Quantum Chemistry</i> , 2008, 108, 1358-1368.	2.1	5
333	Suitability of III-V $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < mml:mrow > < mml:mrow > < mml:mo > [ < /mml:mo > < mml:mrow > < mml:mi > X < /mml:mi > < mml:msub > 3 < /mml:msub > < mml:mt > H < /mml:mt > < /mml:mrow > < /mml:mrow > < /mml:math \rangle$ for hydrogen storage: A density functional study. <i>Physical Review B</i> , 2009, 79, .	3.3	5
334	Improving numerical integration through basis set expansion. <i>Theoretical Chemistry Accounts</i> , 2004, 112, 410-418.	1.5	4
335	Exchange kernel of density functional response theory from the common energy denominator approximation (CEDA) for the Kohn-Sham Green's function. <i>Research on Chemical Intermediates</i> , 2004, 30, 87-98.	2.8	4
336	The rotation barrier in ethane. <i>Nachrichten Aus Der Chemie</i> , 2004, 52, 581-581.	0.0	4
337	Origin of the Enhanced Binding Capability toward Axial Nitrogen Bases of Ni(II) Porphyrins Bearing Electron-Withdrawing Substituents: An Electronic Structure and Bond Energy Analysis. <i>Inorganic Chemistry</i> , 2020, 59, 11528-11541.	4.2	4
338	Gas-Phase Base-Induced 1,4-Eliminations: Occurrence of Single-, Double-, and Triple-Well E1cb Mechanisms <i>J. Am. Chem. Soc.</i> 1995, 117, 9889-9899. <i>Journal of the American Chemical Society</i> , 1996, 118, 1579-1579.	14.6	3
339	Insertion of isonitrile into the Mo-C bond of $[MoCp_2(CH_3)(CNH)]^+$ : a density functional study. <i>New Journal of Chemistry</i> , 2000, 24, 289-293.	2.7	3
340	Real-space representation of electron correlation in $\pi$ -conjugated systems. <i>Journal of Chemical Physics</i> , 2015, 142, 204311.	3.1	3
341	Time-dependent Dyson orbital theory. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20945-20954.	2.9	3
342	Orbital Interactions and Chemical Reactivity of Metal Particles and Metal Surfaces. , 1991, , 323-389.		3

#	ARTICLE	IF	CITATIONS
343	Secondary Kinetic Peak in the Kohn-Sham Potential and Its Connection to the Response Step. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 4762-4773.	5.6	3
344	The Influence of Relativity on Molecular Properties: A Review of the Relativistic Hartree-Fock-Slater Method. , 1982, , 111-130.		2
345	Orbital Interactions and Chemical Reactivity of Metal Particles and Metal Surfaces. , 1991, , 323-389.		2
346	Electron Correlation and the Structure of the Exchange-correlation Potential and the Correlation Energy Density in Density Functional Theory. , 1996, , 395-413.		2
347	Line broadenings within the alkali metal hyperfine multiplets of ion pairs and triple ions. A theoretical approach. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1979, 75, 1423.	1.1	1
348	The effect of internal vibration upon deformation densities and X-ray scattering intensities in H <sub>2</sub> O and CO <sub>2</sub> . <i>Acta Crystallographica Section B: Structural Science</i> , 1986, 42, 354-358.	2.2	1
349	Complexation, Solvation, and Chirality Transfer in Vibrational Circular Dichroism. , 2011, , 747-781.		1
350	Local Density Functional Approaches to Spin Coupling in Transition Metal Clusters. , 1991, , 109-123.		1
351	Basic Aspects of Density Functional Theory. , 0, , 23-32.		0
352	Dispersion Energies with the i-DMFT Method. <i>Journal of Chemical Theory and Computation</i> , 2024, 20, 5466-5474.	5.6	0