

Josefredo R Pliego

List of Publications by Year in descending order

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114
papers

3,490
citations

147566

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114
all docs

114
docs citations

114
times ranked

2912
citing authors

#	ARTICLE	IF	CITATIONS
1	The Cluster-Continuum Model for the Calculation of the Solvation Free Energy of Ionic Species. <i>Journal of Physical Chemistry A</i> , 2001, 105, 7241-7247.	1.1	408
2	Theoretical Calculation of pKa Using the Cluster-Continuum Model. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7434-7439.	1.1	323
3	Gibbs energy of solvation of organic ions in aqueous and dimethyl sulfoxide solutions. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 1622-1627.	1.3	195
4	Thermodynamic cycles and the calculation of pKa. <i>Chemical Physics Letters</i> , 2003, 367, 145-149.	1.2	165
5	Ionization of Organic Acids in Dimethyl Sulfoxide Solution: A Theoretical Ab Initio Calculation of the pKa Using a New Parametrization of the Polarizable Continuum Model. <i>Journal of Physical Chemistry A</i> , 2004, 108, 166-171.	1.1	121
6	New values for the absolute solvation free energy of univalent ions in aqueous solution. <i>Chemical Physics Letters</i> , 2000, 332, 597-602.	1.2	116
7	Mechanism of the Piperidine-Catalyzed Knoevenagel Condensation Reaction in Methanol: The Role of Iminium and Enolate Ions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5300-5307.	1.2	76
8	Parametrization of the PCM model for calculating solvation free energy of anions in dimethyl sulfoxide solutions. <i>Chemical Physics Letters</i> , 2002, 355, 543-546.	1.2	68
9	Hybrid discrete-continuum solvation methods. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2020, 10, e1440.	6.2	65
10	Absolute solvation free energy of Li ⁺ and Na ⁺ ions in dimethyl sulfoxide solution: A theoretical ab initio and cluster-continuum model study. <i>Journal of Chemical Physics</i> , 2005, 123, 074508.	1.2	64
11	Ab initio study of the hydroxide ion-water clusters: An accurate determination of the thermodynamic properties for the processes $n\text{H}_2\text{O} + \text{OH}^- \rightarrow \text{HO}^-(\text{H}_2\text{O})_n$ ($n=1-4$). <i>Journal of Chemical Physics</i> , 2000, 112, 4045-4052.	1.2	60
12	A Theoretical Analysis of the Free-Energy Profile of the Different Pathways in the Alkaline Hydrolysis of Methyl Formate In Aqueous Solution. <i>Chemistry - A European Journal</i> , 2002, 8, 1945.	1.7	59
13	Basic hydrolysis of formamide in aqueous solution: a reliable theoretical calculation of the activation free energy using the cluster-continuum model. <i>Chemical Physics</i> , 2004, 306, 273-280.	0.9	59
14	Absolute Single-Ion Solvation Free Energy Scale in Methanol Determined by the Lithium Cluster-Continuum Approach. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5129-5135.	1.2	54
15	Cluster-continuum quasichemical theory calculation of the lithium ion solvation in water, acetonitrile and dimethyl sulfoxide: an absolute single-ion solvation free energy scale. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26745-26755.	1.3	54
16	On the Calculation of the Absolute Solvation Free Energy of Ionic Species: Application of the Extrapolation Method to the Hydroxide Ion in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5155-5160.	1.2	51
17	Reaction Paths for Aqueous Decomposition of CCl ₂ . <i>The Journal of Physical Chemistry</i> , 1996, 100, 12410-12413.	2.9	46
18	Singlet-Triplet Gap, and the Electronic and Vibrational Spectra of Chlorophenylcarbene: A Combined Theoretical and Experimental Study. <i>Journal of Physical Chemistry A</i> , 1999, 103, 7481-7486.	1.1	46

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19	Revisiting the Mechanism of Neutral Hydrolysis of Esters: Water Autoionization Mechanisms with Acid or Base Initiation Pathways. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6487-6497.	1.2	46
20	Intramolecular Catalysis of Phosphodiester Hydrolysis by Two Imidazoles. <i>Journal of the American Chemical Society</i> , 2010, 132, 8513-8523.	6.6	45
21	First Solvation Shell Effects on Ionic Chemical Reactions: New Insights for Supramolecular Catalysis. <i>Journal of Physical Chemistry B</i> , 2009, 113, 505-510.	1.2	42
22	Effects of ion-pairing and hydration on the S _N Ar reaction of the F ⁺ with p-chlorobenzonitrile in aprotic solvents. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1118-1124.	1.3	41
23	A New Mechanism for the Reaction of Carbenes with OH Groups. <i>Journal of Physical Chemistry A</i> , 1999, 103, 3904-3909.	1.1	40
24	Chemisorption of SO ₂ on graphite surface: A theoretical ab initio and ideal lattice gas model study. <i>Chemical Physics</i> , 2005, 314, 127-133.	0.9	40
25	Theoretical Prediction of pK_a in Methanol: Testing SM8 and SMD Models for Carboxylic Acids, Phenols, and Amines. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5730-5739.	1.2	40
26	Unraveling the Mechanism of the Cinchoninium Ion Asymmetric Phase-Transfer-Catalyzed Alkylation Reaction. <i>ACS Catalysis</i> , 2013, 3, 613-616.	5.5	39
27	Chemoselective Nucleophilic Fluorination Induced by Selective Solvation of the S _N 2 Transition State. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1752-1758.	1.2	38
28	Revisiting the reactions of nucleophiles with arenediazonium ions: dediazonation of arenediazonium salts in aqueous and micellar solutions containing alkyl sulfates and alkanesulfonates and an ab initio analysis of the reaction pathway. <i>Perkin Transactions II RSC</i> , 2000, , 1896-1907.	1.1	35
29	Design of an organocatalyst for ion-pair molecule S _N 2 reactions: A new solvent effect on the reaction rate predicted by ab initio calculations. <i>Journal of Molecular Catalysis A</i> , 2005, 239, 228-234.	4.8	34
30	New insights on reaction pathway selectivity promoted by crown ether phase-transfer catalysis: Model ab initio calculations of nucleophilic fluorination. <i>Journal of Molecular Catalysis A</i> , 2012, 363-364, 489-494.	4.8	34
31	Ab initio conformational analysis of cyclooctane molecule. <i>Journal of Computational Chemistry</i> , 1998, 19, 524-534.	1.5	33
32	Modeling Protic to Dipolar Aprotic Solvent Rate Acceleration and Leaving Group Effects in S _N 2 Reactions: A Theoretical Study of the Reaction of Acetate Ion with Ethyl Halides in Aqueous and Dimethyl Sulfoxide Solutions. <i>Journal of Physical Chemistry A</i> , 2005, 109, 507-511.	1.1	32
33	Amphiphilic niobium oxyhydroxide as a hybrid catalyst for sulfur removal from fuel in a biphasic system. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 43-48.	10.8	28
34	Theoretical Design and Calculation of a Crown Ether Phase-Transfer-Catalyst Scaffold for Nucleophilic Fluorination Merging Two Catalytic Concepts. <i>Journal of Organic Chemistry</i> , 2016, 81, 8455-8463.	1.7	28
35	Ab Initio Study of the S _N 2 and E2 Mechanisms in the Reaction between the Cyanide Ion and Ethyl Chloride in Dimethyl Sulfoxide Solution. <i>Organic Letters</i> , 2005, 7, 1821-1823.	2.4	27
36	CMIRS Solvation Model for Methanol: Parametrization, Testing, and Comparison with SMD, SM8, and COSMO-RS. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12660-12668.	1.2	24

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37	Performance of the SMD and SM8 models for predicting solvation free energy of neutral solutes in methanol, dimethyl sulfoxide and acetonitrile. <i>Journal of Computer-Aided Molecular Design</i> , 2015, 29, 217-224.	1.3	23
38	Mechanism and free energy profile of base-catalyzed Knoevenagel condensation reaction. <i>RSC Advances</i> , 2016, 6, 57803-57810.	1.7	23
39	Reply to comment on: "Thermodynamic cycles and the calculation of pKa TM " [Chem. Phys. Lett. 367 (2003) 145]. <i>Chemical Physics Letters</i> , 2003, 381, 246-247.	1.2	21
40	Ab Initio, Density Functional Theory, and Continuum Solvation Model Prediction of the Product Ratio in the SN2 Reaction of NO ₂ -with CH ₃ CH ₂ Cl and CH ₃ CH ₂ Br in DMSO Solution. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10068-10074.	1.1	21
41	Ab initio investigation of the kinetics and mechanism of the neutral hydrolysis of formamide in aqueous solution. <i>Journal of the Brazilian Chemical Society</i> , 2007, 18, 469-702.	0.6	21
42	Rate acceleration of SN2 reactions through selective solvation of the transition state. <i>Chemical Physics Letters</i> , 2006, 423, 459-462.	1.2	20
43	Dynamical Discrete/Continuum Linear Response Shells Theory of Solvation: Convergence Test for NH ₄ ⁺ and OH ⁻ Ions in Water Solution Using DFT and DFTB Methods. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15941-15947.	1.2	20
44	Nucleophilic Fluorination with KF Catalyzed by 18-Crown-6 and Bulky Diols: A Theoretical and Experimental Study. <i>Journal of Organic Chemistry</i> , 2020, 85, 15457-15465.	1.7	20
45	Theoretical free energy profile and benchmarking of functionals for amino-thiourea organocatalyzed nitro-Michael addition reaction. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11529-11536.	1.3	20
46	The role of intermolecular forces in ionic reactions: the solvent effect, ion-pairing, aggregates and structured environment. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 1900-1914.	1.5	20
47	Absolute proton affinity and basicity of the carbenes CH ₂ , CF ₂ , CCl ₂ , C(OH) ₂ , FCOH, CPh ₂ and fluorenylidene. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 1881-1883.	1.7	19
48	Chemical reactions inside structured nano-environment: SN ₂ vs. E ₂ reactions for the F ⁻ +CH ₃ CH ₂ Cl system. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 779-782.	1.3	19
49	A comprehensive theoretical investigation of the transition states and a proposed kinetic model for the cinchoninium ion asymmetric phase-transfer catalyzed alkylation reaction. <i>Journal of Molecular Catalysis A</i> , 2016, 417, 192-199.	4.8	19
50	Potassium fluoride activation for the nucleophilic fluorination reaction using 18-crown-6, [2.2.2]-cryptand, pentaethylene glycol and comparison with the new hydro-crown scaffold: a theoretical analysis. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 3127-3137.	1.5	19
51	Theoretical Study of the Gas-Phase Reaction of Fluoride and Chloride Ions with Methyl Formate. <i>Journal of Physical Chemistry A</i> , 2002, 106, 371-378.	1.1	18
52	Free Energy Profile of the Reaction between the Hydroxide Ion and Ethyl Acetate in Aqueous and Dimethyl Sulfoxide Solutions: A Theoretical Analysis of the Changes Induced by the Solvent on the Different Reaction Pathways. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2520-2526.	1.1	18
53	Prediction of the pH-rate profile for dimethyl sulfide oxidation by hydrogen peroxide: The role of elusive H ₃ O ₂ ⁺ Ion. <i>International Journal of Quantum Chemistry</i> , 2014, 114, 501-507.	1.0	18
54	How Accurate is the SMD Model for Predicting Free Energy Barriers for Nucleophilic Substitution Reactions in Polar Protic and Dipolar Aprotic Solvents?. <i>Journal of the Brazilian Chemical Society</i> , 2016, . .	0.6	18

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55	Shells theory of solvation and the long-range Born correction. <i>Theoretical Chemistry Accounts</i> , 2011, 128, 275-283.	0.5	17
56	Molecular dynamics and cluster-continuum insights on bulk alcohols effects on S N 2 reactions of potassium and cesium fluorides with alkyl halides. <i>Journal of Molecular Liquids</i> , 2017, 237, 157-163.	2.3	17
57	Theoretical design of new macrocycles for nucleophilic fluorination with KF: thiourea-crown-ether is predicted to overcome [2.2.2]-cryptand. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1513-1523.	1.7	16
58	Ligand exchange ion-molecule reactions of simple silyl and germyl cations. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 551-562.	0.7	15
59	Regioselective organocatalysis: a theoretical prediction of the selective rate acceleration of the SN2 reaction between an acetate ion and primary alkyl chlorides in DMSO solution. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 1667.	1.5	15
60	Stability of hydroxylamine isomers in aqueous solution: Ab initio study using continuum, cluster-continuum and Shells Theory of Solvation. <i>Chemical Physics Letters</i> , 2011, 518, 61-64.	1.2	15
61	Reactivity and stability of ion pairs, dimers and tetramers versus solvent polarity: SNAr fluorination of 2-bromobenzonitrile with tetramethylammonium fluoride. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	15
62	Searching for the ylide structure. An ab initio study of the H ₂ O⋯CCl ₂ complex. <i>Chemical Physics Letters</i> , 1996, 249, 136-140.	1.2	14
63	Acid-catalyzed transesterification and esterification in methanol: a theoretical cluster-continuum investigation of the mechanisms and free energy barriers. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	0.5	14
64	Theoretical and experimental investigation of the formation of E- and Z-Aldimines from the reaction of methylamine with acetaldehyde. <i>Journal of the Brazilian Chemical Society</i> , 1999, 10, 381.	0.6	13
65	Theoretical study of the mechanism and regioselectivity of the alkylation reaction of the phenoxide ion in polar protic and aprotic solvents. <i>Computational and Theoretical Chemistry</i> , 2018, 1138, 117-122.	1.1	13
66	Second harmonic generation in pyrazoline derivatives of dibenzylideneacetones and chalcone: A combined experimental and theoretical approach. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112147.	2.0	13
67	A theoretical study of the HCHO+CCl ₂ reaction: Cycloaddition or ylide formation?. <i>Journal of Chemical Physics</i> , 1997, 106, 3582-3586.	1.2	12
68	Micro-solvation and counter ion effects on ionic reactions: Activation of potassium fluoride with 18-crown-6 and tert-butanol in aprotic solvents. <i>Journal of Molecular Liquids</i> , 2020, 319, 114211.	2.3	12
69	Bifunctional Primary Amino-thiourea Asymmetric Catalysis: The Iminium Ion Mechanism in the Michael Addition of Nitromethane to Enone. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 1472-1485.	1.3	12
70	Kinetics of the H ₂ O+CCl ₂ reaction in gas phase and in solution by an insertion mechanism. <i>Chemical Physics Letters</i> , 1998, 285, 121-126.	1.2	11
71	The role of ammonia oxide in the reaction of hydroxylamine with carboxylic esters. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6217-6224.	1.5	11
72	Cluster expansion of the solvation free energy difference: Systematic improvements in the solvation of single ions. <i>Journal of Chemical Physics</i> , 2017, 147, 034104.	1.2	11

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73	Mechanism of nucleophilic fluorination promoted by bis-tert-butylalcohol-functionalized crown-6-calix[4]arene. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25648.	1.0	10
74	How difficult are anion-molecule SNAr reactions of unactivated arenes in the gas phase, dimethyl sulfoxide, and methanol solvents?. <i>Structural Chemistry</i> , 2019, 30, 75-83.	1.0	10
75	The role of carboxylic acid impurity in the mechanism of the formation of aldimines in aprotic solvents. <i>Computational and Theoretical Chemistry</i> , 2020, 1191, 113053.	1.1	10
76	Quantum and classical two-dimensional analysis of rainbow structures in the Xe+CO ₂ rotational excitation at 0.2 eV collision energy and on a repulsive potential. <i>Physical Review A</i> , 1995, 52, 342-349.	1.0	9
77	Jacobsen's Catalyst Interaction with Polydimethylsiloxane/Tetraethoxysilane Network and Solvent Molecules: Theoretical Design of a New Polymeric Membrane. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14830-14834.	1.5	9
78	Infinite dilution activity coefficient from SMD calculations: accuracy and performance for predicting liquid-liquid equilibria. <i>Journal of Molecular Modeling</i> , 2018, 24, 56.	0.8	9
79	Single-ion solvation free energy: A new cluster-continuum approach based on the cluster expansion method. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26902-26910.	1.3	9
80	Analysis of state-to-state differential cross sections in two-dimensional Xe-CO ₂ scattering with long-range effects. <i>Physical Review A</i> , 1996, 54, 2091-2098.	1.0	8
81	Free radical mechanism of the Cl ₂ addition to acetylene. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 2895-2900.	1.7	8
82	Free Energy Profile of a Model Palladium Catalyzed Fluorination of Aryl Bromide with Cesium Fluoride. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9850-9856.	1.1	8
83	Reaction of CCl ₂ with CH ₂ NH and the formation of dipolar and biradical ylide structures. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1997, , 2365-2370.	0.9	7
84	Thermodynamics of Ylide Formation from Carbenes and Carbonyl Compounds. <i>Journal of the Brazilian Chemical Society</i> , 1998, 9, 181-186.	0.6	7
85	A theoretical ab initio and Monte Carlo simulation study of the pyridine+CCl ₂ reaction kinetics in the gas phase and in carbon tetrachloride solution using canonical flexible transition state theory. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1031-1036.	1.3	7
86	Modelos contínuos do solvente: fundamentos. <i>Química Nova</i> , 2006, 29, 535-542.	0.3	7
87	On the mechanism of the reaction between aryl acetates and hydroxylamine. <i>Arkivoc</i> , 2007, 2007, 199-214.	0.3	7
88	Car-Parrinello molecular dynamics study of CuF, AgF, CuPF ₆ and AgPF ₆ in acetonitrile solvent and Cluster-Continuum calculation of the solvation free energy of Cu(I), Ag(I) and Li(I). <i>Journal of Molecular Liquids</i> , 2022, 359, 119368.	2.3	7
89	A comparison of state-to-state rotational total cross sections using two- and three-dimensional close coupled approaches. <i>Chemical Physics Letters</i> , 1996, 251, 346-352.	1.2	6
90	Ab initio study of the Cl+H ₂ S atmospheric reaction: is there a breakdown of the transition state theory?. <i>Molecular Physics</i> , 2008, 106, 841-848.	0.8	6

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91	Fast Screening of Solvents for Simultaneous Extraction of Furfural, 5-Hydroxymethylfurfural and Levulinic Acid from Aqueous Solution Using SMD Solvation Free Energies. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	6
92	Cleaving paraoxon with hydroxylamine: Ammonium oxide isomer favors a Frontside attack mechanism. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e3866.	0.9	6
93	Synthesis and characterization of 1,3,5-triarylpyrazol-4-ols and 3,5-diarylisoxazol-4-ols from chalcones and theoretical studies of the stability of pyrazol-4-ol toward acid dehydration. <i>Journal of Molecular Structure</i> , 2020, 1204, 127536.	1.8	6
94	Hydroperoxo on the Niobium Oxyhydroxide Surface as the Active Species in the Catalyzed Oxidation of Organic Sulfide by Hydrogen Peroxide. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9369-9375.	1.5	5
95	Free energy profile and microkinetic modeling of base-catalyzed conjugate addition reaction of nitroalkanes to α,β -unsaturated ketones in polar and apolar solvents. <i>Journal of Molecular Modeling</i> , 2018, 24, 152.	0.8	4
96	Counterion and solvent effects in the C- and O-alkylation of the phenoxide ion with allyl chloride. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e3947.	0.9	4
97	Mechanisms of the formation of imines in aqueous solution and the effect of the pH: a theoretical analysis. <i>Arkivoc</i> , 2020, 2020, 34-52.	0.3	4
98	SN2 versus E2 reactions in a complex microsolvated environment: theoretical analysis of the equilibrium and activation steps of a nucleophilic fluorination. <i>Journal of Molecular Modeling</i> , 2022, 28, .	0.8	4
99	Electronic spectra of the nitrile ylides: an ab initio multiconfigurational second-order quasidegenerate perturbation theory study. <i>Chemical Physics Letters</i> , 2000, 318, 142-148.	1.2	3
100	Dual bifunctional catalysis and the β -effect in the reaction of hydroxylamine with phenylacetate. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 2165-2170.	0.6	3
101	Prediction of Phase Separation Using a Modified Regular Solution Theory and the SMD Continuum Solvation Model. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	3
102	Solvent selection for chemical reactions: automated computational screening of solvents using the SMD model. <i>Quimica Nova</i> , 0, , .	0.3	3
103	Copper-mediated aromatic fluorination using N-heterocycle-carbene ligand: Free energy profile of the Cu(I)/Cu(III) and Cu(II) radical mechanisms. <i>Journal of Organometallic Chemistry</i> , 2022, 973-974, 122397.	0.8	3
104	Electron affinity and dipole moment of 1,2,4,5-tetraoxanes antimalarials and correlation with activity against <i>Plasmodium falciparum</i> . <i>Medicinal Chemistry Research</i> , 2014, 23, 5197-5203.	1.1	2
105	Is the iminium ion mechanism viable in the piperidine-catalyzed 1,4-conjugate addition reaction of nitroalkanes to α,β -unsaturated ketones?. <i>Computational and Theoretical Chemistry</i> , 2019, 1164, 112541.	1.1	2
106	Phenol alkylation under phase transfer catalysis conditions: Insights on the mechanism and kinetics from computations. <i>Molecular Catalysis</i> , 2021, 506, 111566.	1.0	2
107	The role of nonelectrostatic solvation to chemical reactions in liquid phase. <i>Journal of the Brazilian Chemical Society</i> , 2005, 16, 227-231.	0.6	2
108	QM/MM and molecular dynamics simulation of the structure and dissociation of CuF in acetonitrile solvent. <i>Chemical Physics Letters</i> , 2022, 793, 139468.	1.2	2

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109	Diradical character of the bond breaking in the reaction of Br ₂ with benzene: Reliable barriers using the CR-CC(2,3) method. Computational and Theoretical Chemistry, 2021, 1198, 113171.	1.1	1
110	Ab initio. Theoretica Chimica Acta, 1996, 93, 333.	0.9	1
111	Friedel-Crafts Reaction: Theoretical Study of the Mechanism of Benzene Alkylation with Isopropyl Chloride Catalyzed by AlCl ₃ and Al ₂ Cl ₆ . Journal of the Brazilian Chemical Society, 0, , .	0.6	1
112	Catalytic cycle and off-cycle steps in the palladium-catalyzed fluorination of aryl bromide with biaryl monophosphine ligands: Theoretical free energy profile. Molecular Catalysis, 2021, 506, 111540.	1.0	0
113	Large amplitude vibrations in the HFCIF complex. Journal of the Brazilian Chemical Society, 1997, 8, 555-562.	0.6	0
114	BUILDING THE LIQUID-VAPOUR EQUILIBRIUM CURVE THROUGH A CUBIC EQUATION OF STATE: USE OF EXCEL FOR TEACHING PHYSICAL-CHEMISTRY. Quimica Nova, 2016, , .	0.3	0