Iwona Helena Kowalczyk

List of Publications by Year
in descending order

54	801	586496 16	620720 26
papers	citations	h-index	g-index

54	54	54	767
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Antimicrobial Activity of Gemini Surfactants with Ether Group in the Spacer Part. Molecules, 2021, 26, 5759.	1.7	9
2	Molecular structure, spectral and thermal properties and in silico biological activity of new bis-phthalimidopropylalkylammonium conjugates of bile acids. Journal of Molecular Structure, 2021, 1243, 130814.	1.8	1
3	Antimicrobial Activity of Gemini Surfactants with Azapolymethylene Spacer. Molecules, 2020, 25, 4054.	1.7	10
4	Cationic clevelable surfactants as highly efficient corrosion inhibitors of stainless steel AISI 304: Electrochemical study. Journal of Molecular Liquids, 2020, 315, 113675.	2.3	24
5	Functionalised novel gemini surfactants as corrosion inhibitors for mild steel in 50â€¯mM NaCl: Experimental and theoretical insights. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 580, 123699.	2.3	37
6	Heteroatoms and Ï€ electrons as favorable factors for efficient corrosion protection. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1099-1110.	0.8	16
7	Effect of the alkyl chain length on micelle formation for bis(N-alkyl-N,N-dimethylethylammonium)ether dibromides. Comptes Rendus Chimie, 2019, 22, 386-392.	0.2	16
8	Biodegradability and aquatic toxicity of new cleavable betainate cationic oligomeric surfactants. Journal of Hazardous Materials, 2019, 371, 108-114.	6.5	27
9	Gemini surfactant as multifunctional corrosion and biocorrosion inhibitors for mild steel. Bioelectrochemistry, 2019, 128, 252-262.	2.4	51
10	Influence of different counterions on gemini surfactants with polyamine platform as corrosion inhibitors for stainless steel AISI 304 in 3â€¯M HCl. Journal of Molecular Liquids, 2018, 268, 824-831.	2.3	41
11	Effectiveness of O -bridged cationic gemini surfactants as corrosion inhibitors for stainless steel in 3 M HCl: Experimental and theoretical studies. Journal of Molecular Liquids, 2018, 249, 1113-1124.	2.3	89
12	Quaternary Alkylammonium Salts as Cleaning and Disinfectant Agents. Tenside, Surfactants, Detergents, 2018, 55, 432-438.	0.5	10
13	Design, synthesis and application of new bile acid ligands with 1,2,3-triazole ring. Supramolecular Chemistry, 2017, 29, 81-93.	1.5	6
14	Conformational flexibility and pseudosymmetric aggregation in a betainium salt hydrate. Structural Chemistry, 2017, 28, 859-865.	1.0	4
15	Synthesis, Structure, Surface and Antimicrobial Properties of New Oligomeric Quaternary Ammonium Salts with Aromatic Spacers. Molecules, 2017, 22, 1810.	1.7	25
16	Spectroscopic methods and theoretical studies of bromoacetic substituted derivatives of bile acids. Acta Chimica Slovenica, 2015, 62, 15-27.	0.2	4
17	Rare stoichiometry of carboxylâ€“carboxylate benzbetaine complexes: in vitro versus in silico. CrystEngComm, 2015, 17, 4143-4149.	1.3	2
18	Synthesis, Molecular Structure and Spectral Properties of New Aminosteroid Analogs of Squalamine Derivatives. Letters in Organic Chemistry, 2015, 12, 674-684.	0.2	0

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19	Synthesis, Spectroscopic and Theoretical Studies of New Dimeric Quaternary Alkylammonium Conjugates of Sterols. Molecules, 2014, 19, 9419-9434.	1.7	6
20	Synthesis, Spectroscopic and Theoretical Studies of New Quaternary N,N-Dimethyl-3-phthalimidopropylammonium Conjugates of Sterols and Bile Acids. Molecules, 2014, 19, 4212-4233.	1.7	9
21	Chalcogen analogues of nicotine lactam studied by NMR, FTIR, DFT and X-ray methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 773-780.	2.0	6
22	Synthesis, Spectroscopic and Theoretical Studies of New Quasi-Podands from Bile Acid Derivatives Linked by 1,2,3-Triazole Rings. Molecules, 2014, 19, 2557-2570.	1.7	19
23	Electrochemical characterization of the hydrophobic microenvironment within gemini surfactant micellar-hybridized supramolecular gels. Electrochimica Acta, 2013, 90, 326-331.	2.6	8
24	Structure of dimethylphenyl betaine hydrochloride studied by X-ray diffraction, DFT calculation, NMR and FTIR spectra. Journal of Molecular Structure, 2013, 1031, 49-55.	1.8	9
25	Synthesis, Spectroscopic and Semiempirical Studies of New Quaternary Alkylammonium Conjugates of Sterols. Molecules, 2013, 18, 14961-14976.	1.7	7
26	Unusual hydrogen-bonding aggregation in 4-amino-1-(2-carboxyethyl)pyridinium bromide hemihydrate. Journal of Molecular Structure, 2012, 1026, 150-158.	1.8	5
27	Structure of methyl 3-(trimethylammonium)benzoate iodide studied by X-ray diffraction, DFT calculations, NMR and FTIR spectra. Journal of Molecular Structure, 2012, 1017, 115-122.	1.8	6
28	Polyamines â€“ V: The structure of tetramethylene-1,4-bis(N-deoxyglucitolammonium chloride) studied by X-ray diffraction, DFT calculations, NMR and FTIR spectroscopy. Journal of Molecular Structure, 2012, 1020, 41-47.	1.8	3
29	Synthesis, Molecular Structure, Spectral Properties and Antifungal Activity of Polymethylene-Î±,Ï‰-bis(N,N- dimethyl-N-dodecyloammonium Bromides). Molecules, 2011, 16, 319-335.	1.7	47
30	Structure of 4-(trimethylammonium)benzoate hydrate studied by X-ray diffraction, DFT calculations, NMR and FTIR spectra. Journal of Molecular Structure, 2011, 1005, 144-151.	1.8	8
31	Structure of methyl 4-(trimethylammonium)benzoate iodide studied by X-ray diffraction, DFT calculations, NMR and FTIR spectra. Journal of Molecular Structure, 2011, 1006, 330-336.	1.8	6
32	Structure and spectroscopic properties of bis(1-carboxyethyl-3-aminopyridinium) hydrobromide monohydrate. Journal of Molecular Structure, 2011, 994, 13-20.	1.8	7
33	The structure of 4-(trimethylammonium)benzoic acid chloride studied by X-ray diffraction, DFT calculations, NMR and FTIR spectroscopy. Journal of Molecular Structure, 2011, 996, 75-81.	1.8	19
34	Polyamines. III. Spectroscopic properties of N,N-bis-(phthalimidopropyl)-N-octylamine and supramolecular interactions in its crystals. Journal of Molecular Structure, 2010, 967, 34-41.	1.8	4
35	Structure of 1H-2-oxo-2,3-dihydroimidazo[1,2-a]pyridinium perchlorate studied by X-ray diffraction, DFT calculations and by FTIR and NMR spectroscopy. Journal of Molecular Structure, 2010, 976, 119-128.	1.8	14
36	Structure of 3-aminopyridine betaine hydrochloride studied by X-ray diffraction, DFT calculations, FTIR and NMR spectroscopy. Journal of Molecular Structure, 2010, 979, 12-21.	1.8	8

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37	Spectroscopic studies, molecular structure and hydrogen bonding in hydrates of Gemini betaines. Journal of Molecular Structure, 2010, 973, 163-172.	1.8	12
38	Study of Cyclic Quaternary Ammonium Bromides by B3LYP Calculations, NMR and FTIR Spectroscopies. Molecules, 2010, 15, 5644-5657.	1.7	11
39	Study of N,N-dimethyl(carboethoxymethyl)-3-phthalimidopropylammonium chloride dihydrate by DFT calculations, NMR and FTIR spectroscopy. Journal of Molecular Structure, 2009, 928, 12-17.	1.8	3
40	Polyamines. Part II: Spectroscopic properties of N,N-dimethyl-3-phthalimidopropylammonium acetate and hydrochloride and supramolecular interactions in their crystals. Journal of Molecular Structure, 2008, 891, 205-213.	1.8	4
41	Spectroscopic properties of N-n-hexyltetrachlorophthalimide and supramolecular interactions in its crystals. Journal of Molecular Structure, 2008, 874, 145-150.	1.8	5
42	Prototropic equilibrium between 1-H-2-oxo-pyrido[2,1-b][3,4]dihydropyrimidinium chloride and 3-(2-aminopyridinium)propionate hydrochloride studied by X-ray, FTIR, Raman, NMR and ab initio methods. Journal of Molecular Structure, 2008, 875, 244-253.	1.8	5
43	Synthesis, Molecular Structure and Spectral Properties of Quaternary Ammonium Derivatives of 1,1-Dimethyl-1,3-propylenediamine. Molecules, 2008, 13, 379-390.	1.7	20
44	Spectroscopic properties of N-n-butyltetrachlorophthalimide and supramolecular interactions in its crystals. Journal of Molecular Structure, 2007, 833, 197-202.	1.8	13
45	Structure of 1-methyl-2-oxo-pyrido[2,1b][3,4]dihydropyrimidinium bromide studied by X-ray diffraction, FTIR and NMR spectroscopy and DFT calculations. Journal of Molecular Structure, 2007, 843, 107-115.	1.8	5
46	Polyamines. I. Spectroscopic properties of N,N-bis-(phthalimidopropyl)-N-propylamine and supramolecular interactions in its crystals. Journal of Molecular Structure, 2006, 791, 137-143.	1.8	24
47	Crystal and molecular structure of 3-(2-amino-pyridinium)-propionate monohydrate. Journal of Molecular Structure, 2006, 786, 25-32.	1.8	16
48	DFT studies of the structure, vibrational and NMR spectra of 2-amino-pyridine betaine monohydrate. Journal of Molecular Structure, 2005, 754, 85-95.	1.8	7
49	Crystal and molecular structure, hydrogen bonding and electrostatic interactions of bis(pyridine) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	18
50	Crystal and single molecule structures of N-(carbomethoxymethyl)-pyridinium perchlorate. Journal of Molecular Structure, 2003, 657, 125-136.	1.8	1
51	Comparison of low-barrier hydrogen bonds in acid salts of carboxylic acids and basic salts of betaines â€“ FTIR study. Journal of Molecular Structure, 1999, 484, 117-124.	1.8	13
52	Influence of Electrostatic Interactions on Complexes with Short OÂ·Â·Â·O Hydrogen Bonds in Basic Salts of Pyridine Betaines and Acid Salts of Ï‰-Phenyloalkanocarboxylic Acids. Israel Journal of Chemistry, 1999, 39, 253-260.	1.0	26
53	Structure, conformation and hydrogen bonding of some pyridiniumpropionate complexes. Journal of Molecular Structure, 1998, 448, 77-89.	1.8	7
54	Strong hydrogen bonds in 1:1 and 2:1 complexes of pyridine betaine with strong acids. Journal of Molecular Structure, 1994, 322, 297-308.	1.8	48