

Hans Lischka

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5103574/publications.pdf>

Version: 2024-02-01

315
papers

16,575
citations

14614

66
h-index

20900

115
g-index

323
all docs

323
docs citations

323
times ranked

10247
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-density calculation via the graphical unitary group approach. <i>Molecular Physics</i> , 2023, 121, .	0.8	3
2	Pathways to fluorescence <i>via</i> restriction of intramolecular motion in substituted tetraphenylethylenes. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1722-1735.	1.3	8
3	Excitonic and charge transfer interactions in tetracene stacked and T-shaped dimers. <i>Journal of Chemical Physics</i> , 2021, 154, 044306.	1.2	11
4	Triple-Columned and Multiple-Layered 3D Polymers: Design, Synthesis, Aggregation-Induced Emission (AIE), and Computational Study. <i>Research</i> , 2021, 2021, 3565791.	2.8	10
5	A general new method for calculating the molecular nonpolar surface for analysis of LC-MS data. <i>International Journal of Mass Spectrometry</i> , 2021, 461, 116495.	0.7	3
6	Progress and challenges in understanding of photoluminescence properties of carbon dots based on theoretical computations. <i>Applied Materials Today</i> , 2021, 22, 100924.	2.3	57
7	Reaction mechanism for fluorination reactions with hydroxylated alumina sites: Pathways promoting aluminum combustion. <i>Journal of Chemical Physics</i> , 2021, 154, 104308.	1.2	2
8	Molecular Dynamics Simulation of the Excited-State Proton Transfer Mechanism in 3-Hydroxyflavone Using Explicit Hydration Models. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5765-5778.	1.1	10
9	Ab initio calculation of the excited states of nitropyrenes. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	0.5	2
10	Unexpected Charge Effects Strengthen "Stacking Pancake Bonding. <i>Jacs Au</i> , 2021, 1, 1647-1655.	3.6	15
11	Exploration of Graphene Defect Reactivity toward a Hydrogen Radical Utilizing a Preactivated Circumcoronene Model. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1152-1165.	1.1	10
12	Adsorption process of polar and nonpolar compounds in a nanopore model of humic substances. <i>European Journal of Soil Science</i> , 2020, 71, 845-855.	1.8	11
13	Dynamics of Pyrene-Dimer Association and Ensuing Pyrene-Dimer Dissociation. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8907-8917.	1.1	17
14	Cycloaddition of Strained Cyclic Alkenes and <i>Ortho</i> -Quinones: A Distortion/Interaction Analysis. <i>Journal of Organic Chemistry</i> , 2020, 85, 13557-13566.	1.7	8
15	Tuning the UV spectrum of PAHs by means of different N-doping types taking pyrene as paradigmatic example: categorization <i>via</i> valence bond theory and high-level computational approaches. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22003-22015.	1.3	10
16	Doping Capabilities of Fluorine on the UV Absorption and Emission Spectra of Pyrene-Based Graphene Quantum Dots. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10954-10966.	1.1	9
17	Energy transfer mechanism in luminescence Eu(III) and Tb(III) complexes of coumarin-3-carboxylic acid: A theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 240, 118591.	2.0	12
18	Effects on the aromaticity and on the biradicaloid nature of acenes by the inclusion of a cyclobutadiene linkage. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	5

#	ARTICLE	IF	CITATIONS
19	Conformational Behavior and Optical Properties of a Fluorophore Dimer as a Model of Luminescent Centers in Carbon Dots. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14327-14337.	1.5	25
20	A computational study of the ground and excited state acidities of synthetic analogs of red wine pyranoanthocyanins. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	9
21	Diradical Organic One-Dimensional Polymers Synthesized on a Metallic Surface. <i>Angewandte Chemie</i> , 2020, 132, 17747-17752.	1.6	14
22	Memorial Viewpoint for William L. Hase. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4183-4184.	1.1	0
23	Diradical Organic One-Dimensional Polymers Synthesized on a Metallic Surface. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17594-17599.	7.2	33
24	Interplay of Biradicaloid Character and Singlet/Triplet Energy Splitting for <i>cis</i> -/ <i>trans</i> -Diindenoacenes and Related Benzothiophene-Capped Oligomers as Revealed by Extended Multireference Calculations. <i>Journal of Organic Chemistry</i> , 2020, 85, 3664-3675.	1.7	16
25	Benchmark ab initio calculations on intermolecular structures and the exciton character of poly(<i>p</i> -phenylenevinylene) dimers. <i>Journal of Chemical Physics</i> , 2020, 152, 044306.	1.2	5
26	The generality of the GUGA MRCI approach in COLUMBUS for treating complex quantum chemistry. <i>Journal of Chemical Physics</i> , 2020, 152, 134110.	1.2	42
27	Multi-layer 3D chirality: new synthesis, AIE and computational studies. <i>Science China Chemistry</i> , 2020, 63, 692-698.	4.2	27
28	A systematic analysis of excitonic properties to seek optimal singlet fission: the BN-substitution patterns in tetracene. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7793-7804.	2.7	22
29	Nonadiabatic Dynamics of Charge-Transfer States Using the Anthracene-Tetracyanoethylene Complex as a Prototype. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3347-3357.	1.1	13
30	Theoretical analysis of the stabilization of graphene nanosheets by means of strongly polarized pyrene derivatives. <i>Chemical Physics</i> , 2019, 527, 110468.	0.9	5
31	Characterization of glycan isomers using magnetic carbon nanoparticles as a MALDI co-matrix. <i>RSC Advances</i> , 2019, 9, 20137-20148.	1.7	13
32	Microhydration of Polymer Electrolyte Membranes: A Comparison of Hydrogen-Bonding Networks and Spectral Properties of Nafion and Bis[(perfluoroalkyl)sulfonyl] Imide. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9899-9911.	1.2	3
33	Emission Energies and Stokes Shifts for Single Polycyclic Aromatic Hydrocarbon Sheets in Comparison to the Effect of Excimer Formation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5592-5597.	2.1	18
34	The electronic transitions of analogs of red wine pyranoanthocyanin pigments. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 45-53.	1.6	16
35	The characterization of electronic defect states of single and double carbon vacancies in graphene sheets using molecular density functional theory. <i>Molecular Physics</i> , 2019, 117, 1519-1531.	0.8	10
36	Solvent effect on Al(III) hydrolysis constants from density functional theory. <i>Molecular Physics</i> , 2019, 117, 1507-1518.	0.8	0

#	ARTICLE	IF	CITATIONS
37	Dynamics of benzene excimer formation from the parallel-displaced dimer. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13916-13924.	1.3	23
38	Conical intersections and the weak fluorescence of betalains. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1972-1981.	1.6	3
39	Introduction of polar or nonpolar groups at the hydroquinone units can lead to the destruction of the columnar structure of Pillar[5]arenes. <i>Computational and Theoretical Chemistry</i> , 2019, 1161, 1-9.	1.1	11
40	Characterization of Charge Transfer in Excited States of Extended Clusters of π -Stacked Donor and Acceptor Complexes in Lock-Arm Supramolecular Ordering. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4532-4542.	1.1	7
41	Quantum chemical evidence for the origin of the red/blue colors of <i>Hydrangea macrophylla</i> sepals. <i>New Journal of Chemistry</i> , 2019, 43, 7532-7540.	1.4	7
42	Excited states and excitonic interactions in prototypic polycyclic aromatic hydrocarbon dimers as models for graphitic interactions in carbon dots. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9077-9088.	1.3	34
43	High-level theoretical benchmark investigations of the UV-vis absorption spectra of paradigmatic polycyclic aromatic hydrocarbons as models for graphene quantum dots. <i>Journal of Chemical Physics</i> , 2019, 150, 124302.	1.2	35
44	A Multireference Ab Initio Study of the Diradical Isomers of Pyrazine. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2049-2057.	1.1	9
45	Kinetics of the Strain-Promoted Oxidation-Controlled Cycloalkyne-1,2-quinone Cycloaddition: Experimental and Theoretical Studies. <i>Journal of Organic Chemistry</i> , 2018, 83, 244-252.	1.7	24
46	The crucial role of a spacer material on the efficiency of charge transfer processes in organic donor-acceptor junction solar cells. <i>Nanoscale</i> , 2018, 10, 451-459.	2.8	5
47	Analysis of charge transfer transitions in stacked π -electron donor-acceptor complexes. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26957-26967.	1.3	19
48	Electronic structure theory gives insights into the higher efficiency of the PTB electron-donor polymers for organic photovoltaics in comparison with prototypical P3HT. <i>Journal of Chemical Physics</i> , 2018, 149, 184905.	1.2	2
49	Interplay between Aromaticity and Radicaloid Character in Nitrogen-Doped Oligoacenes Revealed by High-Level Multireference Methods. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9464-9473.	1.1	6
50	The effect of hydrogen bonding on the nonadiabatic dynamics of a thymine-water cluster. <i>Chemical Physics</i> , 2018, 515, 472-479.	0.9	13
51	Multireference Approaches for Excited States of Molecules. <i>Chemical Reviews</i> , 2018, 118, 7293-7361.	23.0	287
52	Tuning the Biradicaloid Nature of Polycyclic Aromatic Hydrocarbons: The Effect of Graphitic Nitrogen Doping in Zethrenes. <i>ChemPhysChem</i> , 2018, 19, 2492-2499.	1.0	11
53	Model Systems for Dynamics of π -Conjugated Biomolecules in Excited States. , 2017, , 1697-1739.		1
54	Cation- π interactions in competition with cation microhydration: a theoretical study of alkali metal cation-pyrene complexes. <i>Journal of Molecular Modeling</i> , 2017, 23, 131.	0.8	12

#	ARTICLE	IF	CITATIONS
55	Local Electron Correlation Treatment in Extended Multireference Calculations: Effect of Acceptorâ€“Donor Substituents on the Biradical Character of the Polycyclic Aromatic Hydrocarbon Heptazethrene. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2612-2622.	2.3	13
56	Highâ€“Level <i>Ab Initio</i> Absorption Spectra Simulations of Neutral, Anionic and Neutral+ Chromophore of Green Fluorescence Protein Chromophore Models in Gas Phase and Solution. <i>Photochemistry and Photobiology</i> , 2017, 93, 1356-1367.	1.3	4
57	Evaluation of the quasi correlated tight-binding (QCTB) model for describing polyradical character in polycyclic hydrocarbons. <i>Journal of Chemical Physics</i> , 2017, 146, 064106.	1.2	21
58	<i>scf</i> grange function method for energy optimization directly in the space of natural orbitals. <i>International Journal of Quantum Chemistry</i> , 2017, 117, e25376.	1.0	3
59	Investigation of the ozone formation reaction pathway: Comparisons of full configuration interaction quantum Monte Carlo and fixed-node diffusion Monte Carlo with contracted and uncontracted MRCI. <i>Journal of Chemical Physics</i> , 2017, 147, 094306.	1.2	10
60	Singlet L_a and L_b Bands for N-Acenes ($N = 2-7$): A CASSCF/CASPT2 Study. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 4297-4306.	2.3	30
61	Structure and electronic states of a graphene double vacancy with an embedded Si dopant. <i>Journal of Chemical Physics</i> , 2017, 147, 194702.	1.2	9
62	How to efficiently tune the biradicaloid nature of acenes by chemical doping with boron and nitrogen. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19225-19233.	1.3	23
63	Single and double carbon vacancies in pyrene as first models for graphene defects: A survey of the chemical reactivity toward hydrogen. <i>Chemical Physics</i> , 2017, 482, 346-354.	0.9	9
64	New Insights into the State Trapping of UV-Excited Thymine. <i>Molecules</i> , 2016, 21, 1603.	1.7	31
65	The Antiferromagnetic Spin Coupling in Nonâ€“KekulÃ© Acenesâ€“Impressive Polyradical Character Revealed by Highâ€“Level Multireference Methods. <i>ChemPhysChem</i> , 2016, 17, 2013-2021.	1.0	4
66	<i>scf</i> Molcas 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. <i>Journal of Computational Chemistry</i> , 2016, 37, 506-541.	1.5	1,317
67	Insight into the Excited State Electronic and Structural Properties of the Organic Photovoltaic Donor Polymer Poly(thieno[3,4- <i>b</i>]thiophene benzodithiophene) by Means of <i>ab Initio</i> and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21818-21826.	1.5	22
68	Ï€-Ï€ stacking between polyaromatic hydrocarbon sheets beyond dispersion interactions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22300-22310.	1.3	57
69	Polyradical Character of Triangular Non-KekulÃ© Structures, Zethrenes, <i>p</i> -Quinodimethane-Linked Bisphenalenyl, and the Clar Goblet in Comparison: An Extended Multireference Study. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1625-1636.	1.1	91
70	Model Systems for Dynamics of Ï€-Conjugated Biomolecules in Excited States. , 2016, , 1-43.		0
71	Intramolecular Charge-Transfer Excited-State Processes in 4-(<i>N,N</i> -Dimethylamino)benzonitrile: The Role of Twisting and the Ï€ [*] State. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6232-6243.	1.1	60
72	Why water makes 2-aminopurine fluorescent?. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15452-15459.	1.3	28

#	ARTICLE	IF	CITATIONS
73	Absorption and Fluorescence Spectra of Poly(<i>p</i> -phenylenevinylene) (PPV) Oligomers: An <i>ab Initio</i> Simulation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1787-1795.	1.1	22
74	The electronic states of a double carbon vacancy defect in pyrene: a model study for graphene. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12778-12785.	1.3	17
75	A comparison of neutral and charged species of one- and two-dimensional models of graphene nanoribbons using multireference theory. <i>Journal of Chemical Physics</i> , 2015, 142, 054302.	1.2	15
76	Concave or convex π -dimers: the role of the pancake bond in substituted phenalenyl radical dimers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23963-23969.	1.3	40
77	Hydrogen Abstraction from the Hydrazine Molecule by an Oxygen Atom. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1628-1635.	1.1	12
78	Thermochemical and Kinetics of Hydrazine Dehydrogenation by an Oxygen Atom in Hydrazine-Rich Systems: A Dimer Model. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12607-12614.	1.1	7
79	A Multireference Configuration Interaction Study of the Photodynamics of Nitroethylene. <i>Journal of Physical Chemistry A</i> , 2014, 118, 12011-12020.	1.1	7
80	Study of the Diradicaloid Character in a Prototypical Pancake-Bonded Dimer: The Stacked Tetracyanoethylene (TCNE) Anion Dimer and the Neutral K_2 TCNE Complex. <i>ChemPhysChem</i> , 2014, 15, 165-176.	1.0	43
81	Perturbational treatment of spin-orbit coupling for generally applicable high-level multi-reference methods. <i>Journal of Chemical Physics</i> , 2014, 141, 074105.	1.2	33
82	The Diverse Manifold of Electronic States Generated by a Single Carbon Defect in a Graphene Sheet: Multireference Calculations Using a Pyrene Defect Model. <i>ChemPhysChem</i> , 2014, 15, 3334-3341.	1.0	10
83	Nonadiabatic dynamics study of methaniminium with ORMAS: Challenges of incomplete active spaces in dynamics simulations. <i>Computational and Theoretical Chemistry</i> , 2014, 1040-1041, 158-166.	1.1	6
84	Radical sites in humic acids: A theoretical study on protocatechuic and gallic acids. <i>Computational and Theoretical Chemistry</i> , 2014, 1032, 42-49.	1.1	22
85	Comparison of multireference configuration interaction potential energy surfaces for H_2O_2 : the effect of internal contraction. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	21
86	Proton transfer processes in polar regions of humic substances initiated by aqueous aluminum cation bridges: A computational study. <i>Geoderma</i> , 2014, 213, 115-123.	2.3	12
87	Intermolecular interactions and charge transfer transitions in aromatic hydrocarbon-tetracyanoethylene complexes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20586-20597.	1.3	43
88	Double Pancake Bonds: Pushing the Limits of Strong π - π Stacking Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 12958-12965.	6.6	74
89	Electronic Excitation Processes in Single-Strand and Double-Strand DNA: A Computational Approach. <i>Topics in Current Chemistry</i> , 2014, 356, 1-37.	4.0	20
90	Surface Hopping Dynamics with Correlated Single-Reference Methods: 9H-Adenine as a Case Study. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1395-1405.	2.3	170

#	ARTICLE	IF	CITATIONS
91	A comparison of singlet and triplet states for one- and two-dimensional graphene nanoribbons using multireference theory. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	0.5	56
92	Rotational Barrier in Phenalenyl Neutral Radical Dimer: Separating Pancake and van der Waals Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 5539-5542.	6.6	120
93	Direct Dynamics Simulation of the Activation and Dissociation of 1,5-Dinitrobiuret (HDNB). <i>Journal of Physical Chemistry A</i> , 2014, 118, 2228-2236.	1.1	12
94	Comparison of LC-TDDFT and ADC(2) Methods in Computations of Bright and Charge Transfer States in Stacked Oligothiophenes. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3280-3289.	2.3	54
95	NewtonX: a surface hopping program for nonadiabatic molecular dynamics. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2014, 4, 26-33.	6.2	370
96	Molecular Models of Cation and Water Molecule Bridges in Humic Substances. , 2014, , 107-115.		4
97	Ab Initio Modeling of Excitonic and Charge-Transfer States in Organic Semiconductors: The PTB1/PCBM Low Band Gap System. <i>Journal of the American Chemical Society</i> , 2013, 135, 18252-18255.	6.6	59
98	Comparison of Cluster, Slab, and Analytic Potential Models for the Dimethyl Methylphosphonate (DMMP)/TiO ₂ (110) Intermolecular Interaction. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17613-17622.	1.5	18
99	Multiscale Simulation of the Ground and Photo-Induced Charge-Separated States of a Molecular Triad in Polar Organic Solvent: Exploring the Conformations, Fluctuations, and Free Energy Landscapes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12065-12075.	1.2	21
100	The effect of dimerization on the excited state behavior of methylated xanthine derivatives: a computational study. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1496.	1.6	5
101	Electronic excitation and structural relaxation of the adenine dinucleotide in gas phase and solution. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1440-1452.	1.6	46
102	The Multiradical Character of One- and Two-Dimensional Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2581-2584.	7.2	197
103	Synthesis, Spectroscopy, and Computational Analysis of Photoluminescent Bis(aminophenyl)-Substituted Thiophene Derivatives. <i>ChemPhysChem</i> , 2013, 14, 1016-1024.	1.0	18
104	Nonadiabatic Photodynamics of a Retinal Model in Polar and Nonpolar Environment. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2790-2799.	1.1	55
105	Electronically Excited States in Poly(p-phenylenevinylene): Vertical Excitations and Torsional Potentials from High-Level Ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2181-2189.	1.1	65
106	Ultrafast non-adiabatic dynamics of ethylene including Rydberg states. <i>Molecular Physics</i> , 2013, 111, 2439-2450.	0.8	41
107	Cis-trans photoisomerization of azobenzene upon excitation to the S ₁ state: an ab initio molecular dynamics and QM/MM study. <i>Proceedings of SPIE</i> , 2012, , .	0.8	2
108	O ₂ +C ₂ H ₄ potential energy surface: lowest-lying singlet at the multireference level. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	5

#	ARTICLE	IF	CITATIONS
109	Surface hopping dynamics using a locally diabatic formalism: Charge transfer in the ethylene dimer cation and excited state dynamics in the 2-pyridone dimer. <i>Journal of Chemical Physics</i> , 2012, 137, 22A514.	1.2	173
110	Multiconfiguration Self-Consistent Field and Multireference Configuration Interaction Methods and Applications. <i>Chemical Reviews</i> , 2012, 112, 108-181.	23.0	559
111	The stability of the acetic acid dimer in microhydrated environments and in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4162.	1.3	18
112	Critical appraisal of excited state nonadiabatic dynamics simulations of 9 <i>H</i> -adenine. <i>Journal of Chemical Physics</i> , 2012, 137, 22A503.	1.2	102
113	Laser pulse trains for controlling excited state dynamics of adenine in water. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4687.	1.3	23
114	Strikingly Different Effects of Hydrogen Bonding on the Photodynamics of Individual Nucleobases in DNA: Comparison of Guanine and Cytosine. <i>Journal of the American Chemical Society</i> , 2012, 134, 13662-13669.	6.6	31
115	Direct dynamics simulation of dioxetane formation and decomposition via the singlet $\text{O}^1\text{CH}_2\text{CH}_2\text{O}^1$ biradical: Non-RRKM dynamics. <i>Journal of Chemical Physics</i> , 2012, 137, 044305.	1.2	22
116	QM/MM non-adiabatic decay dynamics of formamide in polar and non-polar solvents. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13262.	1.3	11
117	Analysis of Excitonic and Charge Transfer Interactions from Quantum Chemical Calculations. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2777-2789.	2.3	375
118	Non-adiabatic excited state dynamics of riboflavin after photoexcitation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8693.	1.3	21
119	UV Absorption Spectrum of Alternating DNA Duplexes. Analysis of Excitonic and Charge Transfer Interactions. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11151-11160.	1.1	70
120	Electronic spectra of nitroethylene. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 1225-1232.	1.0	10
121	Model Systems for Dynamics of π -Conjugated Biomolecules in Excited States. , 2012, , 1175-1213.		3
122	The effect of hydrogen bonding on the excited-state proton transfer in 2-(2-hydroxyphenyl)benzothiazole: a TDDFT molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9016.	1.3	69
123	$\text{O}^1\text{C}_2\text{H}_4$ potential energy surface: excited states and biradicals at the multireference level. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	8
124	Proton exchange reactions of C_2C_4 alkanes sorbed in ZSM-5 zeolite. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	11
125	Electronically excited states and photodynamics: a continuing challenge. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	77
126	Electronically excited states and photodynamics: a continuing challenge. , 2012, , 147-160.		1

#	ARTICLE	IF	CITATIONS
127	Methyl and Pentyl Chloride in a Microhydrated Environment and at the Liquid Water ^v Vapor Interface: A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1807-1816.	1.2	8
128	Molecular Dynamics Simulations of Water Molecule-Bridges in Polar Domains of Humic Acids. <i>Environmental Science & Technology</i> , 2011, 45, 8411-8419.	4.6	54
129	Excited-State Intermolecular Proton Transfer Reactions of 7-Azaindole(MeOH) _n (<i>n</i> = 1-3) Clusters in the Gas phase: On-the-Fly Dynamics Simulation. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14129-14136.	1.1	45
130	Computational and Methodological Elements for Nonadiabatic Trajectory Dynamics Simulations of Molecules. <i>Advanced Series in Physical Chemistry</i> , 2011, , 415-462.	1.5	18
131	Photodynamical simulations of cytosine: characterization of the ultrafast bi-exponential UV deactivation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6145.	1.3	84
132	Nonadiabatic Dynamics of Uracil: Population Split among Different Decay Mechanisms. <i>Journal of Physical Chemistry A</i> , 2011, 115, 5247-5255.	1.1	84
133	The decay mechanism of photoexcited guanine ^v A nonadiabatic dynamics study. <i>Journal of Chemical Physics</i> , 2011, 134, 014304.	1.2	70
134	Semiclassical dynamics simulations of charge transport in stacked π -systems. <i>Journal of Chemical Physics</i> , 2011, 134, 034309.	1.2	27
135	Nonadiabatic Molecular Dynamics Study of the <i>cis</i> \rightarrow <i>trans</i> Photoisomerization of Azobenzene Excited to the <i>S</i> ₁ State. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11136-11143.	1.1	109
136	Study of solvent effect on the stability of water bridge-linked carboxyl groups in humic acid models. <i>Geoderma</i> , 2011, 169, 20-26.	2.3	26
137	Wettability of kaolinite (001) surfaces ^v Molecular dynamic study. <i>Geoderma</i> , 2011, 169, 47-54.	2.3	176
138	Absorption and Fluorescence of PRODAN in Phospholipid Bilayers: A Combined Quantum Mechanics and Classical Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11428-11437.	1.1	43
139	Columbus ^v a program system for advanced multireference theory calculations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011, 1, 191-199.	6.2	171
140	Sorption of Selected Aromatic Substances ^v Application of Kinetic Concepts and Quantum Mechanical Modeling. <i>Water, Air, and Soil Pollution</i> , 2011, 215, 449-464.	1.1	4
141	Theoretical study of the excitation spectrum of azomethane. <i>Chemical Physics</i> , 2011, 380, 9-16.	0.9	13
142	The functionality of cation bridges for binding polar groups in soil aggregates. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 1531-1542.	1.0	46
143	Influence of the active space on CASSCF nonadiabatic dynamics simulations. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 3307-3315.	1.0	20
144	The charge ^v transfer states in a stacked nucleobase dimer complex: A benchmark study. <i>Journal of Computational Chemistry</i> , 2011, 32, 1217-1227.	1.5	73

#	ARTICLE	IF	CITATIONS
145	Photodynamics of the adenine model 4-aminopyrimidine embedded within double strand of DNA. Collection of Czechoslovak Chemical Communications, 2011, 76, 631-643.	1.0	10
146	A grid services cloud for molecular modelling workflows. International Journal of Web and Grid Services, 2010, 6, 176.	0.4	10
147	Formamide as the Model Compound for Photodissociation Studies of the Peptide Bond. Challenges and Advances in Computational Chemistry and Physics, 2010, , 77-106.	0.6	7
148	Singlet and triplet potential surfaces for the O ₂ +C ₂ H ₄ reaction. Journal of Chemical Physics, 2010, 133, 184306.	1.2	17
149	The photodynamics of 2,4-diaminopyrimidine in comparison with 4-aminopyrimidine: The effect of amino-substitution. Chemical Physics Letters, 2010, 497, 129-134.	1.2	16
150	Non-adiabatic dynamics of pyrrole: Dependence of deactivation mechanisms on the excitation energy. Chemical Physics, 2010, 375, 26-34.	0.9	124
151	The effect of hydration on the photo-deactivation pathways of 4-aminopyrimidine. Chemical Physics, 2010, 375, 110-117.	0.9	14
152	Thermodynamic stability of hydrogen-bonded systems in polar and nonpolar environments. Journal of Computational Chemistry, 2010, 31, 2046-2055.	1.5	24
153	TORSIONAL POTENTIALS AND FULL-DIMENSIONAL SIMULATION OF ELECTRONIC ABSORPTION SPECTRA OF <i>para</i> -PHENYLENEVINYLENE OLIGOMERS USING SEMIEMPIRICAL HAMILTONIANS. Journal of Theoretical and Computational Chemistry, 2010, 09, 249-263.	1.8	13
154	Does Stacking Restrain the Photodynamics of Individual Nucleobases?. Journal of the American Chemical Society, 2010, 132, 8261-8263.	6.6	67
155	Photodynamics of Azomethane: A Nonadiabatic Surface-Hopping Study. Journal of Physical Chemistry A, 2010, 114, 8778-8785.	1.1	34
156	Azomethane: Nonadiabatic Photodynamical Simulations in Solution. Journal of Physical Chemistry A, 2010, 114, 12585-12590.	1.1	43
157	Nonadiabatic Excited-State Dynamics with Hybrid ab Initio Quantum-Mechanical/Molecular-Mechanical Methods: Solvation of the Pentadieniminium Cation in Apolar Media. Journal of Physical Chemistry A, 2010, 114, 6757-6765.	1.1	74
158	Relaxation mechanisms of UV-photoexcited DNA and RNA nucleobases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21453-21458.	3.3	362
159	The UV absorption of nucleobases: semi-classical ab initio spectra simulations. Physical Chemistry Chemical Physics, 2010, 12, 4959.	1.3	208
160	Solvatochromic and Ionochromic Effects of Iron(II)bis(1,10-phenanthroline)dicyano: a Theoretical Study. Inorganic Chemistry, 2010, 49, 1634-1646.	1.9	26
161	Supporting Molecular Modeling Workflows within a Grid Services Cloud. Lecture Notes in Computer Science, 2010, , 13-28.	1.0	4
162	The effect of C5 substitution on the photochemistry of uracil. Physical Chemistry Chemical Physics, 2010, 12, 4924.	1.3	19

#	ARTICLE	IF	CITATIONS
163	Effect of substituents on the excited-state dynamics of the modified DNA bases 2,4-diaminopyrimidine and 2,6-diaminopurine. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5375.	1.3	29
164	Photostability and solvation: photodynamics of microsolvated zwitterionic glycine. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4906.	1.3	10
165	Matrix-controlled photofragmentation of formamide: dynamics simulation in argon by nonadiabatic QM/MM method. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12719.	1.3	29
166	Dynamics starting at a conical intersection: Application to the photochemistry of pyrrole. <i>Journal of Chemical Physics</i> , 2009, 131, 024312.	1.2	54
167	Excited-State Diproton Transfer in [2,2'-Bipyridyl]-3,3'-diol: the Mechanism Is Sequential, Not Concerted. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8490-8499.	1.1	110
168	The electronically excited states of RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine): Vertical excitations. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 2348-2355.	1.0	27
169	Model study on sorption of polycyclic aromatic hydrocarbons to goethite. <i>Journal of Colloid and Interface Science</i> , 2009, 330, 244-249.	5.0	37
170	Optimization of mixed quantum-classical dynamics: Time-derivative coupling terms and selected couplings. <i>Chemical Physics</i> , 2009, 356, 147-152.	0.9	106
171	Theoretical Study of the Relations between Structure and Photophysical Properties of Model Oligofluorenes with Central Keto Defect. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14141-14149.	1.1	9
172	Stabilizing Capacity of Water Bridges in Nanopore Segments of Humic Substances: A Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16468-16475.	1.5	47
173	O(³ P) + C ₂ H ₄ Potential Energy Surface: Study at the Multireference Level. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12663-12674.	1.1	21
174	The Isomerization Barrier in Cyanocyclobutadienes: An ab Initio Multireference Average Quadratic Coupled Cluster Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8351-8358.	1.1	11
175	Is the Photoinduced Isomerization in Retinal Protonated Schiff Bases a Single- or Double-Torsional Process?. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11907-11918.	1.1	39
176	Photodynamics Simulations of Thymine: Relaxation into the First Excited Singlet State. <i>Journal of Physical Chemistry A</i> , 2009, 113, 12686-12693.	1.1	85
177	Excited-state non-adiabatic dynamics simulations of pyrrole. <i>Molecular Physics</i> , 2009, 107, 845-854.	0.8	65
178	Multiple adsorption of NO on cobalt-exchanged chabazite, mordenite, and ferrierite zeolites: A periodic density functional theory study. <i>Journal of Chemical Physics</i> , 2009, 131, 054101.	1.2	8
179	Ultrafast internal conversion pathway and mechanism in 2-(2-hydroxyphenyl)benzothiazole: a case study for excited-state intramolecular proton transfer systems. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1406.	1.3	174
180	UV excitation and radiationless deactivation of imidazole. <i>Journal of Chemical Physics</i> , 2009, 130, 034305.	1.2	58

#	ARTICLE	IF	CITATIONS
181	Quantum chemical calculations of electronically excited states: formamide, its protonated form and alkali cation complexes as case studies. <i>Monatshefte für Chemie</i> , 2008, 139, 319-328.	0.9	20
182	Conical intersections and strong nonadiabatic coupling effects in singlet-excited acetylene: An ab initio quantum dynamical study. <i>Chemical Physics</i> , 2008, 343, 319-328.	0.9	11
183	Theoretical investigation of the mode-specific induced non-radiative decay in 2-pyridone. <i>Chemical Physics</i> , 2008, 349, 278-286.	0.9	16
184	The interplay of skeletal deformations and ultrafast excited-state intramolecular proton transfer: Experimental and theoretical investigation of 10-hydroxybenzo[h]quinoline. <i>Chemical Physics</i> , 2008, 347, 446-461.	0.9	91
185	The thermodynamic stability of hydrogen bonded and cation bridged complexes of humic acid models – A theoretical study. <i>Chemical Physics</i> , 2008, 349, 69-76.	0.9	37
186	The accuracy of molecular bond lengths computed by multireference electronic structure methods. <i>Chemical Physics</i> , 2008, 349, 37-57.	0.9	27
187	Photodissociation Pathways of Acetone Upon Excitation Into the 3s Rydberg State: Adiabatic Versus Diabatic Mechanism. <i>Collection of Czechoslovak Chemical Communications</i> , 2008, 73, 1475-1494.	1.0	6
188	Nonadiabatic Deactivation of 9 <i>H</i> -Adenine: A Comprehensive Picture Based on Mixed Quantum-Classical Dynamics. <i>Journal of the American Chemical Society</i> , 2008, 130, 6831-6839.	6.6	191
189	Experimental and Theoretical Study of Model Ladder Fluoranthenopyracylene with Two-Dimensional π -Conjugation upon Charging: Structure and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3949-3958.	1.5	4
190	An extended multireference study of the electronic states of para-benzyne. <i>Journal of Chemical Physics</i> , 2008, 129, 044306.	1.2	45
191	Torsional potentials and full-dimensional simulation of electronic absorption and fluorescence spectra of para-phenylene oligomers using the semiempirical self-consistent charge density-functional tight binding approach. <i>Journal of Chemical Physics</i> , 2008, 129, 164905.	1.2	21
192	Mechanism of Ultrafast Photodecay in Restricted Motions in Protonated Schiff Bases: The Pentadieniminium Cation. <i>Journal of Chemical Theory and Computation</i> , 2008, 4, 1189-1199.	2.3	32
193	Acid-base properties of a goethite surface model: A theoretical view. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3587-3602.	1.6	50
194	Nonadiabatic excited-state dynamics of polar π -systems and related model compounds of biological relevance. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 482-494.	1.3	80
195	Nonadiabatic Excited-State Dynamics of Aromatic Heterocycles: Toward the Time-Resolved Simulation of Nucleobases. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2008, , 209-235.	0.6	4
196	Hydrogen Bonds And Solvent Effects In Soil Processes: A Theoretical View. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2008, , 321-347.	0.6	1
197	On the ground and some low-lying excited states of ScB: A multiconfigurational study. <i>Journal of Chemical Physics</i> , 2007, 126, 214311.	1.2	10
198	Electronic Excitations in a Ladder Type Fluoranthenopyracylene in its Neutral and Charged States: A Theoretical and Experimental Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007, 221, 911-928.	1.4	0

#	ARTICLE	IF	CITATIONS
199	On the optical properties of fluoranthropyrylene ladder type molecule series. <i>Synthetic Metals</i> , 2007, 157, 214-221.	2.1	5
200	Ab initio calculations of relative stabilities of different structural arrangements in dioctahedral phyllosilicates. <i>Clays and Clay Minerals</i> , 2007, 55, 220-232.	0.6	24
201	Simulation of the photodeactivation of formamide in the nO ⁻ and ⁻ states: An ab initio on-the-fly surface-hopping dynamics study. <i>Journal of Chemical Physics</i> , 2007, 127, 234303.	1.2	46
202	Quantum Chemical Adsorption Studies on the (110) Surface of the Mineral Goethite. <i>Journal of Physical Chemistry C</i> , 2007, 111, 877-885.	1.5	39
203	Dependence of Optical Properties of Oligo-para-phenylenes on Torsional Modes and Chain Length. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7954-7962.	1.2	62
204	Can the Nonadiabatic Photodynamics of Aminopyrimidine Be a Model for the Ultrafast Deactivation of Adenine?. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2852-2858.	1.1	67
205	An Ab Initio Study of the Excited States, Isomerization Energy Profiles and Conical Intersections of a Chiral Cyclohexylidene Derivative. <i>Journal of Physical Chemistry A</i> , 2007, 111, 238-243.	1.1	17
206	Excited-State Proton Transfer in 7-Hydroxy-4-methylcoumarin along a Hydrogen-Bonded Water Wire. <i>Journal of Physical Chemistry A</i> , 2007, 111, 127-135.	1.1	43
207	Theoretical Study of Metal ⁺ Ligand Interaction in Sm(III), Eu(III), and Tb(III) Complexes of Coumarin-3-Carboxylic Acid in the Gas Phase and Solution. <i>Inorganic Chemistry</i> , 2007, 46, 10926-10936.	1.9	27
208	Excited state properties, fluorescence energies, and lifetime of a poly(fluorene-pyridine) copolymer, based on TD-DFT investigation. <i>Journal of Computational Chemistry</i> , 2007, 28, 1735-1742.	1.5	17
209	[2.2.2]Propellane Isomerization by Grob Rearrangement: An Ab Initio MR-AQCC Study. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 3173-3178.	1.2	11
210	The on-the-fly surface-hopping program system Newton-X: Application to ab initio simulation of the nonadiabatic photodynamics of benchmark systems. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 190, 228-240.	2.0	422
211	Interaction of the 2,4-dichlorophenoxyacetic acid herbicide with soil organic matter moieties: a theoretical study. <i>European Journal of Soil Science</i> , 2007, 58, 889-899.	1.8	40
212	Nonadiabatic Ab Initio Surface-Hopping Dynamics Calculation in a Grid Environment – First Experiences. , 2007, , 281-294.		2
213	Ultrafast two-step process in the non-adiabatic relaxation of the CH ₂ molecule. <i>Molecular Physics</i> , 2006, 104, 1053-1060.	0.8	64
214	The nonadiabatic deactivation paths of pyrrole. <i>Journal of Chemical Physics</i> , 2006, 125, 164323.	1.2	101
215	Multiple pathways in the photodynamics of a polar σ -bond: A case study of silaethylene. <i>Chemical Physics Letters</i> , 2006, 418, 377-382.	1.2	30
216	Excited-State Properties and Environmental Effects for Protonated Schiff Bases: A Theoretical Study. <i>ChemPhysChem</i> , 2006, 7, 2089-2096.	1.0	43

#	ARTICLE	IF	CITATIONS
217	Automerization reaction of cyclobutadiene and its barrier height: An ab initio benchmark multireference average-quadratic coupled cluster study. <i>Journal of Chemical Physics</i> , 2006, 125, 064310.	1.2	101
218	Ab initio nonadiabatic dynamics study of ultrafast radiationless decay over conical intersections illustrated on the Na ₃ F cluster. <i>Journal of Chemical Physics</i> , 2006, 125, 024303.	1.2	40
219	High-Level Quantum Chemical Methods for the Study of Photochemical Processes. <i>Lecture Notes in Computer Science</i> , 2005, , 1004-1011.	1.0	5
220	A wave-packet simulation of the low-lying singlet electronic transitions of acetylene. <i>Journal of Chemical Physics</i> , 2005, 122, 184312.	1.2	14
221	Theoretical Study of Vibrational and Optical Spectra of Methylene-Bridged Oligofluorenes. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10232-10238.	1.1	129
222	A Multireference Configuration Interaction Investigation of the Excited-State Energy Surfaces of Fluoroethylene (C ₂ H ₃ F). <i>Journal of Physical Chemistry A</i> , 2005, 109, 5168-5175.	1.1	41
223	Sorption of naphthalene derivatives to soils from a long-term field experiment. <i>Chemosphere</i> , 2005, 59, 639-647.	4.2	23
224	Excited-State Intramolecular Proton Transfer: A Survey of TDDFT and RI-CC2 Excited-State Potential Energy Surfaces. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3201-3208.	1.1	175
225	Spectral broadening and diffusion by torsional motion in biphenyl. <i>Journal of Chemical Physics</i> , 2005, 123, 144311.	1.2	69
226	Excited State Properties of 7-Hydroxy-4-methylcoumarin in the Gas Phase and in Solution. A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2005, 109, 11860-11869.	1.1	62
227	Solvent effects in electronically excited states using the continuum solvation model COSMO in combination with multireference configuration interaction with singles and doubles (MR-CISD). <i>Theoretical Chemistry Accounts</i> , 2004, 111, 78-89.	0.5	46
228	A systematic theoretical investigation of the lowest valence- and Rydberg-excited singlet states of trans-butadiene. The character of the 1 1 B u (V) state revisited. <i>Theoretical Chemistry Accounts</i> , 2004, 112, 16-26.	0.5	44
229	On the Bond-Stretch Isomerism in the Benzo[1,2:4,5]dicyclobutadiene System—An ab initio MR-AQCC Study. <i>ChemPhysChem</i> , 2004, 5, 975-981.	1.0	18
230	The Diels–Alder Reaction of Ethene and 1,3-Butadiene: An Extended Multireference ab initio Investigation. <i>ChemPhysChem</i> , 2004, 5, 1365-1371.	1.0	47
231	Analytic evaluation of nonadiabatic coupling terms at the MR-CI level. II. Minima on the crossing seam: Formaldehyde and the photodimerization of ethylene. <i>Journal of Chemical Physics</i> , 2004, 120, 7330-7339.	1.2	216
232	Ab Initio MR-CISD Study of Gas-Phase Basicity of Formamide in the First Excited Singlet State. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10317-10325.	1.1	24
233	Modeling Catalytic Effects of Clay Mineral Surfaces on Peptide Bond Formation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10120-10130.	1.2	36
234	Multireference CI Study of Excitation Energies and Potential Energy Surfaces of CH ₃ F. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3111-3118.	1.1	9

#	ARTICLE	IF	CITATIONS
235	Analytic evaluation of nonadiabatic coupling terms at the MR-CI level. I. Formalism. Journal of Chemical Physics, 2004, 120, 7322-7329.	1.2	290
236	Ab Initio Molecular Dynamics Study of a Monomolecular Water Layer on Octahedral and Tetrahedral Kaolinite Surfaces. Journal of Physical Chemistry B, 2004, 108, 5930-5936.	1.2	146
237	SORPTION OF PHENOXYACETIC ACID HERBICIDES ON THE KAOLINITE MINERAL SURFACE – AN AB INITIO MOLECULAR DYNAMICS SIMULATION. Soil Science, 2004, 169, 44-54.	0.9	26
238	Adsorption of organic substances on broken clay surfaces: A quantum chemical study. Journal of Computational Chemistry, 2003, 24, 1853-1863.	1.5	39
239	Valence and Rydberg states of protonated formaldehyde. Chemical Physics Letters, 2003, 374, 587-593.	1.2	10
240	Revisiting the stationary points on the potential energy surface of tetramethylene at the MR-AQCC level using analytic gradients. Journal of Chemical Physics, 2003, 118, 10963-10972.	1.2	11
241	Cope Rearrangement of 1,5-Hexadiene: Full Geometry Optimizations Using Analytic MR-CISD and MR-AQCC Gradient Methods. Journal of Physical Chemistry A, 2003, 107, 1175-1180.	1.1	27
242	The valence-excited states T1–T4 and S1–S2 of acetylene: A high-level MR-CISD and MR-AQCC investigation of stationary points, potential energy surfaces, and surface crossings. Journal of Chemical Physics, 2003, 118, 1702-1713.	1.2	45
243	Potential-energy surfaces for charge exchange between singly charged ions and a LiF surface. Physical Review A, 2003, 68, .	1.0	8
244	MR-CISD and MR-AQCC Calculation of Excited States of Malonaldehyde: Geometry Optimizations Using Analytical Energy Gradient Methods and a Systematic Investigation of Reference Configuration Sets. Collection of Czechoslovak Chemical Communications, 2003, 68, 447-462.	1.0	10
245	Solvent Effects on Hydrogen Bonds A Theoretical Study. Journal of Physical Chemistry A, 2002, 106, 1862-1871.	1.1	167
246	Theoretical Study of Adsorption Sites on the (001) Surfaces of 1:1 Clay Minerals. Langmuir, 2002, 18, 139-147.	1.6	106
247	Ab Initio Molecular Dynamics Study of Adsorption Sites on the (001) Surfaces of 1:1 Dioctahedral Clay Minerals. Journal of Physical Chemistry B, 2002, 106, 11515-11525.	1.2	105
248	Reducing I/O costs for the eigenvalue procedure in large-scale configuration interaction calculations. Journal of Computational Chemistry, 2002, 23, 1121-1125.	1.5	12
249	Determination of energy minima and saddle points using multireference configuration interaction methods in combination with reduced gradient following: The S0 surface of H2CO and the T1 and T2 surfaces of acetylene. Journal of Computational Chemistry, 2002, 23, 576-583.	1.5	41
250	High-level multireference methods in the quantum-chemistry program system COLUMBUS: Analytic MR-CISD and MR-AQCC gradients and MR-AQCC-LRT for excited states, GUGA spin-orbit CI and parallel CI density. Physical Chemistry Chemical Physics, 2001, 3, 664-673.	1.3	401
251	A density-functional investigation of aluminium(III)–citrate complexes. Physical Chemistry Chemical Physics, 2001, 3, 1979-1985.	1.3	41
252	A systematic theoretical investigation of the valence excited states of the diatomic molecules B 2 , C 2 , N 2 and O 2. Theoretical Chemistry Accounts, 2001, 105, 227-243.	0.5	110

#	ARTICLE	IF	CITATIONS
253	Simultaneous calculation of Rydberg and valence excited states of formaldehyde. <i>Theoretical Chemistry Accounts</i> , 2001, 106, 369-378.	0.5	23
254	Response of sorption processes of MCPA to the amount and origin of organic matter in a long-term field experiment. <i>European Journal of Soil Science</i> , 2001, 52, 279-286.	1.8	45
255	Geometry optimization of excited valence states of formaldehyde using analytical multireference configuration interaction singles and doubles and multireference averaged quadratic coupled-cluster gradients, and the conical intersection formed by the $1\sigma_g^2[1]B[1](\tilde{f}-\tilde{g}[\sup \hat{-}])$ and $2\sigma_g^2[1]A[1](\tilde{f}-\tilde{g}[\sup \hat{-}])$ states. <i>Journal of Chemical Physics</i> , 2001, 114, 746.	1.2	38
256	Bk approximation applied to the multireference configuration interaction method. <i>International Journal of Quantum Chemistry</i> , 2000, 76, 185-196.	1.0	5
257	Excitation energies and transition moments by the multireference averaged quadratic coupled cluster (MR-AQCC) method. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2067-2073.	1.3	68
258	Interaction of Acetate Anion with Hydrated Al_3+ Cation: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2000, 104, 6824-6833.	1.1	44
259	The barrier topography of the $H+F_2$ potential energy surface. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 513-521.	1.3	14
260	A density functional theoretical study on solvated Al_3+ oxalate complexes: structures and thermodynamic properties. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2845-2850.	1.3	30
261	The ethylene $1\sigma_g^2 1u\sigma_g^2$ state revisited. <i>Journal of Chemical Physics</i> , 1999, 110, 7176-7184.	1.2	86
262	A systematic ab initio investigation of the open and ring structures of ozone. <i>Chemical Physics Letters</i> , 1998, 293, 72-80.	1.2	53
263	Combined ab initio and density functional study on polaron to bipolaron transitions in oligophenyls and oligothiophenes. <i>Journal of Chemical Physics</i> , 1997, 107, 3021-3031.	1.2	52
264	A massively parallel multireference configuration interaction program: The parallel COLUMBUS program. <i>Journal of Computational Chemistry</i> , 1997, 18, 430-448.	1.5	69
265	A massively parallel multireference configuration interaction program: The parallel COLUMBUS program. , 1997, 18, 430.		6
266	A Comparison of Variational and Coupled-Cluster Calculations of Molecular Properties: The Polarizabilities of BeO , $1\sigma_g^+$, and C_2 , $1\sigma_g^+$, $3\sigma_u$, and $3\sigma_g^-$. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6325-6331.	2.9	19
267	An ab initio study of the vibrational spectra of Li-doped thiophene, bithiophene, benzene and biphenyl as model systems for (bi)polaronic defects. <i>Computational and Theoretical Chemistry</i> , 1996, 364, 15-31.	1.5	22
268	Lithium- and chlorine-doped biphenyl dimers as models for interchain polarons and bipolarons a density functional study. <i>Chemical Physics Letters</i> , 1996, 257, 592-600.	1.2	13
269	Isomerization of cyanoborane anion. <i>Chemical Physics Letters</i> , 1995, 241, 261-266.	1.2	6
270	Ab initio calculation of stationary points for the ground and the first excited state of HCO . <i>International Journal of Quantum Chemistry</i> , 1995, 55, 261-268.	1.0	12

#	ARTICLE	IF	CITATIONS
271	Parallel computing in quantum chemistry – Message passing and beyond for a general ab initio program system. <i>Future Generation Computer Systems</i> , 1995, 11, 445-450.	4.9	2
272	An ab initio investigation of the charge-transfer complexes of alkali atoms with oligo (\pm) thiophenes and oligoparaphenylenes: A model calculation on polaronic and bipolaronic defect structures. <i>Journal of Chemical Physics</i> , 1995, 103, 1508-1522.	1.2	45
273	An efficient data compression method for the Davidson subspace diagonalization scheme. <i>Theoretica Chimica Acta</i> , 1995, 92, 339-349.	0.9	10
274	Parallel computing in quantum chemistry – message passing and beyond for a general ab initio program system. , 1994, , 203-209.		4
275	Structure and harmonic vibrational frequencies of cyclopentadiene in the lowest singlet states. <i>Computational and Theoretical Chemistry</i> , 1994, 303, 71-82.	1.5	8
276	Ab initio Study of the Potential Curves for CO ($X1^+$), CH ($X2^+$) and OH ($X2^+$). <i>Collection of Czechoslovak Chemical Communications</i> , 1994, 59, 1241-1250.	1.0	1
277	A parallel implementation of the COLUMBUS multireference configuration interaction program. <i>Theoretica Chimica Acta</i> , 1993, 84, 489-509.	0.9	43
278	Ab initio studies on heterocyclic conjugated polymers: Structure and vibrational spectra of pyrrole, oligopyrroles, and polypyrrole. <i>Journal of Chemical Physics</i> , 1992, 96, 4464-4473.	1.2	70
279	From butadiene to polyacetylene: An ab initio study on the vibrational spectra of polyenes. <i>Journal of Chemical Physics</i> , 1992, 96, 982-996.	1.2	40
280	Ab initio studies on heterocyclic conjugated polymers: structure and vibrational spectra of thiophene, oligothiophenes and polythiophene. <i>Computational and Theoretical Chemistry</i> , 1992, 259, 181-198.	1.5	83
281	Gauche-versus s-cis-butadiene revisited: a molecular dynamics simulation of the Ar matrix effect. <i>Chemical Physics Letters</i> , 1992, 189, 281-286.	1.2	23
282	Ab initio studies on hydrogen-bonded trimers: structure and vibrational spectra of HCN(HF) ₂ and (HCN) ₂ HF. <i>Computational and Theoretical Chemistry</i> , 1991, 227, 337-350.	1.5	3
283	An ab initio calculation of the intramolecular stretching spectra for the HF dimer and its D-substituted isotopic species. <i>Journal of Chemical Physics</i> , 1990, 93, 6266-6280.	1.2	68
284	Linear versus cyclic (HCN) ₃ : An ab initio study on structure, vibrational spectra, and infrared intensities. <i>Journal of Chemical Physics</i> , 1990, 92, 2469-2477.	1.2	40
285	An ab initio calculation of the stretching energies for the HF dimer. <i>Journal of Chemical Physics</i> , 1990, 92, 7432-7440.	1.2	62
286	An ab initio semirigid bender calculation of the rotation and trans-tunneling spectra of (HF) ₂ and (DF) ₂ . <i>Journal of Chemical Physics</i> , 1989, 91, 5154-5159.	1.2	59
287	A theoretical calculation of the rotation-vibration energies for lithium hydroxide, LiOH. <i>Journal of Molecular Spectroscopy</i> , 1989, 135, 89-104.	0.4	16
288	Coupled pair functional study on the hydrogen fluoride dimer. I. Energy surface and characterization of stationary points. <i>Chemical Physics</i> , 1988, 121, 137-153.	0.9	102

#	ARTICLE	IF	CITATIONS
289	A progress report on the status of the COLUMBUSMRCI program system. International Journal of Quantum Chemistry, 1988, 34, 149-165.	1.0	353
290	An analytical six-dimensional potential energy surface for (HF) ₂ from ab initio calculations. Journal of Chemical Physics, 1988, 89, 3002-3007.	1.2	87
291	Ab initio studies on hydrogen-bonded clusters. I. Linear and cyclic oligomers of hydrogen cyanide. Chemical Physics, 1987, 113, 53-64.	0.9	83
292	Ab initio calculations on the excited states of π -systems. I. Valence excitations in acetylene. Chemical Physics, 1986, 102, 77-89.	0.9	73
293	Ab initio calculations on the excited states of π -systems. II. Valence excitations in diacetylene. Chemical Physics, 1986, 102, 91-102.	0.9	21
294	Implementation of an electronic structure program system on the CYBER 205. Journal of Computational Chemistry, 1985, 6, 200-208.	1.5	143
295	Bridged structures in multiply bonded silicon compounds: Disilyne, protonated disilyne and disilene. Chemical Physics Letters, 1984, 112, 33-40.	1.2	57
296	Quantenchemische Untersuchungen an einfachen siliciumanalogen Kohlenwasserstoffen; Disilen. Zeitschrift für Chemie, 1984, 24, 155-156.	0.0	0
297	The structure of protonated disilene. Chemical Physics Letters, 1983, 98, 454-456.	1.2	16
298	Ab initio investigation on the lowest singlet and triplet state of disilyne (Si ₂ H ₂). Journal of the American Chemical Society, 1983, 105, 6646-6649.	6.6	142
299	A systematic investigation on the structure and stability of the lowest singlet and triplet states of Si ₂ H ₄ and SiH ₃ SiH and the carbon analogous compounds SiH ₂ CH ₂ , SiH ₃ CH, CH ₃ SiH, C ₂ H ₄ , and CH ₃ CH. Journal of the American Chemical Society, 1982, 104, 5884-5889.	6.6	75
300	On the structure and stability of singlet and triplet disilene and silylsilylene. Chemical Physics Letters, 1982, 85, 467-471.	1.2	57
301	A coupled Hartree-Fock study on nuclear magnetic shielding in (HF) ₂ and (H ₂ O) ₂ . Chemical Physics Letters, 1981, 84, 94-98.	1.2	13
302	New implementation of the graphical unitary group approach for multireference direct configuration interaction calculations. International Journal of Quantum Chemistry, 1981, 20, 91-100.	1.0	68
303	A note on the AB initio calculation of intermolecular potentials: the HF dimer. Chemical Physics Letters, 1979, 66, 108-110.	1.2	63
304	The C ₂ H ₃ ⁺ cation and its interaction with HF. Theoretica Chimica Acta, 1979, 54, 23-34.	0.9	4
305	A theoretical investigation on the systems C ₂ H ₅ O ⁺ and C ₂ H ₅ S ⁺ . Chemical Physics Letters, 1979, 63, 326-331.	1.2	10
306	Theoretical investigations on carbocations. Structure and stability of C ₃ H ₅ ⁺ , C ₄ H ₉ ⁺ (2-butyl cation), C ₅ H ₅ ⁺ , C ₆ H ₇ ⁺ (protonated benzene), and C ₇ H ₁₁ ⁺ (2-norbornyl cation). Journal of the American Chemical Society, 1979, 101, 3479-3486.	6.6	92

#	ARTICLE	IF	CITATIONS
307	The theory of intermolecular force - survey of results. Pure and Applied Chemistry, 1979, 51, 1627-1636.	0.9	11
308	Ab initio calculations including electron correlation, and mindo/3 calculations on the system C ₂ H ⁺ . Chemical Physics Letters, 1978, 58, 175-179.	1.2	28
309	Structure and stability of the carbocations C ₂ H ₃ ⁺ and C ₂ H ₄ X ⁺ , X = hydrogen, fluorine, chlorine, and methyl. Ab initio investigation including electron correlation and a comparison with MINDO/3 results. Journal of the American Chemical Society, 1978, 100, 5297-5305.	6.6	120
310	Electronic structure and proton affinity of methylenephosphorane by ab initio methods including electron correlation. Journal of the American Chemical Society, 1977, 99, 353-360.	6.6	73
311	Ab-initio- und semiempirische LCAO-MO-Berechnungen mit Berücksichtigung der Elektronenkorrelation zum Energieprofil der H-Verschiebung im Ethylkation. Zeitschrift für Chemie, 1977, 17, 67-68.	0.0	9
312	Molecular species in liquid carboxylic acids. Chemical Physics Letters, 1976, 40, 66-71.	1.2	8
313	Ab initio calculations on intermolecular forces. III. Effect of electron correlation on the hydrogen bond in the hydrofluoric acid dimer. Journal of the American Chemical Society, 1974, 96, 4761-4766.	6.6	87
314	Ab initio calculations on small hydrides including electron correlation. Theoretica Chimica Acta, 1973, 31, 39-48.	0.9	54
315	AB initio calculations on intermolecular forces. The systems He-HF and He-H ₂ O. Chemical Physics Letters, 1973, 20, 448-453.	1.2	29