

J Raul Alvarez-Idaboy

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131
papers

4,914
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42
h-index

65
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138
ext. papers

5,482
ext. citations

3.8
avg, IF

6.08
L-index

#	Paper	IF	Citations
131	Food Antioxidants: Chemical Insights at the Molecular Level. <i>Annual Review of Food Science and Technology</i> , 2016 , 7, 335-52	14.7	222
130	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
129	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
128	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
127	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
126	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
125	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
124	Glutathione: mechanism and kinetics of its non-enzymatic defense action against free radicals. <i>RSC Advances</i> , 2011 , 1, 1763	3.7	108
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	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
121	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
120	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
119	Gas phase reactions of C1-C4 alcohols with the OH radical: A quantum mechanical approach. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 4648-4662	3.6	89
118	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
117	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
116	A new approach to counterpoise correction to BSSE. <i>Journal of Computational Chemistry</i> , 2006 , 27, 1203-19	3.9	85
115	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

114	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
113	Mechanism and kinetics studies on the antioxidant activity of sinapinic acid. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 11199-205	3.6	72
112	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
111	The Baeyer-Villiger reaction: solvent effects on reaction mechanisms. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 3682-90	3.9	66
110	Canolol: a promising chemical agent against oxidative stress. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8590-6	3.4	65
109	Piceatannol, a better peroxy radical scavenger than resveratrol. <i>RSC Advances</i> , 2013 , 3, 20209	3.7	64
108	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
107	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
106	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
105	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
104	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
103	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
102	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
101	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
100	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
99	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
98	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
97	Hydrogen Abstraction Reactions from Phenolic Compounds by Peroxy Radicals: Multireference Character and Density Functional Theory Rate Constants. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4634-42	2.8	47

96	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
95	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
94	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
93	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
92	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
91	Mechanism of the OH+propene+O ₂ reaction: An ab initio study. <i>International Journal of Chemical Kinetics</i> , 1999 , 31, 29-36	1.4	44
90	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 ⁴²	3.4	42
89	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
88	Free-radical scavenging by tryptophan and its metabolites through electron transfer based processes. <i>Journal of Molecular Modeling</i> , 2015 , 21, 213	2	38
87	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
86	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
85	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
84	Dihydroxybenzoic acids as free radical scavengers: mechanisms, kinetics, and trends in activity. <i>New Journal of Chemistry</i> , 2014 , 38, 2639	3.6	34
83	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
82	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
81	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
80	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
79	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

78	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
77	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
76	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
75	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
74	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
73	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
72	Thiophenols, Promising Scavengers of Peroxy Radicals: Mechanisms and kinetics. <i>Journal of Computational Chemistry</i> , 2019 , 40, 2103-2110	3.5	24
71	Antioxidant activity of selected natural polyphenolic compounds from soybean via peroxy radical scavenging. <i>RSC Advances</i> , 2014 , 4, 38918-38930	3.7	23
70	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
69	Reinvestigating the role of multiple hydrogen transfers in Baeyer-Villiger reactions. <i>Journal of Organic Chemistry</i> , 2007 , 72, 6580-3	4.2	23
68	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
67	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
66	The Baeyer-Villiger reaction of 23-oxosapogenins. <i>Arkivoc</i> , 2005 , 2005, 109-126	0.9	21
65	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
64	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
63	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
62	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
61	A possible mechanism for furan formation in the tropospheric oxidation of dienes. <i>Environmental Science & Technology</i> , 2005 , 39, 8797-802	10.3	18

60	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
59	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
58	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
57	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
56	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
55	Theoretical investigation of the ethene-ethene radical cation addition reaction. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 12737-12741		16
54	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
53	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
52	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
51	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
50	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
49	Tryptophan: antioxidant or target of oxidative stress? A quantum chemistry elucidation. <i>RSC Advances</i> , 2014 , 4, 56128-56131	3.7	14
48	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
47	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
46	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
45	Quantum mechanical approach to isoleucine+OH gas phase reaction. Mechanism and kinetics. <i>Computational and Theoretical Chemistry</i> , 2004 , 676, 97-103		13
44	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
43	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

42	Hydrolysis of a chlorambucil analogue. A DFT study. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 2359-66	2.8	12
41	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
40	Chalcogen effects on the primary antioxidant activity of chrysin and quercetin. <i>New Journal of Chemistry</i> , 2020 , 44, 9073-9082	3.6	11
39	The Antioxidant Capability of Higenamine: Insights from Theory. <i>Antioxidants</i> , 2020 , 9,	7.1	11
38	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
37	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
36	A theoretical investigation of the mechanism of the NO ₃ addition to alkenes. <i>Computational and Theoretical Chemistry</i> , 2004 , 684, 51-59		10
35	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
34	Ab initio study of alanine conformers in gas phase. <i>Arkivoc</i> , 2005 , 2005, 7-18	0.9	10
33	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
32	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
31	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
30	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
29	Radical scavenging activity of ascorbic acid analogs: kinetics and mechanisms. <i>Theoretical Chemistry Accounts</i> , 2018 , 137, 1	1.9	8
28	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
27	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
26	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
25	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

24	Theoretical study of copper complexes with lipoic and dihydrolipoic acids. <i>RSC Advances</i> , 2016 , 6, 107924-107932	3.7	6
23	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
22	On the correlation between ionization potentials and bond angles in heterocyclic compounds. <i>Journal of Molecular Structure</i> , 1991 , 249, 305-312	3.4	6
21	Theoretical model of the electrophilic substitution in pentagonal unsaturated heterocycles. <i>Computational and Theoretical Chemistry</i> , 1990 , 209, 361-372		6
20	Chemical repair of protein carbon-centred radicals: long-distance dynamic factors. <i>Canadian Journal of Chemistry</i> , 2016 , 94, 1119-1126	0.9	6
19	Computationally Designed Sesamol Derivatives Proposed as Potent Antioxidants. <i>ACS Omega</i> , 2020 , 5, 9566-9575	3.9	6
18	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
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	Theoretical modelling of the electrophilic substitution mechanism in furan. <i>Computational and Theoretical Chemistry</i> , 1992 , 253, 243-259		5
15	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
14	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
13	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
12	Theoretical study of reactions of the 1-butene radical cation in frozen halocarbon matrixes. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 12742-12744		4
11	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
10	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
9	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
8	Theoretical study of the complex reaction of O(3P) with trans-2-butene. <i>Theoretical Chemistry Accounts</i> , 2013 , 132, 1	1.9	3
7	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

- 6 Model Calculations of Base-Catalysed 1,3-Proton Transfer Reactions in Indene-like Systems.. *Acta Chemica Scandinavica*, **1994**, 48, 423-427 2
- 5 Free radical scavenging activity of newly designed sesamol derivatives. *New Journal of Chemistry*, **2021**, 45, 11960-11967 3.6 2
- 4 Mechanism of the OH+propene+O2 reaction: An ab initio study **1999**, 31, 29 1
- 3 Reinvestigation of Acetophenones Oxidation by Performic Acid in Formic Acid. *Journal of Physical Chemistry A*, **2019**, 123, 1968-1972 2.8 0
- 2 Chemical repair mechanisms of damaged tyrosyl and tryptophanyl residues in proteins by the superoxide radical anion. *New Journal of Chemistry*, **2020**, 44, 2505-2513 3.6
- 1 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^{2,5}