

Piotr Barczynski

List of Publications by Year in descending order

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38
papers

1,072
citations

840119

11
h-index

395343

33
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38
all docs

38
docs citations

38
times ranked

655
citing authors

#	ARTICLE	IF	CITATIONS
1	Aromaticity as a quantitative concept. 1. A statistical demonstration of the orthogonality of classical and magnetic aromaticity in five- and six-membered heterocycles. <i>Journal of the American Chemical Society</i> , 1989, 111, 7-15.	6.6	446
2	Aromaticity as a Quantitative Concept. 4. Less familiar five- and six-membered monocyclic heterocycles. <i>Journal für Praktische Chemie</i> , 1990, 332, 885-897.	0.2	110
3	Aromaticity as a Quantitative Concept. 2. Sixteen familiar five- and six-membered monocyclic heterocycles. <i>Journal für Praktische Chemie</i> , 1990, 332, 853-869.	0.2	99
4	Aromaticity as a Quantitative Concept. 3. Benzo-fused five- and six-membered heterocycles. <i>Journal für Praktische Chemie</i> , 1990, 332, 870-884.	0.2	95
5	Chlorine-35 nuclear quadrupole resonance and infrared spectroscopic studies of hydrogen bonding in complexes of dichloroacetic acid with nitrogen and oxygen bases: correlation of spectroscopic properties with proton affinity and aqueous pKa. <i>The Journal of Physical Chemistry</i> , 1990, 94, 1279-1285.	2.9	45
6	Spectroscopic differences between molecular ($O\text{H}\cdots N$) and ionic pair ($O\text{H}\cdots N^+$) hydrogen complexes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1985, , 765-771.	0.9	28
7	Influence of Electrostatic Interactions on Complexes with Short $O\cdots O$ Hydrogen Bonds in Basic Salts of Pyridine Betaines and Acid Salts of α -Phenylalkanoic Acids. <i>Israel Journal of Chemistry</i> , 1999, 39, 253-260.	1.0	26
8	A fast and sensitive continuous flow nanobiodetector based on polyaniline nanofibrils. <i>Mikrochimica Acta</i> , 2007, 159, 201-206.	2.5	24
9	Molecular structure of 1,3-bis(carboxymethyl)imidazolium bromide and its betaine form in crystal. <i>Journal of Molecular Structure</i> , 2008, 876, 170-176.	1.8	19
10	Antifungal, anticancer, and docking studies of colchicine complexes with monovalent metal cation salts. <i>Chemical Biology and Drug Design</i> , 2019, 94, 1930-1943.	1.5	14
11	Comparison of low-barrier hydrogen bonds in acid salts of carboxylic acids and basic salts of betaines – FTIR study. <i>Journal of Molecular Structure</i> , 1999, 484, 117-124.	1.8	13
12	Molecular structure of 8-hydroxy-1-methylquinolinium iodide hydrate in crystal and solution. <i>Journal of Molecular Structure</i> , 2006, 791, 106-110.	1.8	12
13	Interaction of 2,4,6-trimethylpyridine with some halogenocarboxylic acids in benzene and dichloromethane. Problem of stoichiometry. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1987, , 901-906.	0.9	11
14	Conductance studies of acid-base equilibria between 4-methoxy-2,6-dimethylpyridine N-oxide and trifluoroacetic acid in nitrobenzene. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 2489-2495.	1.7	11
15	7-Deacetyl-10-alkylthiocolchicine derivatives – new compounds with potent anticancer and fungicidal activity. <i>MedChemComm</i> , 2018, 9, 1708-1714.	3.5	11
16	Structure of 3,4-dicarboxy-1-methylpyridinium inner salt studied by X-ray diffraction, DFT calculations, FTIR, Raman and NMR spectra. <i>Journal of Molecular Structure</i> , 2011, 994, 216-222.	1.8	10
17	X-ray and spectroscopic studies of the molecular structure of bis(8-oxy-1-methylquinolinium) hydroiodide. <i>Journal of Molecular Structure</i> , 2006, 800, 135-139.	1.8	9
18	Molecular structure, hydrogen bonding and spectroscopic properties of the complex of piperidine-4-carboxylic acid with chloroacetic acid. <i>Journal of Molecular Structure</i> , 2008, 889, 112-118.	1.8	9

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19	Influence of excess base and solvents on hydrogen bond and proton transfer in complexes between dichloroacetic acid and substituted pyridines. <i>Journal of Molecular Liquids</i> , 1987, 33, 101-117.	2.3	8
20	DFT, FTIR, Raman and NMR study of 1-methyl-8-oxyquinolinium betaine. <i>Journal of Molecular Structure</i> , 2008, 887, 20-33.	1.8	7
21	Structure of 6-hydroxy-1-methylquinolinium chloride hydrate studied by X-ray, DFT calculations, FTIR and NMR spectroscopes. <i>Journal of Molecular Structure</i> , 2010, 984, 359-370.	1.8	7
22	Alkaloid from <i>Colchicum</i> species in complexes with lithium, sodium, potassium and magnesium cations – spectroscopic characterization, semiempirical and theoretical calculation, fungicidal and cytotoxic activity. <i>Journal of Molecular Structure</i> , 2020, 1204, 127520.	1.8	7
23	Conductance studies of acid–base equilibria in 2,4,6-trimethylpyridinium trifluoroacetate in nitrobenzene. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992, 88, 1261-1266.	1.7	6
24	Crystal structure and physical properties of 1-methyl-3-(carboxymethyl)benzimidazolium betaine·CuBr ₂ in crystal and water solution. <i>New Journal of Chemistry</i> , 2016, 40, 10526-10535.	1.4	6
25	Molecular structure, hydrogen bonding, basicity and spectroscopic properties of 3-hydroxypyridine betaine hydrochloride monohydrate. <i>Journal of Molecular Structure</i> , 2007, 832, 63-72.	1.8	5
26	Four new amide derivatives of pyridinecarboxylic acids. Synthesis, structure and spectroscopic characterization. <i>Journal of Molecular Structure</i> , 2017, 1145, 86-93.	1.8	5
27	Interactions of pyridine perchlorate with pyridine in acetonitrile. <i>Journal of Molecular Liquids</i> , 1983, 26, 1-10.	2.3	4
28	Structure and conformation of 2,3-diethoxycarbonyl-1-methylpyridinium iodide studied by NMR, FTIR, Raman, X-ray diffraction and DFT methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 208-218.	2.0	4
29	Colchicine Complexes with Lithium, Sodium and Potassium Salts – Spectroscopic Studies. <i>Croatica Chemica Acta</i> , 2016, 89, .	0.1	4
30	Structure, spectroscopy and DFT calculations of 1,2-di(3-hydroxymethylpyridinium)ethane dibromide. <i>Journal of Molecular Structure</i> , 2016, 1120, 341-350.	1.8	4
31	Quantum-chemical, NMR, FT IR, and ESI MS studies of complexes of colchicine with Zn(II). <i>Journal of Molecular Modeling</i> , 2017, 23, 127.	0.8	3
32	Synthesis, complexation studies and structural characterization of d and f metal ion complexes with 4-chloroquinaldinic acid N-oxide. <i>Journal of Molecular Structure</i> , 2012, 1010, 59-66.	1.8	2
33	Structure and hydrogen bonding in 5-(dimethylphenylammonium)-valeric acid bromide hydrate. <i>Vibrational Spectroscopy</i> , 2017, 92, 188-193.	1.2	2
34	Syntheses, Crystal Structures and Spectroscopic Studies of Bis[1-methyl-3-(methoxycarbonylmethyl)benzimidazolium] ²⁺ [CuBr ₄] ²⁻ and [ZnBr ₄] ²⁻ Compounds. <i>ChemistrySelect</i> , 2017, 2, 11120-11130.	0.7	2
35	Spectroscopic, structural and theoretical investigation of 1,3-bis(3-hydroxymethylpyridinium)propane dibromide, tetrabromozincate and tetrabromocuprate. <i>Journal of Molecular Structure</i> , 2018, 1163, 345-356.	1.8	2
36	Spectroscopic and structural investigation of 2,5-dicarboxy-1-methylpyridinium inner salt. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 586-595.	2.0	1

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37	Human Body Fluid Ions In colchicine complexes ESI MS, MADLI MS, Spectroscopic, DFT Studies and Fungicidal Activity of colchicine complexes With Sodium, Potassium, Magnesium and calcium carbonates and Sulphates. IOSR Journal of Pharmacy, 2016, 06, 40-55.	0.1	1
38	Structural, spectroscopic and theoretical studies of short OHO hydrogen bonds in 2:1 complexes of 1-methyl-6-oxyquinolinium betaine with mineral acids. Journal of Molecular Structure, 2010, 984, 326-331.	1.8	0