

Bogumil Brycki

List of Publications by Year in Descending Order

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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	Heteroatoms and Electrons as favorable factors for efficient corrosion protection. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019 , 70, 1099-1110	1.6	13
59	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
58	Multistep approach to control microbial fouling of historic building materials by aerial phototrophs. <i>Biofouling</i> , 2019 , 35, 284-298	3.3	4
57	Biodegradability and aquatic toxicity of new cleavable betainate cationic oligomeric surfactants. <i>Journal of Hazardous Materials</i> , 2019 , 371, 108-114	12.8	15
56	Cellulose products modified with monomeric and gemini surfactants: antimicrobial aspects. <i>Cellulose</i> , 2019 , 26, 5559-5570	5.5	4
55	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
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	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
52	Quaternary Alkylammonium Salts as Cleaning and Disinfectant Agents. <i>Tenside, Surfactants, Detergents</i> , 2018 , 55, 432-438	1	7
51	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
50	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
49	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
48	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
47	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
46	Quaternary ammonium biocides as antimicrobial agents protecting historical wood and brick. <i>Acta Biochimica Polonica</i> , 2016 , 63, 153-159	2	17
45	Spectroscopic methods and theoretical studies of bromoacetyl substituted derivatives of bile acids. <i>Acta Chimica Slovenica</i> , 2015 , 62, 15-27	1.9	3
44	Quaternary Alkylammonium Conjugates of Steroids: Synthesis, Molecular Structure, and Biological Studies. <i>Molecules</i> , 2015 , 20, 20887-900	4.8	7

43	The biodegradation of monomeric and dimeric alkylammonium surfactants. <i>Journal of Hazardous Materials</i> , 2014 , 280, 797-815	12.8	64
42	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
41	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
40	Synthesis, spectroscopic and theoretical studies of new dimeric quaternary alkylammonium conjugates of sterols. <i>Molecules</i> , 2014 , 19, 9419-34	4.8	5
39	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
38	Electrospun polyacrylonitrile nanofibers modified by quaternary ammonium salts. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 767-775	2.9	29
37	Synthesis and spectroscopic studies of new quasi podands from bile acid derivatives. <i>Tetrahedron Letters</i> , 2013 , 54, 4700-4704	2	6
36	Electrochemical characterization of the hydrophobic microenvironment within gemini surfactant micellar-hybridized supramolecular gels. <i>Electrochimica Acta</i> , 2013 , 90, 326-331	6.7	6
35	Synthesis, spectroscopic and semiempirical studies of new quaternary alkylammonium conjugates of sterols. <i>Molecules</i> , 2013 , 18, 14961-76	4.8	7
34	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
33	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, 375-385	2.1	12
32	MICROSTRUCTURE AND PERFORMANCES OF PVA DISPERSED LIQUID CRYSTALS CONTAINING GEMINI SURFACTANT. <i>Acta Polymerica Sinica</i> , 2012 , 012, 628-632		3
31	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
30	Synthesis, molecular structure, spectral properties and antifungal activity of polymethylene- π -bis(N,N- dimethyl-N-dodecyloammonium bromides). <i>Molecules</i> , 2011 , 16, 319-35	4.8	40
29	Study of cyclic quaternary ammonium bromides by B3LYP calculations, NMR and FTIR spectroscopies. <i>Molecules</i> , 2010 , 15, 5644-57	4.8	10
28	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
27	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
26	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

25	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
24	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
23	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
22	Synthesis and antimicrobial activities of new quats. <i>European Journal of Medicinal Chemistry</i> , 1997 , 32, 661-668	6.8	30
21	Synthesis and antimicrobial activity of new 1-benzylbenzimidazolium chlorides. <i>Archiv Der Pharmazie</i> , 1997 , 330, 253-8	4-3	4
20	Synthesis and antimicrobial activity of new quaternary ammonium chlorides. <i>Archiv Der Pharmazie</i> , 1996 , 329, 279-82	4-3	3
19	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
18	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
17	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
16	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
15	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
14	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
13	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
12	Proton potential as a function of the pK _a of phenol in intermolecular phenol-trimethylamine N-oxide hydrogen bonds. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 8598-8600		42
11	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 pK _a . <i>The Journal of Physical Chemistry</i> , 1990 , 94, 1279-1285		43
10	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
9	C-alkylation of β -diketones with benzylpyridinium salts. Evidence for chain radical mechanisms. <i>Tetrahedron</i> , 1990 , 46, 5333-5346	2-4	23
8	Formation of the homoconjugated cation (N ⁺ O ⁻ H ⁺ O ⁻ N ⁺) ⁺ of N-dodecyl-N,N-dimethylamine oxide in carbon tetrachloride. <i>Journal of Molecular Structure</i> , 1990 , 239, 1-11	3-4	5

7	The mechanisms of nucleophilic substitution in aliphatic compounds. <i>Chemical Society Reviews</i> , 1990 , 19, 83	58.5	56
6	Crystal and molecular structure of cytosine trichloroacetate. <i>Journal of Molecular Structure</i> , 1989 , 195, 57-64	3.4	5
5	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
4	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
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	Infrared and ¹ H 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
1	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