

Bogumil Brycki

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5105265/bogumil-brycki-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

1,094
citations

22
h-index

30
g-index

62
ext. papers

1,211
ext. citations

5.1
avg. IF

4.4
L-index

#	Paper	IF	Citations
60	The biodegradation of monomeric and dimeric alkylammonium surfactants. <i>Journal of Hazardous Materials</i> , 2014 , 280, 797-815	12.8	64
59	Hydrophilicity and flexibility of the spacer as critical parameters on the aggregation behavior of long alkyl chain cationic gemini surfactants in aqueous solution. <i>Journal of Molecular Liquids</i> , 2017 , 230, 453-460	6	61
58	Effectiveness of O-bridged cationic gemini surfactants as corrosion inhibitors for stainless steel in 3 M HCl: Experimental and theoretical studies. <i>Journal of Molecular Liquids</i> , 2018 , 249, 1113-1124	6	58
57	The mechanisms of nucleophilic substitution in aliphatic compounds. <i>Chemical Society Reviews</i> , 1990 , 19, 83	58.5	56
56	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		43
55	Efficiency of cationic gemini surfactants with 3-azamethylpentamethylene spacer as corrosion inhibitors for stainless steel in hydrochloric acid. <i>Journal of Molecular Liquids</i> , 2017 , 247, 6-13	6	42
54	Cationic gemini surfactants containing an O-substituted spacer and hydroxyethyl moiety in the polar heads: Self-assembly, biodegradability and aquatic toxicity. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 59, 141-148	6.3	42
53	Proton potential as a function of the pKa of phenol in intermolecular phenol-trimethylamine N-oxide hydrogen bonds. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 8598-8600		42
52	Synthesis, molecular structure, spectral properties and antifungal activity of polymethylene-bis(N,N- dimethyl-N-dodecyloammonium bromides). <i>Molecules</i> , 2011 , 16, 319-35	4.8	40
51	Synthesis and antimicrobial activities of new quats. <i>European Journal of Medicinal Chemistry</i> , 1997 , 32, 661-668	6.8	30
50	Electrospun polyacrylonitrile nanofibers modified by quaternary ammonium salts. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 767-775	2.9	29
49	Influence of different counterions on gemini surfactants with polyamine platform as corrosion inhibitors for stainless steel AISI 304 in 3 M HCl. <i>Journal of Molecular Liquids</i> , 2018 , 268, 824-831	6	27
48	HFI and DFT study of the bonding in complexes of halogen and interhalogen diatomics with Lewis base. <i>Computational and Theoretical Chemistry</i> , 2006 , 760, 175-182		27
47	¹ H AND ¹³ C NMR Studies of Tetrabutylammonium Salts of Gossypol in Chloroform Solution. <i>Spectroscopy Letters</i> , 1991 , 24, 509-518	1.1	26
46	Kinetics and mechanism of nucleophilic displacements with heterocyclics as leaving groups. Part 24. Rates and mechanism for the solvolysis of N-tert-alkylpyridinium cations in a variety of solvents. <i>Journal of the American Chemical Society</i> , 1986 , 108, 7295-7299	16.4	26
45	Functionalised novel gemini surfactants as corrosion inhibitors for mild steel in 50 mM NaCl: Experimental and theoretical insights. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 580, 123699	5.1	24
44	Gemini alkyldeoxy-D-glucitolammonium salts as modern surfactants and microbiocides: synthesis, antimicrobial and surface activity, biodegradation. <i>PLoS ONE</i> , 2014 , 9, e84936	3.7	23

43	¹ H and ¹³ C NMR studies of the proton transfer in complexes of substituted phenols with trimethylamine N-oxide. <i>Magnetic Resonance in Chemistry</i> , 1992 , 30, 507-510	2.1	23
42	C-alkylation of β -diketones with benzylpyridinium salts. Evidence for chain radical mechanisms. <i>Tetrahedron</i> , 1990 , 46, 5333-5346	2.4	23
41	Polyamines. I. Spectroscopic properties of N,N-bis-(phthalimidopropyl)-N-propylamine and supramolecular interactions in its crystals. <i>Journal of Molecular Structure</i> , 2006 , 791, 137-143	3.4	22
40	FTIR and ¹³ C NMR studies of hydrogen bonds and proton transfer in complexes of N-dodecyl-N,N-dimethylamine oxide with 26 phenols, carboxylic and mineral acids in solution.. <i>Journal of Molecular Liquids</i> , 1994 , 59, 83-101	6	22
39	¹ H and ¹³ C NMR studies of 1,8-bis(dimethylamino)naphthalene salts in acetonitrile-d ₃ . <i>Magnetic Resonance in Chemistry</i> , 1991 , 29, 558-560	2.1	22
38	I.r. spectroscopy and ¹ H n.m.r. broad line studies of poly(p-phenylene sulphide) doped with sulphur trioxide. <i>Polymer</i> , 1992 , 33, 248-253	3.9	21
37	Nucleophilic substitution at saturated carbon atoms. Mechanisms and mechanistic borderlines: Evidence from studies with neutral leaving groups. <i>Journal of Physical Organic Chemistry</i> , 1988 , 1, 1-20	2.1	20
36	Effect of pH on carbon-13 NMR spectra of N-dodecyl-N, N-dimethylamine oxide solution. <i>Magnetic Resonance in Chemistry</i> , 1992 , 30, 535-543	2.1	17
35	Quaternary ammonium biocides as antimicrobial agents protecting historical wood and brick. <i>Acta Biochimica Polonica</i> , 2016 , 63, 153-159	2	17
34	Preparation and NMR characterisation of hydrogen bonding in 2- and 2,6-bis-(N,N-diethylaminomethyl) - 4R-phenols. <i>Journal of Molecular Structure</i> , 1991 , 246, 61-71	3.4	16
33	Biodegradability and aquatic toxicity of new cleavable betainate cationic oligomeric surfactants. <i>Journal of Hazardous Materials</i> , 2019 , 371, 108-114	12.8	15
32	Synthesis, spectroscopic and theoretical studies of new quasi-podands from bile acid derivatives linked by 1,2,3-triazole rings. <i>Molecules</i> , 2014 , 19, 2557-70	4.8	15
31	Synthesis, spectroscopic studies, aggregation and surface behavior of hexamethylene-1,6-bis(N,N-dimethyl-N-dodecylammonium bromide). <i>Journal of Molecular Liquids</i> , 2016 , 221, 1086-1096	6	14
30	Heteroatoms and π -electrons as favorable factors for efficient corrosion protection. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019 , 70, 1099-1110	1.6	13
29	IR and PMR studies of proton transfer in complexes of 4-R-pyridine N-oxides with trifluoroacetic acid in solutions. <i>Advances in Molecular Relaxation and Interaction Processes</i> , 1979 , 15, 71-79		13
28	New filtering antimicrobial nonwovens with various carriers for biocides as respiratory protective materials against bioaerosol. <i>International Journal of Occupational Safety and Ergonomics</i> , 2012 , 18, 375-85	2.1	12
27	Spectroscopic properties of N-n-butyltetrachlorophthalimide and supramolecular interactions in its crystals. <i>Journal of Molecular Structure</i> , 2007 , 833, 197-202	3.4	12
26	Effect of the alkyl chain length on micelle formation for bis(N-alkyl-N,N-dimethylethylammonium)ether dibromides. <i>Comptes Rendus Chimie</i> , 2019 , 22, 386-392	2.7	11

25	Study of cyclic quaternary ammonium bromides by B3LYP calculations, NMR and FTIR spectroscopies. <i>Molecules</i> , 2010 , 15, 5644-57	4.8	10
24	Synthesis, spectroscopic and theoretical studies of new quaternary N,N-dimethyl-3-phthalimidopropylammonium conjugates of sterols and bile acids. <i>Molecules</i> , 2014 , 19, 4212-33	4.8	8
23	Quaternary Alkylammonium Conjugates of Steroids: Synthesis, Molecular Structure, and Biological Studies. <i>Molecules</i> , 2015 , 20, 20887-900	4.8	7
22	Synthesis, spectroscopic and semiempirical studies of new quaternary alkylammonium conjugates of sterols. <i>Molecules</i> , 2013 , 18, 14961-76	4.8	7
21	Quaternary Alkylammonium Salts as Cleaning and Disinfectant Agents. <i>Tenside, Surfactants, Detergents</i> , 2018 , 55, 432-438	1	7
20	Synthesis and spectroscopic studies of new quasi podands from bile acid derivatives. <i>Tetrahedron Letters</i> , 2013 , 54, 4700-4704	2	6
19	Electrochemical characterization of the hydrophobic microenvironment within gemini surfactant micellar-hybridized supramolecular gels. <i>Electrochimica Acta</i> , 2013 , 90, 326-331	6.7	6
18	Solid state ^1H NMR study of molecular dynamics and domain sizes in PBT with the fullerene derivatives: Decylamine- C_{60} and tetracyanoethylene oxide- C_{60} . <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1164-1171	3.9	6
17	Infrared and ^1H nuclear magnetic resonance studies of solvent effect on hydrogen bond in some pyridine n-oxide trifluoroacetates. <i>Journal of Molecular Liquids</i> , 1984 , 29, 135-145	6	6
16	Synthesis, spectroscopic and theoretical studies of new dimeric quaternary alkylammonium conjugates of sterols. <i>Molecules</i> , 2014 , 19, 9419-34	4.8	5
15	Synthesis, FTIR, ^{13}C -NMR and temperature-dependent ^1H -NMR characteristics of bis-naphthalimide derivatives. <i>Molecules</i> , 2012 , 17, 12427-48	4.8	5
14	Spectroscopic properties of N-n-hexyltetrachlorophthalimide and supramolecular interactions in its crystals. <i>Journal of Molecular Structure</i> , 2008 , 874, 145-150	3.4	5
13	Crystal and molecular structure of cytosine trichloroacetate. <i>Journal of Molecular Structure</i> , 1989 , 195, 57-64	3.4	5
12	Formation of the homoconjugated cation $(\text{N}^+\text{O}^-\text{H}^+\text{O}^-\text{N})^+$ of N-dodecyl-N,N-dimethylamine oxide in carbon tetrachloride. <i>Journal of Molecular Structure</i> , 1990 , 239, 1-11	3.4	5
11	Design, synthesis and application of new bile acid ligands with 1,2,3-triazole ring. <i>Supramolecular Chemistry</i> , 2017 , 29, 81-93	1.8	4
10	Multistep approach to control microbial fouling of historic building materials by aerial phototrophs. <i>Biofouling</i> , 2019 , 35, 284-298	3.3	4
9	Cellulose products modified with monomeric and gemini surfactants: antimicrobial aspects. <i>Cellulose</i> , 2019 , 26, 5559-5570	5.5	4
8	Investigation of molecular reorientation in poly(butylene terephthalate)/decylamine/fullerene nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 647-651	3.9	4

7	Synthesis and antimicrobial activity of new 1-benzylbenzimidazolium chlorides. <i>Archiv Der Pharmazie</i> , 1997 , 330, 253-8	4-3	4
6	Polyamines. Part II: Spectroscopic properties of N,N-dimethyl-3-phthalimidopropylammonium acetate and hydrochloride and supramolecular interactions in their crystals. <i>Journal of Molecular Structure</i> , 2008 , 891, 205-213	3-4	4
5	Spectroscopic methods and theoretical studies of bromoacetyl substituted derivatives of bile acids. <i>Acta Chimica Slovenica</i> , 2015 , 62, 15-27	1-9	3
4	Synthesis and antimicrobial activity of new quaternary ammonium chlorides. <i>Archiv Der Pharmazie</i> , 1996 , 329, 279-82	4-3	3
3	Kinetics and mechanism of nucleophilic displacements with heterocycles as leaving groups. Part 23. Studies at the borderlines between reactions proceeding (i) via free carbocations, (ii) via rate-determining formation of ion-molecule pairs, and (iii) via rate-determining nucleophilic attack on ion-molecule pairs. <i>Canadian Journal of Chemistry</i> , 1986 , 64, 1161-1169	0-9	3
2	MICROSTRUCTURE AND PERFORMANCES OF PVA DISPERSED LIQUID CRYSTALS CONTAINING GEMINI SURFACTANT. <i>Acta Polymerica Sinica</i> , 2012 , 012, 628-632		3
1	Kinetics and mechanism of acid hydrolysis of 2-carboethoxypyridine N-oxides. <i>Journal of Physical Organic Chemistry</i> , 1990 , 3, 489-492	2-1	1