List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Photosensitization mechanisms at the air–water interface of aqueous aerosols. Chemical Science, 2022, 13, 2624-2631.	7.4	17
2	Reactivity of Undissociated Molecular Nitric Acid at the Air–Water Interface. Journal of the American Chemical Society, 2021, 143, 453-462.	13.7	14
3	Tight electrostatic regulation of the OH production rate from the photolysis of hydrogen peroxide adsorbed on surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	9
4	Mechanistic insights into lysine-targeting covalent inhibition through a theoretical study of ester aminolysis. Organic and Biomolecular Chemistry, 2021, 19, 9996-10004.	2.8	1
5	Midair transformations of aerosols. Science, 2021, 374, 686-687.	12.6	3
6	Molecular reactions at aqueous interfaces. Nature Reviews Chemistry, 2020, 4, 459-475.	30.2	149
7	The Aqueous Surface as an Efficient Transient Stop for the Reactivity of Gaseous NO <sub>2</sub> in Liquid Water. Journal of the American Chemical Society, 2020, 142, 20937-20941.	13.7	17
8	Photoinduced Oxidation Reactions at the Air–Water Interface. Journal of the American Chemical Society, 2020, 142, 16140-16155.	13.7	38
9	Isoprene Reactivity on Water Surfaces from ab initio QM/MM Molecular Dynamics Simulations. ChemPhysChem, 2020, 21, 2263-2271.	2.1	6
10	Vibrational Sum-Frequency Generation Spectroscopy in the Energy Representation from Dual-Level Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2020, 124, 5675-5683.	2.5	1
11	Fast and Accurate Quantum Crystallography: From Small to Large, from Light to Heavy. Journal of Physical Chemistry Letters, 2019, 10, 6973-6982.	4.6	48
12	A New Mechanism of Acid Rain Generation from HOSO at the Air–Water Interface. Journal of the American Chemical Society, 2019, 141, 16564-16568.	13.7	39
13	Photochemistry of HOSO radical in the gas phase. Journal of Chemical Physics, 2019, 151, 111103.	3.0	13
14	Theoretical Investigation of the Photoexcited NO <sub>2</sub> +H <sub>2</sub> O reaction at the Air–Water Interface and Its Atmospheric Implications. Chemistry - A European Journal, 2019, 25, 13899-13904.	3.3	14
15	Vibrational Spectroscopy in Solution through Perturbative ab Initio Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2019, 15, 4615-4622.	5.3	9
16	Molecular insights into the carbon dioxide–carboxylate anion interactions and implications for carbon capture. Theoretical Chemistry Accounts, 2019, 138, 1.	1.4	3
17	Triplet state promoted reaction of SO <sub>2</sub> with H <sub>2</sub> O by competition between proton coupled electron transfer (pcet) and hydrogen atom transfer (hat) processes. Physical Chemistry Chemical Physics, 2019, 21, 9779-9784.	2.8	27
18	Transition-Metal-Free Approach for the Direct Arylation of Thiophene: Experimental and Theoretical Investigations towards the (Het)-Aryne Route. European Journal of Organic Chemistry, 2019, 2019, 547-556.	2.4	9

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19	Electronic Interactions in Iminophosphorane Superbase Complexes with Carbon Dioxide. Journal of Physical Chemistry A, 2018, 122, 1764-1770.	2.5	3
20	Photochemistry of SO <sub>2</sub> at the Air–Water Interface: A Source of OH and HOSO Radicals. Journal of the American Chemical Society, 2018, 140, 12341-12344.	13.7	42
21	Cost-Effective Method for Free-Energy Minimization in Complex Systems with Elaborated Ab Initio Potentials. Journal of Chemical Theory and Computation, 2018, 14, 3262-3271.	5.3	7
22	Reaching multiâ€nanosecond timescales in combined QM/MM molecular dynamics simulations through parallel horsetail sampling. Journal of Computational Chemistry, 2017, 38, 659-668.	3.3	19
23	The atmospheric oxidation of CH <sub>3</sub> OOH by the OH radical: the effect of water vapor. Physical Chemistry Chemical Physics, 2017, 19, 12331-12342.	2.8	28
24	Highly accurate computation of free energies in complex systems through horsetail QM/MM molecular dynamics combined with free-energy perturbation theory. Theoretical Chemistry Accounts, 2017, 136, 1.	1.4	9
25	In vivo and in silico evaluation of a new nitric oxide donor, S,S′ -dinitrosobucillamine. Nitric Oxide - Biology and Chemistry, 2017, 71, 32-43.	2.7	3
26	Physical Chemistry in France. ChemPhysChem, 2017, 18, 2558-2559.	2.1	0
27	Modeling Solvation in Supercritical CO <sub>2</sub> . ChemPhysChem, 2017, 18, 2560-2572.	2.1	30
28	Foreword to the special issue on the "Electronic Structure: Principles and Applications (ESPA 2016)― Conference. Theoretical Chemistry Accounts, 2017, 136, 1.	1.4	0
29	Impacts of cloud water droplets on the OH production rate from peroxide photolysis. Physical Chemistry Chemical Physics, 2017, 19, 31621-31627.	2.8	11
30	Computational Insights into the CH <sub>3</sub> Cl+OH Chemical Reaction Dynamics at the Air–Water Interface. ChemPhysChem, 2017, 18, 2747-2755.	2.1	4
31	Geometry-dependent distributed polarizability models for the water molecule. Journal of Chemical Physics, 2016, 144, 034304.	3.0	8
32	The second Born approximation for the double ionization of N2by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 135203.	1.5	1
33	Dipole and quadrupole polarizabilities of the water molecule as a function of geometry. Journal of Computational Chemistry, 2016, 37, 2125-2132.	3.3	17
34	Angular distributions in the double ionization of DNA bases by electron impact. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 225201.	1.5	7
35	Driving Forces Controlling Host–Guest Recognition in Supercritical Carbon Dioxide Solvent. Chemistry - A European Journal, 2016, 22, 2972-2979.	3.3	10
36	Structure and Stability Studies of Pharmacologically Relevant <i>S</i> -Nitrosothiols: A Theoretical Approach. Journal of Physical Chemistry A, 2016, 120, 4191-4200.	2.5	18

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37	Libraries of Extremely Localized Molecular Orbitals. 1. Model Molecules Approximation and Molecular Orbitals Transferability. Journal of Chemical Theory and Computation, 2016, 12, 1052-1067.	5.3	64
38	Structure of hydrogen tetroxide in gas phase and in aqueous environments: relationship to the hydroperoxyl radical self-reaction. Structural Chemistry, 2016, 27, 231-242.	2.0	8
39	Libraries of Extremely Localized Molecular Orbitals. 2. Comparison with the Pseudoatoms Transferability. Journal of Chemical Theory and Computation, 2016, 12, 1068-1081.	5.3	48
40	Preface to the ESPA-2014 special issue. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	0
41	Reactivity of aldehydes at the air–water interface. Insights from molecular dynamics simulations and ab initio calculations. Organic and Biomolecular Chemistry, 2015, 13, 1673-1679.	2.8	23
42	Interconnection of Reactive Oxygen Species Chemistry across the Interfaces of Atmospheric, Environmental, and Biological Processes. Accounts of Chemical Research, 2015, 48, 575-583.	15.6	90
43	Solvation effects on electronic polarization and reactivity indices at the air–water interface: insights from a theoretical study of cyanophenols. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	13
44	Unraveling the intramolecular cyclization mechanism of oxidized tryptophan in aqueous solution as a function of pH. Organic and Biomolecular Chemistry, 2015, 13, 8695-8702.	2.8	4
45	Hydration Effect on Amide I Infrared Bands in Water: An Interpretation Based on an Interaction Energy Decomposition Scheme. Journal of Physical Chemistry B, 2015, 119, 9056-9067.	2.6	14
46	Advances in QM/MM Molecular Dynamics Simulations of Chemical Processes at Aqueous Interfaces. Challenges and Advances in Computational Chemistry and Physics, 2015, , 303-324.	0.6	5
47	Evolution of the Coordinationâ€Sphere Symmetry in Copper(II), Nickel(II), and Zinc(II) Complexes with <i>N</i> , <i>N′</i> â€Doubleâ€Armed Diaza rown Ethers: Experimental and Theoretical Approaches. European Journal of Inorganic Chemistry, 2014, 2014, 4934-4945.	2.0	9
48	Theoretical insights on electron donor–acceptor interactions involving carbon dioxide. Chemical Physics Letters, 2014, 601, 98-102.	2.6	14
49	Correlated <i>ab initio</i> molecular dynamics simulations of the acetone–carbon dioxide complex: implications for solubility in supercritical CO <sub>2</sub> . Molecular Simulation, 2014, 40, 154-159.	2.0	8
50	Toward Bis <i>C</i> , <i>C</i> â€Glycosyl Compounds and Anomeric γâ€Glycoamino Acids through Michael Addition Reaction of Nitromethane on <i>Z</i> / <i>E</i> Pushâ€Pull Sugar Olefins. European Journal of Organic Chemistry, 2014, 2014, 7364-7376.	2.4	9
51	Water interactions with hydrophobic groups: Assessment and recalibration of semiempirical molecular orbital methods. Journal of Chemical Physics, 2014, 141, 034106.	3.0	16
52	Spectroscopic signatures of ozone at the air–water interface and photochemistry implications. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11618-11623.	7.1	58
53	An ab initio analysis of the structure of l-tryptophan tautomers in microhydrated environments, in water and in hydrophobic solvents. Computational and Theoretical Chemistry, 2014, 1034, 17-25.	2.5	5
54	Vibrational Energy Relaxation of the Amide I Mode of <i>N</i> -Methylacetamide in D <sub>2</sub> O Studied through Born–Oppenheimer Molecular Dynamics. Journal of Physical Chemistry B, 2014, 118, 6186-6197.	2.6	26

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55	Preface to the ESPA-2012 special issue. Theoretical Chemistry Accounts, 2013, 132, 1.	1.4	Ο
56	A theoretical investigation of the CO2-philicity of amides and carbamides. Theoretical Chemistry Accounts, 2013, 132, 1.	1.4	27
57	Insights on peptide backbone N–H acidity: Structure of anions, hydration effects. Chemical Physics Letters, 2013, 561-562, 153-158.	2.6	6
58	Atmospheric Significance of Water Clusters and Ozone–Water Complexes. Journal of Physical Chemistry A, 2013, 117, 10381-10396.	2.5	101
59	Taste for Chiral Guests: Investigating the Stereoselective Binding of Peptides to β-Cyclodextrins. Journal of Physical Chemistry B, 2013, 117, 3091-3097.	2.6	18
60	Amino Acid Capture by Aqueous Interfaces. Implications for Biological Uptake. Journal of Physical Chemistry B, 2013, 117, 12469-12474.	2.6	16
61	Triple-differential cross sections for the ionization of thymine by electrons and positrons. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 175205.	1.5	14
62	Improvement of the Modeling of the Low-Temperature Oxidation of <i>n</i> -Butane: Study of the Primary Reactions. Journal of Physical Chemistry A, 2012, 116, 6142-6158.	2.5	72
63	Study of the Low Temperature Oxidation of Propane. Journal of Physical Chemistry A, 2012, 116, 12214-12228.	2.5	57
64	Intramolecular Interactions versus Hydration Effects on <i>p</i> -Guanidinoethyl-phenol Structure and p <i>K</i> <sub>a</sub> Values. Journal of Physical Chemistry A, 2012, 116, 9404-9411.	2.5	14
65	Is the HO <sub>4</sub> <sup>â^'</sup> Anion a Key Species in the Aqueousâ€Phase Decomposition of Ozone?. Chemistry - A European Journal, 2012, 18, 13435-13445.	3.3	11
66	Reactivity of Volatile Organic Compounds at the Surface of a Water Droplet. Journal of the American Chemical Society, 2012, 134, 11821-11827.	13.7	65
67	Cavity Closure Dynamics of Peracetylated β-Cyclodextrins in Supercritical Carbon Dioxide. Journal of Physical Chemistry B, 2012, 116, 3982-3990.	2.6	14
68	Reactivity of Atmospherically Relevant Small Radicals at the Air–Water Interface. Angewandte Chemie - International Edition, 2012, 51, 5413-5417.	13.8	69
69	Back Cover: Reactivity of Atmospherically Relevant Small Radicals at the Air-Water Interface (Angew.) Tj ETQq1 1	0.784314 13.8	f rgBT /Overle
70	A New Glimpse into the CO <sub>2</sub> â€Philicity of Carbonyl Compounds. ChemPhysChem, 2012, 13, 3397-3403.	2.1	44
71	Peptide Binding to β-Cyclodextrins: Structure, Dynamics, Energetics, and Electronic Effects. Journal of Physical Chemistry A, 2011, 115, 11810-11817.	2.5	19
72	What is the effective dielectric constant in a β-cyclodextrin cavity? Insights from Molecular Dynamics simulations and QM/MM calculations. Computational and Theoretical Chemistry, 2011, 968, 71-76.	2.5	8

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73	Importance of Polarization and Charge Transfer Effects to Model the Infrared Spectra of Peptides in Solution. Journal of Chemical Theory and Computation, 2011, 7, 1840-1849.	5.3	27
74	Simulation of amino acid diffusion across water/hydrophobic interfaces. Physical Chemistry Chemical Physics, 2011, 13, 11579.	2.8	14
75	Reduction mechanism in class A methionine sulfoxide reductases: a theoretical chemistry investigation. Theoretical Chemistry Accounts, 2011, 129, 93-103.	1.4	13
76	Structure, stability, and dynamics of hydrogen polyoxides. International Journal of Quantum Chemistry, 2011, 111, 1543-1554.	2.0	19
77	Protonation of Water Clusters Induced by Hydroperoxyl Radical Surface Adsorption. Chemistry - A European Journal, 2011, 17, 5076-5085.	3.3	14
78	The gas phase reaction of carbonyl oxide with hydroxyl radical in presence of water vapor. A theoretical study on the reaction mechanism. Computational and Theoretical Chemistry, 2011, 965, 313-320.	2.5	15
79	An approach based on Density Functional Theory (DFT) calculations to assess the Candida antarctica lipase B selectivity in rutin, isoquercitrin and quercetin acetylation. Journal of Molecular Catalysis B: Enzymatic, 2010, 66, 325-331.	1.8	21
80	Glycine Dimers: Structure, Stability, and Medium Effects. ChemPhysChem, 2010, 11, 3499-3504.	2.1	38
81	Metalation of Pyridines with <i>n</i> BuLiâ^'Liâ^'Aminoalkoxide Mixed Aggregates: The Origin of Chemoselectivity. Journal of the American Chemical Society, 2010, 132, 2410-2416.	13.7	38
82	Theoretical Study of Chlorophyll a Hydrates Formation in Aqueous Organic Solvents. Journal of Physical Chemistry B, 2010, 114, 681-687.	2.6	21
83	Free energy calculations using dual-level Born–Oppenheimer molecular dynamics. Journal of Chemical Physics, 2010, 133, 064103.	3.0	22
84	Computer simulation of reactions in β-cyclodextrin molecular reactors: transition state recognition. Organic and Biomolecular Chemistry, 2010, 8, 4346.	2.8	8
85	Hyperconjugation in adjacent OO bonds: Remarkable odd/even effects. Chemical Physics Letters, 2009, 481, 180-182.	2.6	20
86	Six-coordination in Chlorophylls: The fundamental role of dispersion energy. Chemical Physics Letters, 2009, 472, 243-247.	2.6	25
87	Deamidation of Asparagine Residues: Direct Hydrolysis versus Succinimide-Mediated Deamidation Mechanisms. Journal of Physical Chemistry A, 2009, 113, 1111-1120.	2.5	109
88	Structure of Mixed Alkyllithium/Lithium Alkoxide Aggregates in Ethereal Solvents. Insights from Combined QM/MM Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2009, 113, 6459-6467.	2.6	14
89	Theoretical Kinetic Study of the Reactions of Cycloalkylperoxy Radicals. Journal of Physical Chemistry A, 2009, 113, 6924-6935.	2.5	51
90	Combined ab initio and classical molecular dynamics simulations of alkyl-lithium aggregates in ethereal solutions. Theoretical Chemistry Accounts, 2008, 121, 321-326.	1.4	8

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91	Permeation selectivity of gaseous isotopes through dense polymers: Peculiar behavior of the hydrogen isotopes. Journal of Membrane Science, 2008, 318, 373-378.	8.2	7
92	Computational Study on Nonenzymatic Peptide Bond Cleavage at Asparagine and Aspartic Acid. Journal of Physical Chemistry A, 2008, 112, 8752-8761.	2.5	57
93	A Theoretical Study on nBuLi/Lithium Aminoalkoxide Aggregation in Hexane and THF. Journal of Organic Chemistry, 2008, 73, 9393-9402.	3.2	33
94	A theoretical study of medium effects on the structure of the glycine analogue aminomethylphosphonic acid. Physical Chemistry Chemical Physics, 2008, 10, 5624.	2.8	9
95	Theoretical Kinetic Study of Thermal Unimolecular Decomposition of Cyclic Alkyl Radicals. Journal of Physical Chemistry A, 2008, 112, 11598-11610.	2.5	73
96	The multipole moment expansion solvent continuum model: a brief review. Challenges and Advances in Computational Chemistry and Physics, 2008, , 23-38.	0.6	10
97	On the nature of the unusually long OO bond in HO3 and HO4 radicals. Physical Chemistry Chemical Physics, 2007, 9, 5865.	2.8	51
98	Theoretical Evaluation of the Substrate-Assisted Catalysis Mechanism for the Hydrolysis of Phosphate Monoester Dianions. Chemistry - A European Journal, 2007, 13, 3617-3629.	3.3	31
99	Theoretical study of solvent effects on the conformational equilibrium and electronic spectra of 2,2′-bipyridine derivatives. Computational and Theoretical Chemistry, 2007, 811, 169-174.	1.5	16
100	Extension of the composite CBS-QB3 method to singlet diradical calculations. Chemical Physics Letters, 2007, 435, 152-156.	2.6	31
101	Electron momentum spectroscopy of the valence orbitals of the water molecule in gas and liquid phase: A comparative study. Chemical Physics Letters, 2007, 439, 55-59.	2.6	20
102	Structure of levofloxacin in hydrophilic and hydrophobic media: Relationship to its antibacterial properties. Chemical Physics Letters, 2007, 442, 281-284.	2.6	19
103	Molecular dynamics of hydrogen peroxide in liquid water using a combined quantum/classical force field. Chemical Physics, 2007, 332, 341-347.	1.9	73
104	Can semi-empirical models describe HCl dissociation in water?. Theoretical Chemistry Accounts, 2007, 118, 425-435.	1.4	23
105	The structures of ozone and HOx radicals in aqueous solution from combined quantum/classical molecular dynamics simulations. Journal of Chemical Physics, 2006, 124, 194502.	3.0	36
106	Theoretical Study of the Reduction Mechanism of Sulfoxides by Thiols. Journal of Physical Chemistry A, 2006, 110, 7628-7636.	2.5	33
107	Detailed Kinetic Study of the Ring Opening of Cycloalkanes by CBS-QB3 Calculations. Journal of Physical Chemistry A, 2006, 110, 12693-12704.	2.5	97
108	Reaction Mechanism of Deamidation of Asparaginyl Residues in Peptides: Effect of Solvent Moleculesâ€. Journal of Physical Chemistry A, 2006, 110, 8354-8365.	2.5	60

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109	Analysis of interaction modes in calix[4]arene–levofloxacin complexes by quantum methods. Journal of Physical Organic Chemistry, 2006, 19, 157-166.	1.9	4
110	The role of water on the acid-promoted E/Z isomerization of oximes in aqueous solution. Computational and Theoretical Chemistry, 2006, 764, 161-166.	1.5	32
111	Structure of the HOOO Radical in Liquid Water: A Theoretical Study. ChemPhysChem, 2006, 7, 463-467.	2.1	24
112	Comparison of three effective Hamiltonian models of increasing complexity: Triazene in water as a test case. Journal of Chemical Physics, 2006, 124, 214504.	3.0	10
113	Solvent effect on the radical addition reaction to double bond: Experimental and quantum chemical investigations. Chemical Physics Letters, 2005, 415, 202-205.	2.6	21
114	The Mechanism of Formamide Hydrolysis in Water from Ab Initio Calculations and Simulations. Chemistry - A European Journal, 2005, 11, 6743-6753.	3.3	90
115	Theoretical Study of the 1,3-Hydrogen Shift of Triazene in Water. Journal of Physical Chemistry B, 2005, 109, 23024-23030.	2.6	16
116	Dynamic and Electrostatic Effects in Enzymatic Processes. An Analysis of the Nucleophilic Substitution Reaction in Haloalkane Dehalogenase. Journal of the American Chemical Society, 2005, 127, 1946-1957.	13.7	42
117	Simulation of Liquid Water Using Semiempirical Hamiltonians and the Divide and Conquer Approach. Journal of Physical Chemistry A, 2005, 109, 3425-3432.	2.5	60
118	An improved semiempirical method for hydrated systems. Theoretical Chemistry Accounts, 2004, 112, 204.	1.4	29
119	Jean-Louis Rivail Honorary Issue. Theoretical Chemistry Accounts, 2004, 112, 179.	1.4	Ο
120	A Model for Double Asymmetric Induction in the Stereocontrolled Reduction of Glycosyl α-Ketoesters with Oxazaborolidines. Journal of the American Chemical Society, 2004, 126, 6996-7008.	13.7	16
121	Electrostatic component of solvation: Comparison of SCRF continuum models. Journal of Computational Chemistry, 2003, 24, 284-297.	3.3	86
122	Theoretical Study on the Alkaline and Neutral Hydrolysis of Succinimide Derivatives in Deamidation Reactions. Journal of Physical Chemistry A, 2002, 106, 11205-11214.	2.5	27
123	Rb+/Cs+selectivity of benzo and tribenzo derivatives of the 21C7 crown ether. A density functional study. Journal of Computational Chemistry, 2002, 23, 724-731.	3.3	8
124	An iterative procedure to determine Lennard-Jones parameters for their use in quantum mechanics/molecular mechanics liquid state simulations. Chemical Physics, 2002, 284, 607-614.	1.9	21
125	Theoretical study of photochemical processes involving singlet excited states of formaldehyde carbonyl oxide in the atmosphere. Chemical Physics, 2002, 285, 221-231.	1.9	42
126	Computer Simulation of Amide Bond Formation in Aqueous Solution. Journal of Physical Chemistry A, 2001, 105, 11574-11581.	2.5	66

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127	Theoretical study of hydrogenolysis termination processes in ethylene polymerization. Tetrahedron, 2001, 57, 2769-2774.	1.9	12
128	A QM/MM/continuum model for computations in solution: Comparison with QM/MM molecular dynamics simulations. International Journal of Quantum Chemistry, 2001, 84, 559-564.	2.0	35
129	A comparative study of two QM/MM methods testing the validity of the mean field approximation. Chemical Physics Letters, 2001, 344, 107-112.	2.6	16
130	Role of electronic polarization on the liquid phase affinity of calixarene–crown-ethers towards alkali cations: a QM/MM molecular dynamics simulation. Chemical Physics, 2001, 272, 47-59.	1.9	12
131	Molecular dynamics simulation of carbonyl oxide in acetonitrile using combined DFT/MM potentials. Computational and Theoretical Chemistry, 2001, 536, 1-7.	1.5	3
132	Theoretical study of selectivity mechanisms in propylene polymerization with metallocene catalysts. Computational and Theoretical Chemistry, 2001, 541, 227-235.	1.5	18
133	The reaction field of a water molecule in liquid water: Comparison of different quantum/classical models. Journal of Chemical Physics, 2001, 115, 5220-5227.	3.0	35
134	Improving description of hydrogen bonds at the semiempirical level: water-water interactions as test case. Journal of Computational Chemistry, 2000, 21, 572-581.	3.3	70
135	New approaches to the description of short-range repulsion interactions in hybrid quantum/classical systems. Chemical Physics Letters, 2000, 329, 154-159.	2.6	20
136	On the tautomerization process of glycine in aqueous solution. Chemical Physics Letters, 2000, 321, 433-437.	2.6	57
137	Basic ideas for the correction of semiempirical methods describing H-bonded systems. Chemical Physics Letters, 2000, 330, 118-124.	2.6	66
138	Intramolecular proton transfer of serine in aqueous solution. Mechanism and energetics. Theoretical Chemistry Accounts, 2000, 104, 89-95.	1.4	34
139	Insights in the Peptide Hydrolysis Mechanism by Thermolysin: A Theoretical QM/MM study. Journal of Molecular Modeling, 2000, 6, 527-538.	1.8	86
140	Theoretical Investigation of Reaction Mechanisms for Carboxylic Acid Formation in the Atmosphere. Journal of the American Chemical Society, 2000, 122, 8990-8997.	13.7	79
141	Theoretical Study of Formic Acid Anhydride Formation from Carbonyl Oxide in the Atmosphere. Journal of Physical Chemistry A, 2000, 104, 380-388.	2.5	53
142	Calibration of the Quantum/Classical Hamiltonian in Semiempirical QM/MM AM1 and PM3 Methods. Journal of Physical Chemistry A, 2000, 104, 10923-10931.	2.5	54
143	Effect of solvent fluctuations on proton transfer dynamics: a hybrid AM1/MM molecular dynamics simulation on the [H3N–H–NH3]+ system. Chemical Physics, 1999, 240, 93-99.	1.9	9
144	Molecular dynamics simulation in aqueous solution of N -methylazetidinone as a model of Î <sup>2</sup> -lactam antibiotics. Theoretical Chemistry Accounts, 1999, 101, 336-342.	1.4	8

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145	Modeling ?-lactam interactions in aqueous solution through combined quantum mechanics-molecular mechanics methods. Journal of Computational Chemistry, 1999, 20, 1401-1411.	3.3	16
146	A Density Functional Study on the Coordination of Aldehydes to N-Sulfonyl 1,3,2-Oxazaborolidin-5-one. Journal of the American Chemical Society, 1999, 121, 10772-10780.	13.7	15
147	Molecular dynamics simulation of formamide in water using density functional theory and classical potentials. Journal of Chemical Physics, 1999, 111, 1117-1125.	3.0	41
148	Theoretical Study of the Mechanisms of Ethylene Polymerization with Metallocene-Type Catalysts. Journal of Physical Chemistry B, 1999, 103, 27-35.	2.6	26
149	Combined AM1/MM3 computations on organic systems: the Diels–Alder reaction as a test case. Chemical Physics Letters, 1998, 296, 239-244.	2.6	7
150	AM1/TIP3P molecular dynamics simulation of imidazole proton-relay processes in aqueous solution. Chemical Physics Letters, 1998, 297, 38-44.	2.6	10
151	Ab initio calculations of tautomer equilibrium and protonation enthalpy of 4- and 5-methylimidazole in the gas phase: Basis set and correlation effects. Computational and Theoretical Chemistry, 1998, 422, 197-204.	1.5	37
152	Density functional studies of compounds involved in atmospheric chemistry: nitrogen oxides. Computational and Theoretical Chemistry, 1998, 426, 95-104.	1.5	12
153	Theoretical Study of the [2+2] Cycloaddition of Thioketenes with Imines To FormÎ <sup>2</sup> -Thiolactams. Chemistry - A European Journal, 1998, 4, 328-334.	3.3	9
154	Influence of environment on proton-transfer mechanisms in model triads from theoretical calculations. Journal of Computational Chemistry, 1998, 19, 1675-1688.	3.3	27
155	Theoretical study of ester enolate-imine condensation route to ?-lactams. Journal of Computational Chemistry, 1998, 19, 1826-1833.	3.3	9
156	The Role of Menthyl Group in Catalyzed Asymmetric Dielsâ´'Alder Reactions. A Combined Quantum Mechanics/Molecular Mechanics Study. Journal of Organic Chemistry, 1998, 63, 4664-4670.	3.2	15
157	Self-Consistent Reaction Field Calculations of Nonequilibrium Solvent Effects on Proton Transfer Processes through Low-Barrier Hydrogen Bonds. Journal of Physical Chemistry A, 1998, 102, 10728-10735.	2.5	15
158	Neutral and Alkaline Hydrolyses of Model β-Lactam Antibiotics. An ab Initio Study of Water Catalysis. Journal of the American Chemical Society, 1998, 120, 2146-2155.	13.7	71
159	Intramolecular Proton Transfer of Glycine in Aqueous Solution Using Quantum Mechanicsâ^'Molecular Mechanics Simulations. Journal of Physical Chemistry A, 1998, 102, 8673-8678.	2.5	68
160	Modeling of Peptide Hydrolysis by Thermolysin. A Semiempirical and QM/MM Study. Journal of the American Chemical Society, 1998, 120, 8825-8833.	13.7	76
161	Molecular dynamics simulations of elementary chemical processes in liquid water using combined density functional and molecular mechanics potentials. II. Charge separation processes. Journal of Chemical Physics, 1997, 106, 3643-3657.	3.0	68
162	Ab Initio Study of 4(5)-Methylimidazole in Aqueous Solution. Journal of Physical Chemistry A, 1997, 101, 7885-7892.	2.5	34

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163	Ab Initio Calculations on Neutral and Alkaline Hydrolyses of β-Lactam Antibiotics. A Theoretical Study Including Solvent Effects. Journal of Physical Chemistry B, 1997, 101, 3581-3588.	2.6	56
164	Molecular dynamics simulations of elementary chemical processes in liquid water using combined density functional and molecular mechanics potentials. I. Proton transfer in strongly H-bonded complexes. Journal of Chemical Physics, 1997, 106, 3633-3642.	3.0	94
165	Conformational equilibria of 5-substituted-1,3-dithianes. Study of solvent effects. Computational and Theoretical Chemistry, 1997, 418, 113-118.	1.5	2
166	The Hydrolysis Mechanism of Formamide Revisited: Comparison Between ab initio, Semiempirical and DFT Results. Journal of Molecular Modeling, 1997, 3, 434-442.	1.8	48
167	Solvent effects on ozonolysis reaction intermediates. Chemical Physics Letters, 1997, 280, 444-450.	2.6	6
168	Investigation of Dienophileâ^'TiCl4Complexation by Means of X-ray Absorption and13C-NMR Spectroscopies§. Journal of Organic Chemistry, 1996, 61, 1636-1642.	3.2	7
169	On the conformational preferences of α,β-unsaturated carbonyl compounds. An ab initio study. Computational and Theoretical Chemistry, 1996, 362, 187-197.	1.5	20
170	Equilibrium and non-equilibrium solvent effects in electrophilic halogenation of ethylenic compounds. Computational and Theoretical Chemistry, 1996, 371, 107-116.	1.5	17
171	Computation of hydration free energies using a parameterized continuum model: Study of equilibrium geometries and reactive processes in water solution. Journal of Computational Chemistry, 1996, 17, 148-155.	3.3	51
172	Conformational analysis of 2-cyano-1,1-dihydroxyethane in solution. Journal of Physical Organic Chemistry, 1996, 9, 119-127.	1.9	3
173	Adsorption and decomposition of hexamethyldisiloxane on platinum: an XPS, UPS and TDS study. Applied Surface Science, 1996, 99, 245-254.	6.1	16
174	Coupled density functional/molecular mechanics Monte Carlo simulations of ions in water. The bromide ion. Chemical Physics Letters, 1995, 241, 450-456.	2.6	51
175	A Hybrid Density Functional-Classical Molecular Dynamics Simulation of a Water Molecule in Liquid Water. Journal of Molecular Modeling, 1995, 1, 196-201.	1.8	51
176	Study of the mechanism of chromium cluster formation by laser microprobe mass spectrometry. Correlation with theoretical computations. International Journal of Mass Spectrometry and Ion Processes, 1995, 144, 23-45.	1.8	30
177	Solvent effects on Diels-Alder reactions. A semi-empirical study. Computational and Theoretical Chemistry, 1995, 331, 37-50.	1.5	27
178	Hydroxide Ion in Liquid Water: Structure, Energetics, and Proton Transfer Using a Mixed Discrete-Continuum ab Initio Model. The Journal of Physical Chemistry, 1995, 99, 3798-3805.	2.9	95
179	Solvent effect on the conformational behavior of substituted spiro[4.5]decanes and spiro[5.5]undecanes. Canadian Journal of Chemistry, 1995, 73, 703-709.	1.1	7
180	Density Functional calculations for some hydrogen-bonded systems. Influence of a dielectric surrounding. Canadian Journal of Chemistry, 1995, 73, 710-715.	1.1	12

#	Article	IF	CITATIONS
181	Nonequilibrium solvent effects on the SN2 reaction using a selfâ€consistent reaction field continuum model based on multipole expansions. Journal of Chemical Physics, 1995, 103, 9249-9260.	3.0	24
182	2-Nitroethanal conformations in solution: AnAb initio SCRF study. Structural Chemistry, 1994, 5, 357-360.	2.0	1
183	A density functional study of pseudotetrahedral metal-nitrosyl complexes. International Journal of Quantum Chemistry, 1994, 52, 1039-1049.	2.0	8
184	Studies of solvent effects using density functional theory. Co-operative interactions in H3N…HBr proton transfer. Chemical Physics Letters, 1994, 221, 109-116.	2.6	34
185	Theoretical analysis of the role of the solvent on the reaction mechanisms: One-step versus two-step ketene-imine cycloaddition. Journal of Computational Chemistry, 1994, 15, 479-487.	3.3	46
186	Ab Initio Analysis of Water-Assisted Reaction Mechanisms in Amide Hydrolysis. Journal of the American Chemical Society, 1994, 116, 3912-3921.	13.7	203
187	X-Ray absorption spectroscopy investigation on the structure of methyl acrylate–TiCl4complexes in solution. Journal of the Chemical Society Chemical Communications, 1994, , 2165-2166.	2.0	7
188	Electrostatic solvent effect on the ketene-imine cycloaddition reaction. Computational and Theoretical Chemistry, 1993, 287, 193-199.	1.5	15
189	A multiple-scattering approach to the study of X-ray absorption spectra of anatase and rutile. Catalysis Letters, 1993, 20, 59-71.	2.6	13
190	Solvent effects on molecular geometries and isomerization processes: a study of push-pull ethylenes in solution. Journal of the American Chemical Society, 1993, 115, 3722-3730.	13.7	85
191	Solvent effects on the mechanism and selectivities of asymmetric Diels-Alder reactions. Journal of the American Chemical Society, 1993, 115, 8780-8787.	13.7	142
192	EXAFS and XANES Investigation of the Structure of TiCl <sub>4</sub> and TiCl <sub>4</sub> -Filodiene Reaction Intermediates in Solution. Japanese Journal of Applied Physics, 1993, 32, 514.	1.5	6
193	Experimental and theoretical study of the influence of the solvent on asymmetric diels?alder reactions. Journal of Physical Organic Chemistry, 1992, 5, 230-238.	1.9	68
194	Conformational aspects of some asymmetric Diels-Alder reactions. A molecular mechanics + polarization study. Tetrahedron, 1992, 48, 5209-5218.	1.9	31
195	Water dimer in liquid water. Theoretica Chimica Acta, 1992, 84, 181-194.	0.8	37
196	Theoretical study of multiple-scattering effects in the X-ray absorption spectra of iron-porphyrins. Chemical Physics, 1991, 156, 55-61.	1.9	2
197	An indo study of environment effects on the dioxygen position of an oxymyoglobin model. Computational and Theoretical Chemistry, 1991, 232, 337-347.	1.5	7
198	Theoretical study of simple push-pull ethylenes in solution. Journal of Physical Organic Chemistry, 1991, 4, 141-148.	1.9	29

#	Article	IF	CITATIONS
199	A theoretical study of the XANES spectra of rutile and anatase. Journal of Physics Condensed Matter, 1991, 3, 8981-8990.	1.8	65
200	Multielectron excitations in theK-edge x-ray-absorption near-edge spectra of V, Cr, and Mn 3dOcompounds with tetrahedral coordination. Physical Review B, 1991, 43, 6885-6892.	3.2	71
201	The Self-Consistent Reaction Field Model for Molecular Computations in Solution. , 1991, , 79-92.		15
202	An experimental and theoretical study of multi-electron excitations at the L3 absorption edge in some rare earth alloys and their hydrides. Chemical Physics Letters, 1990, 174, 389-395.	2.6	28
203	Multichannel multiple-scattering theory with general potentials. Physical Review B, 1990, 42, 1944-1968.	3.2	144
204	Magic-angle theorem in powder x-ray-absorption spectroscopy. Physical Review B, 1990, 42, 37-42.	3.2	38
205	Systematic approach to the calculation of the polarization-dependent (and polarization-averaged) general term of the curved-wave multiple-scattering series in the x-ray-absorption cross section. Physical Review B, 1989, 39, 1488-1500.	3.2	40
206	Structure and solvation of soluble [Fe(NO)2Lp] compounds - II. Physica B: Condensed Matter, 1989, 158, 200-202.	2.7	2
207	Polarized curved-wave extended x-ray-absorption fine structure: Theory and application. Physical Review B, 1989, 39, 1936-1939.	3.2	25
208	Reinvestigation of the EXAFS and xanes spectra of ferrocene and nickelocene in the framework of the multiple scattering theory. Chemical Physics, 1988, 121, 419-437.	1.9	61
209	Electrostatic interactions as a factor in the determination of the HOMO in the liquid state. Canadian Journal of Chemistry, 1986, 64, 2353-2358.	1.1	18
210	Theoretical calculation of vibrational polarizabilities. An application to the study of conformational and solvent effects. Chemical Physics Letters, 1986, 128, 177-181.	2.6	31
211	Circular dichroism of (1S,4R)-norcamphor and its methyl derivatives. Theoretical calculation of solvent effects and vibronic coupling perturbations. Chemical Physics, 1986, 110, 403-414.	1.9	10
212	Modifications of circular dichroism by electrostatic influence of the solvent. A theoretical approach in the random phase approximation. Chemical Physics, 1984, 86, 367-373.	1.9	14
213	Ab initioSCF calculations on electrostatically solvated molecules using a deformable three axes ellipsoidal cavity. Journal of Chemical Physics, 1983, 78, 834-838.	3.0	168