

J Raul Alvarez-Idaboy

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

131
papers

4,914
citations

42
h-index

65
g-index

138
ext. papers

5,482
ext. citations

3.8
avg. IF

6.08
L-index

#	Paper	IF	Citations
131	Free radical scavenging activity of newly designed sesamol derivatives. <i>New Journal of Chemistry</i> , 2021 , 45, 11960-11967	3.6	2
130	Chalcogen effects on the primary antioxidant activity of chrysin and quercetin. <i>New Journal of Chemistry</i> , 2020 , 44, 9073-9082	3.6	11
129	Insights into the Mechanism of Hydroxyl Radical Mediated Oxidations of 2-Aminopurine: A Computational and Sonochemical Product Analysis Study. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 6245-6256	3.4	3
128	Chemical repair mechanisms of damaged tyrosyl and tryptophanyl residues in proteins by the superoxide radical anion. <i>New Journal of Chemistry</i> , 2020 , 44, 2505-2513	3.6	
127	The Antioxidant Capability of Higenamine: Insights from Theory. <i>Antioxidants</i> , 2020 , 9,	7.1	11
126	Computationally Designed Sesamol Derivatives Proposed as Potent Antioxidants. <i>ACS Omega</i> , 2020 , 5, 9566-9575	3.9	6
125	Modelling the repair of carbon-centred protein radicals by the antioxidants glutathione and Trolox. <i>New Journal of Chemistry</i> , 2019 , 43, 2085-2097	3.6	4
124	Thiophenols, Promising Scavengers of Peroxyl Radicals: Mechanisms and kinetics. <i>Journal of Computational Chemistry</i> , 2019 , 40, 2103-2110	3.5	24
123	Computational strategies for predicting free radical scavengers and protection against oxidative stress: Where are we and what might follow?. <i>International Journal of Quantum Chemistry</i> , 2019 , 119, e25665	2.1	101
122	Reinvestigation of Acetophenones Oxidation by Performic Acid in Formic Acid. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 1968-1972	2.8	0
121	Melatonin and its metabolites as chemical agents capable of directly repairing oxidized DNA. <i>Journal of Pineal Research</i> , 2019 , 66, e12539	10.4	26
120	Chemical Insights into the Antioxidant Mechanisms of Alkylseleno and Alkyltelluro Phenols: Periodic Relatives Behaving Differently. <i>Chemistry - A European Journal</i> , 2018 , 24, 8686-8691	4.8	9
119	Theoretical and experimental study demonstrates kinetic control in chalcone-flavanone transformation of naphthalene derivatives. <i>Journal of Molecular Structure</i> , 2018 , 1157, 631-637	3.4	2
118	Radical scavenging activity of ascorbic acid analogs: kinetics and mechanisms. <i>Theoretical Chemistry Accounts</i> , 2018 , 137, 1	1.9	8
117	Role of purines on the copper-catalyzed oxidative damage in biological systems: Protection versus promotion. <i>International Journal of Quantum Chemistry</i> , 2018 , 118, e25527	2.1	7
116	Estimation of empirically fitted parameters for calculating pK _a values of thiols in a fast and reliable way. <i>Theoretical Chemistry Accounts</i> , 2018 , 137, 1	1.9	10
115	The other side of the superoxide radical anion: its ability to chemically repair DNA oxidized sites. <i>Chemical Communications</i> , 2018 , 54, 13710-13713	5.8	7

114	Theoretical Study of the Reactivity and Selectivity of Various Free Radicals with Cysteine Residues. <i>ACS Omega</i> , 2018 , 3, 16519-16528	3.9	4
113	Comprehensive Investigation of the Antioxidant and Pro-oxidant Effects of Phenolic Compounds: A Double-Edged Sword in the Context of Oxidative Stress?. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6198-6214	3.4	42
112	Formation mechanism of glyoxal-DNA adduct, a DNA cross-link precursor. <i>International Journal of Biological Macromolecules</i> , 2017 , 98, 664-675	7.9	6
111	Non-covalent π -stacking interactions turn off non-adiabatic effects in proton-coupled electron transfer reactions. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6969-6972	3.6	15
110	Dual antioxidant/pro-oxidant behavior of the tryptophan metabolite 3-hydroxyanthranilic acid: a theoretical investigation of reaction mechanisms and kinetics. <i>New Journal of Chemistry</i> , 2017 , 41, 3829-3845	3.6	21
109	The role of acid-base equilibria in formal hydrogen transfer reactions: tryptophan radical repair by uric acid as a paradigmatic case. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15296-15309	3.6	17
108	Radical-trapping and preventive antioxidant effects of 2-hydroxymelatonin and 4-hydroxymelatonin: Contributions to the melatonin protection against oxidative stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 2206-2217	4	13
107	Empirically Fitted Parameters for Calculating pKa Values with Small Deviations from Experiments Using a Simple Computational Strategy. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 1714-24	6.1	59
106	Theoretical study of copper complexes with lipoic and dihydrolipoic acids. <i>RSC Advances</i> , 2016 , 6, 107924-107932	3.7	32
105	Food Antioxidants: Chemical Insights at the Molecular Level. <i>Annual Review of Food Science and Technology</i> , 2016 , 7, 335-52	14.7	222
104	Coumarin-Chalcone Hybrids as Peroxyl Radical Scavengers: Kinetics and Mechanisms. <i>Journal of Chemical Information and Modeling</i> , 2016 , 56, 662-70	6.1	32
103	Hydrogen Abstraction Reactions from Phenolic Compounds by Peroxyl Radicals: Multireference Character and Density Functional Theory Rate Constants. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4634-42	2.8	47
102	Deprotonation routes of anthocyanidins in aqueous solution, pKa values, and speciation under physiological conditions. <i>RSC Advances</i> , 2016 , 6, 53421-53429	3.7	15
101	Primary antioxidant and metal-binding effects of tiopronin: A theoretical investigation of its action mechanism. <i>Computational and Theoretical Chemistry</i> , 2016 , 1077, 48-57	2	15
100	Tryptophan versus nitric oxide, nitrogen dioxide and carbonate radicals: differences in reactivity and implications for oxidative damage to proteins. <i>Theoretical Chemistry Accounts</i> , 2016 , 135, 1	1.9	4
99	Contrasting reactions of hydrated electron and formate radical with 2-thio analogues of cytosine and uracil. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28781-28790	3.6	5
98	Chemical repair of protein carbon-centred radicals: long-distance dynamic factors. <i>Canadian Journal of Chemistry</i> , 2016 , 94, 1119-1126	0.9	6
97	Site reactivity in the free radicals induced damage to leucine residues: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 4970-6	3.6	12

96	Free-radical scavenging by tryptophan and its metabolites through electron transfer based processes. <i>Journal of Molecular Modeling</i> , 2015 , 21, 213	2	38
95	Modelling the chemical repair of protein carbon-centered radicals formed via oxidative damage with dihydrolipoic acid. <i>RSC Advances</i> , 2015 , 5, 96714-96719	3.7	12
94	A proton-electron sequential transfer mechanism: theoretical evidence about its biological relevance. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 28525-8	3.6	21
93	Assessing the Protective Activity of a Recently Discovered Phenolic Compound against Oxidative Stress Using Computational Chemistry. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 2552-61	6.1	16
92	Theoretical study on the peroxy radicals scavenging activity of esculetin and its regeneration in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1197-207	3.6	27
91	Dihydroxybenzoic acids as free radical scavengers: mechanisms, kinetics, and trends in activity. <i>New Journal of Chemistry</i> , 2014 , 38, 2639	3.6	34
90	Tryptophan: antioxidant or target of oxidative stress? A quantum chemistry elucidation. <i>RSC Advances</i> , 2014 , 4, 56128-56131	3.7	14
89	An experimental and theoretical study of the kinetics and mechanism of hydroxyl radical reaction with 2-aminopyrimidine. <i>RSC Advances</i> , 2014 , 4, 14157	3.7	16
88	Antioxidant activity of selected natural polyphenolic compounds from soybean via peroxy radical scavenging. <i>RSC Advances</i> , 2014 , 4, 38918-38930	3.7	23
87	Lipoic acid and dihydrolipoic acid. A comprehensive theoretical study of their antioxidant activity supported by available experimental kinetic data. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 1642-52	6.1	31
86	A theoretical and experimental evaluation of imidazolium-based ionic liquids for atmospheric mercury capture. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2186	2	5
85	Kinetics of radical-molecule reactions in aqueous solution: a benchmark study of the performance of density functional methods. <i>Journal of Computational Chemistry</i> , 2014 , 35, 2019-26	3.5	151
84	Antioxidant activity of fraxetin and its regeneration in aqueous media. A density functional theory study. <i>RSC Advances</i> , 2014 , 4, 52920-52932	3.7	25
83	Theoretical study of the complex reaction of O(3P) with trans-2-butene. <i>Theoretical Chemistry Accounts</i> , 2013 , 132, 1	1.9	3
82	Antioxidant activity of propyl gallate in aqueous and lipid media: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13137-46	3.6	45
81	A computational methodology for accurate predictions of rate constants in solution: application to the assessment of primary antioxidant activity. <i>Journal of Computational Chemistry</i> , 2013 , 34, 2430-45	3.5	203
80	Piceatannol, a better peroxy radical scavenger than resveratrol. <i>RSC Advances</i> , 2013 , 3, 20209	3.7	64
79	Acid-catalyzed nucleophilic additions to carbonyl groups: is the accepted mechanism the rule or an exception?. <i>Journal of Organic Chemistry</i> , 2013 , 78, 2327-35	4.2	14

78	On the chemical repair of DNA radicals by glutathione: hydrogen vs electron transfer. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9316-25	3.4	62
77	On the evolution of one-electron-oxidized deoxyguanosine in damaged DNA under physiological conditions: a DFT and ONIOM study on proton transfer and equilibrium. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12476-84	3.6	34
76	Influence of the methylation degree on the rate constants of the OH addition to alkenes and its temperature dependence. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 3479-3483	2.1	8
75	Mechanisms and rate constants in the atmospheric oxidation of saturated esters by hydroxyl radicals: A theoretical study. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 3508-3515	2.1	15
74	Tropospheric degradation of ethylene glycol monovinyl and divinyl ethers: A mechanistic and kinetic study. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 3525-3534	2.1	10
73	Antioxidant activity of trans-resveratrol toward hydroxyl and hydroperoxyl radicals: a quantum chemical and computational kinetics study. <i>Journal of Organic Chemistry</i> , 2012 , 77, 3868-77	4.2	183
72	On the peroxy scavenging activity of hydroxycinnamic acid derivatives: mechanisms, kinetics, and importance of the acid-base equilibrium. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12534-43	3.6	54
71	Molecular description of indigo oxidation mechanisms initiated by OH and OOH radicals. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3643-51	2.8	10
70	Influence of the environment on the protective effects of guaiacol derivatives against oxidative stress: mechanisms, kinetics, and relative antioxidant activity. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7129-37	3.4	30
69	A quantum chemical study on the free radical scavenging activity of tyrosol and hydroxytyrosol. <i>Theoretical Chemistry Accounts</i> , 2012 , 131, 1	1.9	34
68	ROS initiated oxidation of dopamine under oxidative stress conditions in aqueous and lipidic environments. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12234-46	3.4	91
67	Mechanism and kinetics studies on the antioxidant activity of sinapinic acid. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11199-205	3.6	72
66	Canolol: a promising chemical agent against oxidative stress. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8590-6	3.4	65
65	On the possible catalytic role of a single water molecule in the acetone + OH gas phase reaction: a theoretical pseudo-second-order kinetics study. <i>Theoretical Chemistry Accounts</i> , 2011 , 129, 209-217	1.9	56
64	Glutathione: mechanism and kinetics of its non-enzymatic defense action against free radicals. <i>RSC Advances</i> , 2011 , 1, 1763	3.7	108
63	Role of allyl group in the hydroxyl and peroxy radical scavenging activity of S-allylcysteine. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 13408-17	3.4	25
62	Hydrolysis of a chlorambucil analogue. A DFT study. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 2359-66	2.8	12
61	Physicochemical insights on the free radical scavenging activity of sesamol: importance of the acid/base equilibrium. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 13101-9	3.4	55

60	Mechanism and kinetics of the water-assisted formic acid + OH reaction under tropospheric conditions. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 5138-46	2.8	52
59	Mechanism and branching ratios of hydroxy ethers + (*)OH gas phase reactions: relevance of h bond interactions. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 7525-36	2.8	15
58	Can a Single Water Molecule Really Catalyze the Acetaldehyde + OH Reaction in Tropospheric Conditions?. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3112-3115	6.4	98
57	Computational and experimental study of the interactions between ionic liquids and volatile organic compounds. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9830-8	3.6	44
56	Counterpoise corrected interaction energies are not systematically better than uncorrected ones: comparison with CCSD(T) CBS extrapolated values. <i>Theoretical Chemistry Accounts</i> , 2010 , 126, 75-85	1.9	114
55	Single water-molecule catalysis in the glyoxal+OH reaction under tropospheric conditions: Fact or fiction? A quantum chemistry and pseudo-second order computational kinetic study. <i>Chemical Physics Letters</i> , 2010 , 501, 11-15	2.5	38
54	Substituent effects in the Baeyer-Villiger reaction of acetophenones: a theoretical study. <i>Journal of Physical Organic Chemistry</i> , 2009 , 22, 643-649	2.1	23
53	Guanosine + OH radical reaction in aqueous solution: a reinterpretation of the UV-vis data based on thermodynamic and kinetic calculations. <i>Organic Letters</i> , 2009 , 11, 5114-7	6.2	88
52	Quantum chemistry and TST study of the mechanisms and branching ratios for the reactions of OH with unsaturated aldehydes. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 7649-58	3.6	78
51	OH radical gas phase reactions with aliphatic ethers: a variational transition state theory study. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 13913-20	2.8	91
50	The Baeyer-Villiger reaction: solvent effects on reaction mechanisms. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 3682-90	3.9	66
49	Atmospheric Reactions of Oxygenated Volatile Organic Compounds+OH Radicals: Role of Hydrogen-Bonded Intermediates and Transition States. <i>Advances in Quantum Chemistry</i> , 2008 , 245-274	1.4	13
48	Branching Ratios of Aliphatic Amines + OH Gas-Phase Reactions: A Variational Transition-State Theory Study. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 322-7	6.4	39
47	Theoretical explanation of nonexponential OH decay in reactions with benzene and toluene under pseudo-first-order conditions. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 7608-15	2.8	46
46	Quantum chemistry and TST study of the mechanism and kinetics of the butadiene and isoprene reactions with mercapto radicals. <i>Chemical Physics</i> , 2008 , 344, 273-280	2.3	9
45	The mechanism of the Baeyer-Villiger rearrangement: quantum chemistry and TST study supported by experimental kinetic data. <i>Organic and Biomolecular Chemistry</i> , 2007 , 5, 3682-9	3.9	87
44	Non-alkane behavior of cyclopropane and its derivatives: characterization of unconventional hydrogen bond interactions. <i>Theoretical Chemistry Accounts</i> , 2007 , 118, 597-606	1.9	18
43	Reinvestigating the role of multiple hydrogen transfers in Baeyer-Villiger reactions. <i>Journal of Organic Chemistry</i> , 2007 , 72, 6580-3	4.2	23

42	A new approach to counterpoise correction to BSSE. <i>Journal of Computational Chemistry</i> , 2006 , 27, 1203-19	3.9	85
41	A new specific mechanism for the acid catalysis of the addition step in the Baeyer-Villiger rearrangement. <i>Organic Letters</i> , 2006 , 8, 1763-5	6.2	81
40	Kinetics and mechanism of the beta-alanine + OH gas phase reaction: a quantum mechanical approach. <i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 285-92	3.6	12
39	Computational Quantum Chemistry: A Reliable Tool in the Understanding of Gas-Phase Reactions. <i>Journal of Chemical Education</i> , 2006 , 83, 481	2.4	6
38	Theoretical determination of the rate constant for OH hydrogen abstraction from toluene. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 10155-62	2.8	60
37	Isopropylcyclopropane + OH gas phase reaction: a quantum chemistry + CVT/SCT approach. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 1917-24	2.8	16
36	Glycolaldehyde + OH gas phase reaction: a quantum chemistry + CVT/SCT approach. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 169-80	2.8	62
35	A possible mechanism for furan formation in the tropospheric oxidation of dienes. <i>Environmental Science & Technology</i> , 2005 , 39, 8797-802	10.3	18
34	Quantum chemical and conventional TST calculations of rate constants for the OH+alkane reaction. <i>Chemical Physics</i> , 2005 , 310, 213-223	2.3	29
33	Ab initio study of Alanine conformers in gas phase. <i>Arkivoc</i> , 2005 , 2005, 7-18	0.9	10
32	The Baeyer-Villiger reaction of 23-oxosapogenins. <i>Arkivoc</i> , 2005 , 2005, 109-126	0.9	21
31	Mechanism and kinetics of the reaction of OH radicals with glyoxal and methylglyoxal: a quantum chemistry + CVT/SCT approach. <i>ChemPhysChem</i> , 2004 , 5, 1379-88	3.2	44
30	Quantum mechanical approach to isoleucine+OH gas phase reaction. Mechanism and kinetics. <i>Computational and Theoretical Chemistry</i> , 2004 , 676, 97-103		13
29	A theoretical investigation of the mechanism of the NO ₃ addition to alkenes. <i>Computational and Theoretical Chemistry</i> , 2004 , 684, 51-59		10
28	On the role of s-cis conformers in the reaction of dienes with OH radicals. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 2237-2244	3.6	20
27	Structure-Reactivity Relationship in Ketones + OH Reactions: A Quantum Mechanical and TST Approach. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2740-2749	2.8	45
26	Kinetics and mechanism of the gas-phase OH hydrogen abstraction reaction from methionine: A quantum mechanical approach. <i>International Journal of Chemical Kinetics</i> , 2003 , 35, 212-221	1.4	19
25	Rate coefficients and mechanism of the gas phase OH hydrogen abstraction reaction from serine: a quantum mechanical approach. <i>Computational and Theoretical Chemistry</i> , 2003 , 629, 165-174		18

24	Theoretical study of the initial reaction between OH and isoprene in tropospheric conditions. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 1392-1399	3.6	49
23	Mechanism and rate coefficients of the gas phase OH hydrogen abstraction reaction from asparagine: a quantum mechanical approach. <i>Computational and Theoretical Chemistry</i> , 2002 , 617, 77-86		30
22	Rate Coefficient and Mechanism of the Gas Phase OH Hydrogen Abstraction Reaction from Formic Acid: A Quantum Mechanical Approach. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 9520-9528	2.8	61
21	Quantum Chemical and Conventional Transition-State Theory Calculations of Rate Constants for the NO ₃ + Alkane Reaction. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 4645-4650	2.8	37
20	Gas phase reactions of C ₁₀ H ₁₄ alcohols with the OH radical: A quantum mechanical approach. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 4648-4662	3.6	89
19	OH hydrogen abstraction reactions from alanine and glycine: A quantum mechanical approach. <i>Journal of Computational Chemistry</i> , 2001 , 22, 1138-1153	3.5	55
18	On the importance of prereactive complexes in molecule-radical reactions: hydrogen abstraction from aldehydes by OH. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2018-24	16.4	211
17	A study of the nucleophilic attack of the beta-lactamic bond of antibiotics in water solution. <i>Computational and Theoretical Chemistry</i> , 2001 , 539, 233-243		5
16	Rate constant dependence on the size of aldehydes in the NO(3) + aldehydes reaction. An explanation via quantum chemical calculations and CTST. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8387-95	16.4	70
15	Evidence of A Possible Cycloaddition Channel in the Ethene + NO ₃ Reaction. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 9222-9230	2.8	9
14	A Quantum Chemical and TST Study of the OH Hydrogen-Abstraction Reaction from Substituted Aldehydes: FCHO and ClCHO. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 9034-9039	2.8	38
13	Reaction mechanism of the acyl-enzyme formation in lactam hydrolysis by means of quantum chemical modeling. <i>Computational and Theoretical Chemistry</i> , 2000 , 504, 13-28		10
12	A Quantum Chemical and Classical Transition State Theory Explanation of Negative Activation Energies in OH Addition To Substituted Ethenes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3715-3720	16.4	193
11	Mechanism of the OH+propene+D ₂ reaction: An ab initio study. <i>International Journal of Chemical Kinetics</i> , 1999 , 31, 29-36	1.4	44
10	Mechanism of the OH+propene+D ₂ reaction: An ab initio study 1999 , 31, 29		1
9	Formation of 2-hexene by cationic dimerization of propene: an ab initio and density functional theory study. <i>Theoretical Chemistry Accounts</i> , 1997 , 97, 277-282	1.9	4
8	Theoretical Model of Furan and 2-Furancarboxaldehyde. The Molecular Structure and Vibrational Spectra, Including Isotopic Effects. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 5607-5613		19
7	Model Calculations of Base-Catalysed 1,3-Proton Transfer Reactions in Indene-like Systems.. <i>Acta Chemica Scandinavica</i> , 1994 , 48, 423-427		2

- 6 Theoretical investigation of the ethene-ethene radical cation addition reaction. *The Journal of Physical Chemistry*, **1993**, 97, 12737-12741 16
- 5 Theoretical study of reactions of the 1-butene radical cation in frozen halocarbon matrixes. *The Journal of Physical Chemistry*, **1993**, 97, 12742-12744 4
- 4 Theoretical approach to cationic polymerization of alkenylfurans. II. Ab initio and semiempirical study of relevant steps in the reaction mechanism. *Journal of Polymer Science Part A*, **1992**, 30, 2497-2502^{3,5}
- 3 Theoretical modelling of the electrophilic substitution mechanism in furan. *Computational and Theoretical Chemistry*, **1992**, 253, 243-259 5
- 2 On the correlation between ionization potentials and bond angles in heterocyclic compounds. *Journal of Molecular Structure*, **1991**, 249, 305-312 3-4 6
- 1 Theoretical model of the electrophilic substitution in pentagonal unsaturated heterocycles. *Computational and Theoretical Chemistry*, **1990**, 209, 361-372 6