

Carlos Bernardes

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,913
citations

279487

23
h-index

288905

40
g-index

82
all docs

82
docs citations

82
times ranked

2233
citing authors

#	ARTICLE	IF	CITATIONS
19	Heat capacity and thermodynamics of solid and liquid pyridine-3-carboxylic acid (nicotinic acid) over the temperature range 296K to 531K. <i>Journal of Chemical Thermodynamics</i> , 2012, 55, 23-28.	1.0	28
20	Energetics and Structure of Simvastatin. <i>Molecular Pharmaceutics</i> , 2013, 10, 2713-2722.	2.3	26
21	Structure-property relationships in protic ionic liquids: a study of solvent-solute and solvent-solute interactions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28133-28138.	1.3	26
22	Effect of Ring Substitution on the S-H Bond Dissociation Enthalpies of Thiophenols. An Experimental and Computational Study. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9949-9958.	1.1	25
23	Energetics of Cresols and of Methylphenoxy Radicals. <i>Journal of Physical Chemistry A</i> , 2007, 111, 8741-8748.	1.1	25
24	A general strategy for the experimental study of the thermochemistry of protic ionic liquids: enthalpy of formation and vaporisation of 1-methylimidazolium ethanoate. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4440.	1.3	22
25	From Molecules to Crystals: The Solvent Plays an Active Role Throughout the Nucleation Pathway of Molecular Organic Crystals. <i>Crystal Growth and Design</i> , 2014, 14, 5436-5441.	1.4	21
26	High ionicity ionic liquids (HILLs): comparing the effect of ethylsulfonate and ethylsulfate anions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18138.	1.3	20
27	Crystallization of 4-Hydroxyacetophenone from Water: Control of Polymorphism via Phase Diagram Studies. <i>Crystal Growth and Design</i> , 2012, 12, 2932-2941.	1.4	19
28	A New Thermodynamically Favored Flubendazole/Maleic Acid Binary Crystal Form: Structure, Energetics, and <i>in Silico</i> PBPK Model-Based Investigation. <i>Crystal Growth and Design</i> , 2018, 18, 2377-2386.	1.4	19
29	Energetics of Aqueous Solutions of the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethylsulfate. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13179-13188.	1.2	18
30	Thermochemistry of 1,1,3,3-tetramethylguanidine and 1,1,3,3-tetramethylguanidinium nitrate. <i>Journal of Chemical Thermodynamics</i> , 2014, 77, 179-189.	1.0	17
31	Solvation of alcohols in ionic liquids - understanding the effect of the anion and cation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2536-2548.	1.3	17
32	Polymorphism in Simvastatin: Twinning, Disorder, and Enantiotropic Phase Transitions. <i>Molecular Pharmaceutics</i> , 2018, 15, 5349-5360.	2.3	17
33	Designing the ammonium cation to achieve a higher hydrophilicity of bistriflimide-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19307-19313.	1.3	17
34	Energetics of Glycine Cocrystal or Salt Formation with Two Regioisomers: Fumaric Acid and Maleic Acid. <i>Crystal Growth and Design</i> , 2019, 19, 5054-5064.	1.4	17
35	Polymorphism in 4-Hydroxybenzaldehyde: A Crystal Packing and Thermodynamic Study. <i>Crystal Growth and Design</i> , 2013, 13, 2803-2814.	1.4	15
36	The complex structure of ionic liquids at an atomistic level: from red-and-green to charge templates. <i>Pure and Applied Chemistry</i> , 2014, 86, 119-133.	0.9	15

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37	Structure-property relationships in protic ionic liquids: a thermochemical study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19928-19936.	1.3	15
38	Extraction Optimization and Structural and Thermal Characterization of the Antimicrobial Abietane 7 β -Acetoxy-6 α -hydroxyroyleanone. <i>Molecular Pharmaceutics</i> , 2018, 15, 1412-1419.	2.3	15
39	Polymorphism in 4-Hydroxyacetophenone: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5179-5184.	1.2	14
40	Structure and Energetics of a New Hydrate of 4-Hydroxyacetophenone. <i>Crystal Growth and Design</i> , 2010, 10, 3070-3076.	1.4	12
41	Solvent effects on the polar network of ionic liquid solutions. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 194116.	0.7	12
42	Mixtures of the 1-ethyl-3-methylimidazolium acetate ionic liquid with different inorganic salts: insights into their interactions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2756-2766.	1.3	12
43	Neat ionic liquids versus ionic liquid mixtures: a combination of experimental data and molecular simulation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23305-23309.	1.3	12
44	Handling CO ₂ sorption mechanism in PIL@IL composites. <i>Journal of CO₂ Utilization</i> , 2020, 41, 101225.	3.3	12
45	Kinetics and Mechanism of the Thermal Dehydration of a Robust and Yet Metastable Hemihydrate of 4-Hydroxynicotinic Acid. <i>Crystal Growth and Design</i> , 2015, 15, 3511-3524.	1.4	11
46	Tautomer selection through solvate formation: the case of 5-hydroxynicotinic acid. <i>CrystEngComm</i> , 2019, 21, 2220-2233.	1.3	11
47	Some practical aspects of heat capacity determination by differential scanning calorimetry. <i>Thermochimica Acta</i> , 2020, 687, 178574.	1.2	11
48	Polymorphism in 4-hydroxyacetophenone: A vibrational analysis. <i>Journal of Molecular Structure</i> , 2014, 1078, 181-187.	1.8	10
49	Modeling the structure and thermodynamics of ferrocenium-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10200-10208.	1.3	10
50	Modeling Halogen Bonds in Ionic Liquids: A Force Field for Imidazolium and Halo-Imidazolium Derivatives. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 6167-6176.	2.3	10
51	Energetics of the Thermal Dimerization of Acenaphthylene to Heptacyclene. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2299-2307.	1.1	9
52	Thermal Stability of Simvastatin under Different Atmospheres. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 241-248.	1.6	9
53	Thermochemistry of 4-HOC ₆ H ₄ COR (R = H, CH ₃ , C ₂ H ₅ , n-C ₃ H ₇ , n-C ₄ H ₉ , n-C ₅ H ₁₁ , and n-C ₆ H ₁₃) Tj ETOq1 1 0,784314 1.0 9	1.0	9
54	Comparative structural analyses in four ionic liquid systems: the two low-q peaks of IL structure factor functions. <i>Molecular Simulation</i> , 2018, 44, 478-484.	0.9	9

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55	Towards the development of nanosprings from confined carbyne chains. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 117, 113831.	1.3	9
56	The Solubility of Gases in Ionic Liquids: A Chemoinformatic Predictive and Interpretable Approach. <i>ChemPhysChem</i> , 2021, 22, 2190-2200.	1.0	9
57	A Robust yet Metastable New Hemihydrate of 4-Hydroxynicotinic Acid. <i>Crystal Growth and Design</i> , 2011, 11, 2803-2810.	1.4	8
58	The standard molar enthalpy of the base catalysed hydrolysis of methyl paraben revisited. <i>Journal of Chemical Thermodynamics</i> , 2016, 103, 176-180.	1.0	8
59	Structural and energetic characterization of anhydrous and hemihydrated 2-mercaptoimidazole: Calorimetric, X-ray diffraction, and computational studies. <i>Journal of Chemical Thermodynamics</i> , 2016, 95, 35-48.	1.0	8
60	ForConX: A forcefield conversion tool based on XML. <i>Journal of Computational Chemistry</i> , 2017, 38, 629-638.	1.5	8
61	A fully automatic apparatus for thermal analysis of crystallization from solution and metastable zone width determinations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 493-500.	2.0	7
62	Thermochemistry of 2,2,5,7,8-pentamethylchroman-6-ol (PMC) and 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid (trolox). <i>Journal of Chemical Thermodynamics</i> , 2014, 73, 140-147.	1.0	7
63	Thermochemistry of 1-alkylimidazoles. <i>Journal of Chemical Thermodynamics</i> , 2015, 80, 59-64.	1.0	7
64	The Curious Case of Acetaldehyde Phenylhydrazone: Resolution of a 120 Year Old Puzzle where Forms with Vastly Different Melting Points Have the Same Structure. <i>Crystal Growth and Design</i> , 2019, 19, 907-917.	1.4	7
65	Thermochemistry of 2- and 4-biphenylmethanol. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 1384-1391.	1.0	6
66	Tuning the miscibility of water in imide-based ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25236-25242.	1.3	6
67	Linking Aggregation in Solution, Solvation, and Solubility of Simvastatin: An Experimental and MD Simulation Study. <i>Crystal Growth and Design</i> , 2021, 21, 544-551.	1.4	6
68	Real-Time In situ XRD Study of Simvastatin Crystallization in Levitated Droplets. <i>Crystal Growth and Design</i> , 2021, 21, 4665-4673.	1.4	6
69	DMSO/IL solvent systems for cellulose dissolution: Binary or ternary mixtures?. <i>Journal of Molecular Liquids</i> , 2022, 345, 117810.	2.3	6
70	Isotropic liquid state of triacylglycerols. <i>Journal of Molecular Liquids</i> , 2022, 353, 118703.	2.3	6
71	Size Matters: An Experimental and Computational Study of the Influence of Particle Size on the Lattice Energy of NaCl. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4387-4396.	1.5	5
72	A force field for MD simulations on rhenium organometallic compounds developed from enthalpy of sublimation and X-ray diffraction measurements. <i>Journal of Chemical Thermodynamics</i> , 2019, 133, 60-69.	1.0	5

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73	Water Solubility Trends in Ionic Liquids: The Quantitative Structure–Property Relationship Model versus Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11491-11497.	1.2	5
74	A new polymorph of 4-hydroxyvalerophenone revealed by thermoanalytical and X-ray diffraction studies. <i>European Physical Journal: Special Topics</i> , 2017, 226, 849-855.	1.2	4
75	Kinetics of the base catalysed hydrolysis of methyl paraben revisited: Implications for determination of the effective volume of flow-microcalorimeters used to study cell cultures. <i>Thermochimica Acta</i> , 2018, 659, 82-88.	1.2	4
76	C13 – a new empirical force field to characterize the mechanical behavior of carbyne chains. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 758-771.	1.3	4
77	A calorimetric system based on the LKB 10700-1 flow microcalorimeter. <i>Measurement Science and Technology</i> , 2009, 20, 075107.	1.4	3
78	First and Second Dissociation Enthalpies in Bi-Component Crystals Consisting of Maleic Acid and L-Phenylalanine. <i>Molecules</i> , 2021, 26, 5714.	1.7	3
79	DLPGEN: Preparing Molecular Dynamics Simulations with Support for Polarizable Force Fields. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 1471-1478.	2.5	3
80	Standard molar enthalpy of the orthorhombic to monoclinic polymorphic phase transition in 4-hydroxyacetophenone from enthalpy of solution measurements. <i>Journal of Chemical Thermodynamics</i> , 2021, 158, 106445.	1.0	2
81	Conformational and Nonconformational Polymorphism in 4-Hydroxyvalerophenone: A Structure–Energetics–Dynamics Perspective. <i>Crystal Growth and Design</i> , 2020, 20, 2321-2336.	1.4	1