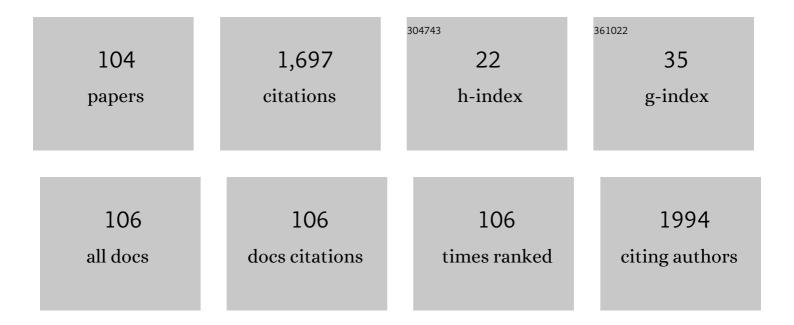
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A DFT study on the degradation mechanism of vitamin B2. Food Chemistry Molecular Sciences, 2022, 4, 100080.	2.1	1
2	A density functional theory study of the reaction mechanism of formation of phenolphthalein and fluorescein. Journal of Physical Organic Chemistry, 2021, 34, e4136.	1.9	1
3	A density functional theory study of the hydride shift in the Eschweiler–Clarke reaction. Journal of Physical Organic Chemistry, 2021, 34, e4253.	1.9	0
4	How is vitamin B1 oxidized to thiochrome? Elementary processes revealed by a DFT study. Organic and Biomolecular Chemistry, 2021, 19, 4529-4536.	2.8	3
5	How Is the Oxidation Related to the Tautomerization in Vitamin B9?. Journal of Physical Chemistry A, 2021, 125, 9346-9354.	2.5	1
6	Corona Discharge and Field Electron Emission in Ambient Air Using a Sharp Metal Needle: Formation and Reactivity of CO <sub>3</sub> <sup>â^'•</sup> and O <sub>2</sub> <sup>ⴒ•</sup> . Mass Spectrometry, 2021, 10, A0100-A0100.	0.6	2
7	A DFT Study on Transition States of Inhibition of Oxidation by αâ€Tocopherol. ChemistrySelect, 2020, 5, 9184-9194.	1.5	0
8	A novel contrast of the reactions of 2,4,6-trinitrotoluene (TNT) in atmospheric-pressure O2 and N2 plasma: Experimental and theoretical study. International Journal of Mass Spectrometry, 2020, 450, 116308.	1.5	5
9	DFT Study of the Hydroxyl Radical Addition to 2′-Deoxyguanosine and the Guanine Base in Four Double-Stranded B-Form Dimers. Journal of Physical Chemistry B, 2020, 124, 1374-1382.	2.6	3
10	A DFT study of the hydrolysis of hydantoin. International Journal of Chemical Kinetics, 2019, 51, 831-839.	1.6	0
11	Ketoâ€Enol Tautomerization Controls the Acidâ€Catalyzed Robinson Annulation ―A DFT Study. ChemistrySelect, 2019, 4, 4962-4966.	1.5	1
12	The adenine ring influences the adenosine 5′â€ŧriphosphate hydrolysis. International Journal of Quantum Chemistry, 2019, 119, e25816.	2.0	0
13	Dipping probe electrospray ionization/mass spectrometry for direct on-site and low-invasive food analysis. Food Chemistry, 2018, 260, 53-60.	8.2	16
14	A DFT study of proton transfers for the reaction of phenol and hydroxyl radical leading to dihydroxybenzene and H <sub>2</sub> 0 in the water cluster. International Journal of Quantum Chemistry, 2018, 118, e25510.	2.0	7
15	The tautomerization and ring closure in the Claisen rearrangement: A DFT study. International Journal of Quantum Chemistry, 2018, 118, e25677.	2.0	2
16	Oneâ $\in$ Step Paths of the Alkene Hydration Revealed by a DFT Study. ChemistrySelect, 2017, 2, 6857-6864.	1.5	2
17	Syntheses, X-ray crystal structures, and emission properties of diprotonated tetrapyridylpyrazine and triprotonated terpyridine. Journal of Physical Organic Chemistry, 2016, 29, 269-275.	1.9	9
18	A DFT study of hydride transfers to the carbonyl oxygen of DDQ. International Journal of Quantum Chemistry, 2015, 115, 1533-1542.	2.0	11

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19	Frontier orbitals and transition states in the oxidation and degradation of <scp>l</scp> -ascorbic acid: a DFT study. Organic and Biomolecular Chemistry, 2015, 13, 4002-4015.	2.8	13
20	Proton transfers in the Strecker reaction revealed by DFT calculations. Beilstein Journal of Organic Chemistry, 2014, 10, 1765-1774.	2.2	5
21	Substrate dependent reaction channels of the Wolff–Kishner reduction reaction: A theoretical study. Beilstein Journal of Organic Chemistry, 2014, 10, 259-270.	2.2	11
22	S <sub>N</sub> 1 <sub>N</sub> 2 and S <sub>N</sub> 2 <sub>N</sub> 3 mechanistic changes revealed by transition states of the hydrolyses of benzyl chlorides and benzenesulfonyl chlorides. Journal of Computational Chemistry, 2014, 35, 1140-1148.	3.3	14
23	A DFT study on proton transfers in hydrolysis reactions of phosphate dianion and sulfate monoanion. Journal of Computational Chemistry, 2014, 35, 2195-2204.	3.3	5
24	Three Competitive Transition States at the Glycosidic Bond of Sucrose in Its Acid-Catalyzed Hydrolysis. Journal of Organic Chemistry, 2013, 78, 2527-2533.	3.2	20
25	A new intermediate in the Prins reaction. Beilstein Journal of Organic Chemistry, 2013, 9, 476-485.	2.2	9
26	An aniline dication-like transition state in the Bamberger rearrangement. Beilstein Journal of Organic Chemistry, 2013, 9, 1073-1082.	2.2	11
27	Presence or absence of a novel charge-transfer complex in the base-catalyzed hydrolysis of <i>N</i> -ethylbenzamide or ethyl benzoate. Beilstein Journal of Organic Chemistry, 2013, 9, 185-196.	2.2	5
28	How is the anionic tetrahedral intermediate involved in the isomerization of aspartyl peptides to iso-aspartyl ones? A DFT study on the tetra-peptide. Organic and Biomolecular Chemistry, 2012, 10, 8007.	2.8	1
29	Proton Transfers along Hydrogen Bonds in the Tautomerization of Purine. Journal of Physical Chemistry A, 2012, 116, 1289-1297.	2.5	11
30	A significant role of alkaline cations on the Reimer–Tiemann reaction. Organic and Biomolecular Chemistry, 2011, 9, 5109.	2.8	8
31	An unsymmetrical behavior of reactant units in the Kolbe–Schmitt reaction. Theoretical Chemistry Accounts, 2011, 130, 891-900.	1.4	2
32	A computational study on the relationship between formation and electrolytic dissociation of carbonic acid. Theoretical Chemistry Accounts, 2011, 130, 909-918.	1.4	10
33	Role of hydrogen bonds in acid-catalyzed hydrolyses of esters. Theoretical Chemistry Accounts, 2011, 130, 429-438.	1.4	12
34	Biradical processes in reactions between benzyne and tropone. Theoretical Chemistry Accounts, 2011, 130, 981-990.	1.4	10
35	Is the neutral Knoevenagel reaction initiated by the carbanion formation?. Journal of Physical Organic Chemistry, 2011, 24, 663-671.	1.9	6
36	Remarkable emissions in diprotonated 2,2′:6′,2″â€ŧerpyridine derivatives. Journal of Physical Organic Chemistry, 2010, 23, 431-439.	1.9	14

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37	Correlation between the Rate Order and the Number of Molecules in the Reaction of Trimethyl Phosphite with Water in Acetonitrile Solvent. Journal of Physical Chemistry A, 2010, 114, 11699-11707.	2.5	1
38	Detailed Description of the Metal-to-Ligand Charge-Transfer State in Monoterpyridine IrIII Complexes. European Journal of Inorganic Chemistry, 2009, 2009, 2067-2073.	2.0	5
39	A metal free blue emission by the protonated 2,2′:6′,2″â€ŧerpyridine hexafluorophosphate. Journal of Physical Organic Chemistry, 2009, 22, 410-417.	1.9	19
40	A remarkable difference in the deprotonation steps of the Friedel–Crafts acylation and alkylation reactions. Journal of Physical Organic Chemistry, 2009, 22, 1094-1103.	1.9	21
41	Ï€ Complexes in benzidine rearrangement. Organic and Biomolecular Chemistry, 2009, 7, 4631.	2.8	21
42	Three competitive transition states in the benzoin condensation compared to the clear rate-determining step in the Cannizzaro reaction. Organic and Biomolecular Chemistry, 2009, 7, 951.	2.8	22
43	The Role of Hydrogen Bonds in Baeyerâ^'Villiger Reactions. Journal of Organic Chemistry, 2007, 72, 3031-3041.	3.2	41
44	Reaction ofo-Benzyne with Tropothione Involving Biradical Processesâ€. Journal of Organic Chemistry, 2007, 72, 2832-2841.	3.2	23
45	Reaction Paths of the Water-Assisted Solvolysis of N,N-Dimethylformamide. Journal of Physical Chemistry A, 2007, 111, 6296-6303.	2.5	11
46	Theoretical study of the role of solvent H2O in neopentyl and pinacol rearrangements. Journal of Computational Chemistry, 2007, 28, 1561-1571.	3.3	8
47	Synthesis, Characterization, and DFT Investigation of IrIII Tolylterpyridine Complexes. European Journal of Inorganic Chemistry, 2007, 2007, 1911-1919.	2.0	35
48	How Many Elementary Processes Are Involved in Base- and Acid-Promoted Aldol Condensations?. European Journal of Organic Chemistry, 2007, 2007, 6070-6077.	2.4	3
49	A FMO-Controlled Reaction Path in the Benzilâ^'Benzilic Acid Rearrangement. Journal of Organic Chemistry, 2006, 71, 1777-1783.	3.2	30
50	Active Role of Hydrogen Bonds in Rupe and Meyerâ^'Schuster Rearrangements. Journal of Chemical Theory and Computation, 2006, 2, 1379-1387.	5.3	11
51	Tropone Is a Mere Ketone for Cycloadditions to Ketenes. Helvetica Chimica Acta, 2005, 88, 1519-1539.	1.6	19
52	Symmetry or asymmetry in cheletropic additions forming cyclopropanes. Theoretical Chemistry Accounts, 2005, 113, 95-106.	1.4	1
53	Is the Beckmann Rearrangement a Concerted or Stepwise Reaction? A Computational Study. Journal of Organic Chemistry, 2005, 70, 10638-10644.	3.2	47
54	A mild and efficient Si (111) surface modification via hydrosilylation of activated alkynes. Journal of Materials Chemistry, 2005, 15, 4906.	6.7	40

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55	Reaction Paths of the Water-Assisted Neutral Hydrolysis of Ethyl Acetate. Journal of Physical Chemistry A, 2005, 109, 7216-7224.	2.5	36
56	Reaction Paths of Tautomerization between Hydroxypyridines and Pyridones. Journal of Physical Chemistry A, 2005, 109, 1974-1980.	2.5	57
57	Revisiting Hydrogen [1,5] Shifts in Cyclopentadiene and Cycloheptatriene as Bimolecular Reactions. Journal of Chemical Theory and Computation, 2005, 1, 944-952.	5.3	17
58	A computational study of the role of hydrogen bonds in SN1 and E1 reactions. Journal of Computational Chemistry, 2004, 25, 598-608.	3.3	18
59	Reaction Paths of Ketoâ^'Enol Tautomerization of β-Diketones. Journal of Physical Chemistry A, 2004, 108, 2750-2757.	2.5	90
60	A computational study of interactions between acetic acid and water molecules. Journal of Computational Chemistry, 2003, 24, 939-947.	3.3	15
61	Gas Phase Study of the Clustering Reactions of C2H5+,s-C3H7+, andt-C4H9+with CO2and N2O:Â Isomeric Structure of C2H5+, C2H5+(CO2)n, and C2H5+(N2O)n. Journal of Physical Chemistry A, 2003, 107, 775-781.	2.5	13
62	Gas-Phase Solvation of O2+, O2-, O4-, O3-, and CO3-with CO. Journal of Physical Chemistry A, 2003, 107, 4817-4825.	2.5	4
63	Molecular Interactions between Glycine and H2O Affording the Zwitterion. Journal of Physical Chemistry A, 2003, 107, 7915-7922.	2.5	53
64	Gas-phase ion/molecule reactions in octafluorocyclobutane. Journal of Chemical Physics, 2002, 116, 7574-7582.	3.0	15
65	Gas-Phase Ionâ^'Molecule Reactions in C3F6. Journal of Physical Chemistry A, 2002, 106, 603-611.	2.5	9
66	Olefin–olefin reactions mediated by Lewis acids may afford cyclopropanes rather than cyclobutanes: a mechanistic study of cyclopropane formation using a 1-seleno-2-silylethene â€. Perkin Transactions II RSC, 2001, , 164-173.	1.1	4
67	Norcaradiene intermediates in mass spectral fragmentations of tropone and tropothioneElectronic supplementary information (ESI) available: reaction paths supporting Figs. 3ââ,¬â€œ6. See http://www.rsc.org/suppdata/p2/b1/b102127n/. Perkin Transactions II RSC, 2001, , 2202-2210.	1.1	4
68	Characteristic Changes of Bond Energies for Gas-Phase Cluster Ions of Halide Ions with Methane and Chloromethanes. Journal of Physical Chemistry A, 2001, 105, 4887-4893.	2.5	41
69	Hydrogen bonds in gas-phase clusters between halide ions and olefins. Journal of the American Society for Mass Spectrometry, 2001, 12, 144-149.	2.8	15
70	A computational study of base-catalyzed reactions between isocyanates and epoxides affording 2-oxazolidones and isocyanurates. Journal of Computational Chemistry, 2001, 22, 316-326.	3.3	20
71	On the Structure and Stability of Gas-Phase Cluster Ions SiF3+(CO)n, SiF3OH2+(SiF4)n, SiF4H+(SiF4)n, and F-(SiF4)n. Journal of Physical Chemistry A, 2000, 104, 8353-8359.	2.5	6
72	A Mechanism of the Ion Separation of the NaCl Microcrystal via the Association of Water Clusters. Journal of Physical Chemistry B, 2000, 104, 10242-10252.	2.6	38

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73	A Theoretical Study of Curing Reactions of Maleimide Resins through Michael Additions of Amines. Journal of Organic Chemistry, 2000, 65, 1544-1548.	3.2	22
74	A Three-Center Orbital Interaction in the Dielsâ^'Alder Reactions Catalyzed by Lewis Acids. Journal of Organic Chemistry, 2000, 65, 1830-1841.	3.2	40
75	Frontier-orbital analyses of ketene [2+2] cycloadditions. Theoretical Chemistry Accounts, 1999, 102, 139-146.	1.4	17
76	Experimental and Theoretical Studies of Gas-Phase Ion/Molecule Reactions in SiF4Forming SiFm+(SiF4)nClusters (m= 0â^'3 andn= 0â^'2). Journal of Physical Chemistry A, 1999, 103, 568-572.	2.5	10
77	Chiral Synthesis of Cyclopropanes. Stereoselective [2 + 1] Cycloaddition Reactions of 1-Seleno-2-silylethenes with Di-(â^')-menthyl Ethene-1,1-dicarboxylates. Journal of Organic Chemistry, 1999, 64, 2367-2374.	3.2	19
78	[2 + 1] Cycloaddition Reactions of a 1-Seleno-2-silylethene to 2-Sulfonylacrylates:Â Stereoselective Synthesis of Sulfone-Substituted Cyclopropanes. Journal of Organic Chemistry, 1999, 64, 9521-9528.	3.2	21
79	How is the Fluoride Ion Bound to O2, N2, and CO Molecules?. Journal of Physical Chemistry A, 1998, 102, 6916-6920.	2.5	8
80	A Novel Strategy for Cyclobutane Formation. Fine Tuning of Cyclobutanation vs Cyclopropanation. Journal of Organic Chemistry, 1998, 63, 3371-3378.	3.2	18
81	Anomalous Change of Bond Energies in the Cluster Ion N2H+(H2)n. Journal of Physical Chemistry A, 1998, 102, 1214-1218.	2.5	17
82	Theoretical Study of Hydrolysis and Condensation of Silicon Alkoxides. Journal of Physical Chemistry A, 1998, 102, 3991-3998.	2.5	85
83	Formation of the trimer ion core in the heterogeneous rare gas cluster ions. Journal of Chemical Physics, 1998, 108, 6689-6697.	3.0	5
84	Gas-Phase Ion-Molecule Reactions in Tetrahydrothiophene Journal of the Mass Spectrometry Society of Japan, 1998, 46, 442-447.	0.1	0
85	A Molecular Orbital Calculation of Chemically Interacting Systems.: Interaction between Two Radicals. World Scientific Series in 20th Century Chemistry, 1997, , 341-350.	0.0	0
86	The Problem of Non-Recognition for Dienes in Ketene Reactions. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 1997, 55, 56-64.	0.1	2
87	A Theoretical Study of the Epoxidation of Olefins by Peracids. Journal of Organic Chemistry, 1996, 61, 616-620.	3.2	46
88	Steric effects upon transition states of radical addition polymerizations. Journal of Polymer Science Part A, 1996, 34, 1407-1414.	2.3	5
89	Ab Initio Study of Proton Affinities of Three Crown Ethers. The Journal of Physical Chemistry, 1996, 100, 7367-7371.	2.9	29
90	Gas-Phase Stability and Structure of the Cluster Ions CF3+(CO)n, CF3+(N2)n, CF3+(CF4)n, and CF4H+(CF4)n. The Journal of Physical Chemistry, 1996, 100, 5245-5251.	2.9	17

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91	Gas-phase stability of cluster ions SF m + (SF6) n with m = 0–5 and n = 1–3. Journal of the American Society for Mass Spectrometry, 1995, 6, 1137-1142.	2.8	7
92	Gasâ€phase solvation of NO+, O+2, N2O+, N2OH+, and H3O+ with N2O. Journal of Chemical Physics, 1994, 101, 4073-4082.	3.0	12
93	Comparative study of the gas-phase bond strengths of CO2 and N2O with the halide ions. Journal of the American Society for Mass Spectrometry, 1993, 4, 58-64.	2.8	6
94	Formation of the chelate bonds in the cluster Oâ^'2(CO2)n, COâ^'3(CO2)n, and NOâ^'2(CO2)n. Journal of Chemical Physics, 1992, 97, 643-650.	3.0	21
95	On the formation of the isomeric cluster ions (CO)+n. Journal of Chemical Physics, 1991, 94, 2697-2703.	3.0	14
96	Stability and structure of benzene dimer cation (C6H6)+2in the gas phase. Journal of Chemical Physics, 1991, 95, 8413-8418.	3.0	50
97	Cluster ions: Gasâ€phase stabilities of NO+(O2)n and NO+(CO2)n with n=1–5. Journal of Chemical Physics, 1991, 95, 6800-6805.	3.0	19
98	How are nitrogen molecules bound to NO+2 and NO+?. Journal of Chemical Physics, 1989, 90, 3268-3273.	3.0	23
99	Stability and structure of cluster ions: Halide ions with CO2. Journal of Chemical Physics, 1987, 87, 3647-3652.	3.0	35
100	A determination of the stabilities and structures of Fâ^'(C6H6) and Fâ^'(C6F6) clusters. Journal of Chemical Physics, 1987, 86, 4102-4105.	3.0	57
101	Theoretical study of photochemical reactions: Electron assignment and the state correlation diagram. International Journal of Quantum Chemistry, 1980, 18, 243-250.	2.0	7
102	MO Study of the photochemical behavior of the imine bond. International Journal of Quantum Chemistry, 1980, 18, 457-462.	2.0	23
103	A theoretical study on the photodissociation of C3O2. Theoretica Chimica Acta, 1979, 52, 257-265.	0.8	8
104	A DFT study of the active role of the phosphate group of an internal aldimine in a transamination reaction. Organic and Biomolecular Chemistry, 0, , .	2.8	0