

Aleksander Filarowski

List of Publications by Year in descending order

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2072
citing authors

#	ARTICLE	IF	CITATIONS
1	1,7-Disubstituted Boron Dipyrromethene (BODIPY) Dyes: Synthesis and Spectroscopic Properties. <i>Journal of Organic Chemistry</i> , 2011, 76, 8168-8176.	3.2	116
2	Intramolecular hydrogen bonding in <i>o</i> -hydroxyaryl Schiff bases. <i>Journal of Physical Organic Chemistry</i> , 2005, 18, 686-698.	1.9	112
3	Strengthening of the intramolecular O-H...N hydrogen bonds in Schiff bases as a result of steric repulsion. <i>Journal of Molecular Structure</i> , 1999, 484, 75-89.	3.6	106
4	Generalized solvent scales as a tool for investigating solvent dependence of spectroscopic and kinetic parameters. Application to fluorescent BODIPY dyes. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 996-1008.	2.9	100
5	Low barrier hydrogen bonds in sterically modified Schiff bases. <i>Perkin Transactions II RSC</i> , 2002, , 835-842.	1.1	86
6	NMR study of proton transfer equilibrium in Schiff bases derived from 2-hydroxy-1-naphthaldehyde and 1-hydroxy-2-acetonaphthone. Deuterium isotope effects on ¹³ C and ¹⁵ N chemical shifts. <i>Magnetic Resonance in Chemistry</i> , 2001, 39, S67-S80.	1.9	68
7	Proton Transfer Equilibria in Schiff Bases with Steric Repulsion. <i>Journal of Physical Chemistry A</i> , 2004, 108, 2131-2138.	2.5	66
8	Proton transfer reaction in <i>N</i> -methyl- <i>o</i> -hydroxy Schiff bases. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1998, 102, 393-402.	0.9	63
9	Rational Design, Synthesis, and Spectroscopic and Photophysical Properties of a Visible-Light-Excitable, Ratiometric, Fluorescent Near-Neutral pH Indicator Based on BODIPY. <i>Chemistry - A European Journal</i> , 2011, 17, 10924-10934.	3.3	62
10	Structural and aromatic aspects of tautomeric equilibrium in hydroxy aryl Schiff bases. <i>Journal of Physical Organic Chemistry</i> , 2008, 21, 939-944.	1.9	59
11	Intramolecular Hydrogen Bonding in <i>o</i> -hydroxy Aryl Schiff Bases. <i>Current Organic Chemistry</i> , 2009, 13, 172-193.	1.6	58
12	Specificity of the intramolecular hydrogen bond. The differences in spectroscopic characteristics of the intermolecular and intramolecular H-bonds. <i>Vibrational Spectroscopy</i> , 1998, 17, 123-131.	2.2	57
13	Proton transfer and self-association of sterically modified Schiff bases. <i>Chemical Physics</i> , 2003, 287, 113-124.	1.9	56
14	AIM Analysis of Intramolecular Hydrogen Bonding in <i>o</i> -Hydroxy Aryl Schiff Bases. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3119-3126.	2.5	55
15	H/D Isotope Effects in Hydrogen Bonded Systems. <i>Molecules</i> , 2013, 18, 4467-4476.	3.8	54
16	Intramolecular hydrogen bond in molecular and proton-transfer forms of Schiff bases. <i>Chemical Physics</i> , 2004, 297, 323-332.	1.9	50
17	Tautomerism of Sterically Hindered Schiff Bases. Deuterium Isotope Effects on ¹³ C Chemical Shifts. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4464-4473.	2.5	47
18	Proton transfer equilibrium in the intramolecular hydrogen bridge in sterically hindered Schiff bases. <i>Journal of Molecular Structure</i> , 2002, 615, 97-108.	3.6	46

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19	Proton transfer reaction of a new orthohydroxy Schiff base in protic solvents at room temperature. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2000, 56, 2669-2677.	3.9	44
20	Excited state intermolecular proton transfer and caging of salicylidine-3,4,7-methyl amine in cyclodextrins. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 175, 94-99.	3.9	40
21	Structure and hydrogen bonding in ortho-hydroxy Ketimines. <i>Journal of Molecular Structure</i> , 2003, 644, 187-195.	3.6	37
22	Solvatochromism of BODIPY-Schiff Dye. <i>Journal of Physical Chemistry B</i> , 2015, 119, 2576-2584.	2.6	37
23	Steric and aromatic impact on intramolecular hydrogen bonds in ortho-hydroxyaryl ketones and ketimines. <i>Journal of Physical Organic Chemistry</i> , 2005, 18, 986-993.	1.9	36
24	2-(\pm -Hydroxyalkyl)- and 2,7-Di(\pm -hydroxyalkyl)-1,8-bis(dimethylamino)naphthalenes: A Stabilization of Nonconventional In/Out Conformers of π -Proton Sponges via N \cdots H \cdots O Intramolecular Hydrogen Bonding. A Remarkable Kind of Tandem Nitrogen Inversion. <i>Journal of Organic Chemistry</i> , 2007, 72, 3006-3019.	3.2	35
25	Integrated intensity of OH absorption bands in bent hydrogen bonds in ortho-dialkylaminomethyl phenols. <i>Vibrational Spectroscopy</i> , 1996, 12, 15-24.	2.2	33
26	Some Brief Notes on Theoretical and Experimental Investigations of Intramolecular Hydrogen Bonding. <i>Molecules</i> , 2016, 21, 1657.	3.8	33
27	The intramolecular hydrogen bond in ortho-hydroxy acetophenones. <i>Journal of Molecular Structure</i> , 2004, 700, 67-72.	3.6	30
28	Peculiarities of quasi-aromatic hydrogen bonding. <i>RSC Advances</i> , 2012, 2, 8135.	3.6	30
29	The electrooptical parameters of aniline and its halogeno derivatives in hydrogen bonded complexes. <i>Journal of Molecular Structure</i> , 1989, 196, 353-370.	3.6	29
30	The photoinduced isomerization and its implication in the photo-dynamical processes in two simple Schiff bases isolated in solid argon. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16596.	2.8	29
31	Density Functional Theory Study of Intramolecular Hydrogen Bonding and Proton Transfer in α -Hydroxyaryl Ketimines. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3478-3485.	2.5	28
32	Synthesis, structural, spectroscopic, computational and cytotoxic studies of BODIPY dyes. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 548-555.	7.8	24
33	ATR-IR spectroscopic study of the structural changes in the hydrophobic region of ICPAN/DPPC bilayers. <i>Journal of Molecular Structure</i> , 2008, 878, 162-168.	3.6	23
34	Sterische Modifikation der intramolekularen Wasserstoffbrückenbindung in 2-(Methylimino-phenyl-methyl)-phenolen. <i>Monatshefte für Chemie</i> , 1999, 130, 1097.	1.8	23
35	Theoretical investigation of tautomeric equilibrium in ortho-hydroxy phenyl Schiff bases. <i>Chemical Physics Letters</i> , 2008, 463, 426-430.	2.6	22
36	2,7-Disubstituted proton sponges as borderline systems for investigating barrier-free intramolecular hydrogen bonds. Protonated 2,7-bis(trimethylsilyl)- and 2,7-di(hydroxymethyl)-1,8-bis(dimethylamino)naphthalenes. <i>Tetrahedron</i> , 2008, 64, 6209-6214.	1.9	22

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37	Characterisation of the PT-form of o-hydroxy acylaromatic Schiff bases by NMR spectroscopy and DFT calculations. <i>Journal of Molecular Structure</i> , 2004, 707, 69-75.	3.6	21
38	Calculations of BODIPY dyes in the ground and excited states using the M06-2X and PBE0 functionals. <i>Journal of Molecular Modeling</i> , 2016, 22, 260.	1.8	21
39	Excited state intramolecular proton transfer in a new o-hydroxy Schiff base in non polar solvents at room temperature and 77 K. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1999, 55, 2861-2868.	3.9	20
40	2- β -Hydroxybenzhydryl- and 2,7-di(β -hydroxybenzhydryl)-1,8-bis(dimethylamino)naphthalenes: the first examples of stabilization of in/out proton sponge conformers by intramolecular hydrogen bonding. The most flattened amino group ever participating in IHB. <i>Tetrahedron Letters</i> , 2005, 46, 3973-3976.	1.4	20
41	Ground and excited state proton transfer reaction of two new o-hydroxy Schiff bases in some protic solvents at room temperature and 77 K. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 153, 67-76.	3.9	19
42	The influence of steric and polar effects on hydrogen bonding in 2-(N,N-diethylamino)-methyl-4-NO ₂ -phenols. <i>Journal of Chemical Crystallography</i> , 1997, 27, 707-719.	1.1	17
43	Anomalous strengthening of the intramolecular hydrogen bond by steric repulsion. <i>Journal of Molecular Structure</i> , 1997, 404, 67-74.	3.6	17
44	Factor Analysis of Deuterium Isotope Effects on ¹³ C NMR Chemical Shifts in Schiff Bases. <i>Chemistry - A European Journal</i> , 2005, 11, 4758-4766.	3.3	17
45	The intramolecular hydrogen bond in 2-hydroxy-benzamides. <i>Journal of Molecular Structure</i> , 2006, 790, 65-73.	3.6	17
46	Vibrational Spectra of o-hydroxyphenyl Schiff Bases and Related Compounds. <i>Current Organic Chemistry</i> , 2009, 13, 287-298.	1.6	17
47	Conformational state of β -hydroxynaphthylamides: Barriers for the rotation of the amide group around CN bond and dynamics of the morpholine ring. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 149, 254-262.	3.9	15
48	Out-Basicity of 1,8-bis(dimethylamino)naphthalene: the experimental and theoretical challenge. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2360.	2.8	14
49	Structural and spectroscopic features of proton hydrates in the crystalline state. Solid-state DFT study on HCl and triflic acid hydrates. <i>Molecular Physics</i> , 2018, 116, 251-262.	1.7	14
50	Intramolecular Hydrogen Bonds in Selected Aromatic Compounds: Recent Developments. <i>Catalysts</i> , 2019, 9, 909.	3.5	14
51	H/D Isotope Effects on ¹ H-NMR Chemical Shifts in Cyclic Heterodimers and Heterotrimers of Phosphinic and Phosphoric Acids. <i>Molecules</i> , 2020, 25, 1907.	3.8	14
52	Combination of π - π Butressing and π - π Clothespin Effects for Reaching the Shortest NHN Hydrogen Bond in Proton Sponge Cations. <i>Journal of Organic Chemistry</i> , 2021, 86, 3637-3647.	3.2	14
53	Intra- versus intermolecular hydrogen bonding equilibrium in 2-hydroxy-N,N-diethylbenzamide. <i>Journal of Physical Organic Chemistry</i> , 2009, 22, 130-137.	1.9	13
54	CNNC conformational isomers of 2-hydroxyacetophenone azine: FTIR matrix isolation and DFT study. <i>Journal of Molecular Structure</i> , 2010, 976, 371-376.	3.6	13

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55	Ring lithiation of 1,8-bis(dimethylamino)naphthalene: another side of the π -proton sponge coin π ™. Dalton Transactions, 2015, 44, 17756-17766.	3.3	13
56	Inter- vs. Intramolecular Hydrogen Bond Patterns and Proton Dynamics in Nitrophthalic Acid Associates. Molecules, 2020, 25, 4720.	3.8	13
57	Solvent Influence on the Transformation of Intramolecular Hydrogen Bonds in 2-Hydroxy-5-Methyl-3-Nitroacetophenone. Journal of Solution Chemistry, 2005, 34, 929-945.	1.2	12
58	Inelastic neutron scattering and vibrational spectra of 2-(N-methyl- λ -iminoethyl)-phenol and 2-(N-methyliminoethyl)-phenol: Experimental and theoretical approach. Journal of Molecular Structure, 2008, 880, 97-108.	3.6	12
59	How Strong is Hydrogen Bonding to Amide Nitrogen?. ChemPhysChem, 2020, 21, 651-658.	2.1	12
60	Excited state proton transfer reaction of two new intramolecularly hydrogen bonded Schiff bases at room temperature and 77K. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 197-207.	3.9	11
61	Proton transfer reaction of a new orthohydroxy Schiff base in some protic and aprotic solvents at room temperature and 77K. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 62, 126-131.	3.9	11
62	Phase transition and intramolecular hydrogen bonding in nitro derivatives of ortho-hydroxy acetophenones. Journal of Molecular Structure, 2006, 785, 7-13.	3.6	11
63	Matrix-isolation FT-IR and theoretical investigation of the vibrational properties of the sterically hindered ortho-hydroxy acylaromatic Schiff bases. Journal of Molecular Structure, 2007, 844-845, 83-93.	3.6	11
64	Matrix-isolation FT-IR and theoretical investigation of the competitive intramolecular hydrogen bonding in 5-methyl-3-nitro-2-hydroxyacetophenone. Journal of Molecular Structure, 2008, 880, 86-96.	3.6	11
65	Triple hydrogen bonding in a circular arrangement: ab initio, DFT and first-principles MD studies of tris-hydroxyaryl enamines. Journal of Computer-Aided Molecular Design, 2012, 26, 1045-1053.	2.9	11
66	Comparison of Proton Acceptor and Proton Donor Properties of H ₂ O and H ₂ O ₂ in Organic Crystals of Drug-like Compounds: Peroxosolvates vs. Crystallohydrates. Molecules, 2022, 27, 717.	3.8	11
67	Strengthening of the intramolecular hydrogen bond in 7-ethylsalicylidene aniline due to steric repulsion. Computational and Theoretical Chemistry, 2002, 577, 153-159.	1.5	10
68	Interaction between methyl glyoxal and ascorbic acid: experimental and theoretical aspects. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 1523-1526.	3.9	10
69	The role of ring substituents on hydrogen bonding of 5-cyano-2-hydroxyacetophenone and 2-hydroxy-4-methoxy-5-nitroacetophenone in the ground and excited states. Journal of Molecular Structure, 2007, 844-845, 77-82.	3.6	10
70	A molecular roundabout: triple cyclically arranged hydrogen bonds in light of experiment and theory. New Journal of Chemistry, 2018, 42, 19467-19477.	2.8	10
71	Impact of the Keto \rightleftharpoons Enol Tautomeric Equilibrium on the BODIPY Chromophore. Journal of Physical Chemistry A, 2018, 122, 5955-5961.	2.5	10
72	Proton transfer reaction of a new orthohydroxy Schiff base at room temperature and 77 K. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2004, 60, 805-813.	3.9	8

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73	Reaction of 2-trifluoroacetyl-1,8-Bis(dimethylamino)naphthalene with strong organic bases: Deprotonation of 1-NMe ₂ group resulting in the formation of Benzo[g]indole derivatives versus nucleophilic addition to C=O group. <i>Tetrahedron</i> , 2017, 73, 3452-3457.	1.9	8
74	Symmetry/Asymmetry of the NHN Hydrogen Bond in Protonated 1,8-Bis(dimethylamino)naphthalene. <i>Symmetry</i> , 2020, 12, 1924.	2.2	8
75	Modeling Biologically Important NH...N Interactions Using <i>peri</i> -Disubstituted Naphthalenes. <i>Journal of Organic Chemistry</i> , 2020, 85, 12468-12481.	3.2	8
76	Steric Modification of the Intramolecular Hydrogen Bond in 2-(Methylimino-phenyl-methyl)-phenols. <i>Monatshefte für Chemie</i> , 1999, 130, 1097-1108.	1.8	7
77	Molecular Properties Investigation of a Substituted Aromatic Mannich Base: Dynamic and Static Models. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 818-831.	5.4	7
78	The conformational analysis of 2-hydroxyaryl Schiff thiosemicarbazones. <i>CrystEngComm</i> , 2010, 12, 1955.	2.6	7
79	Base-promoted transformation of 2-C(O)R-1,8-bis(dimethylamino)naphthalenes into benzo[g]indole derivatives. <i>Mendeleev Communications</i> , 2015, 25, 182-184.	1.6	7
80	Tautomeric design of ortho-hydroxyheterocyclic Schiff bases. <i>Journal of Molecular Structure</i> , 2015, 1080, 52-56.	3.6	7
81	Arylene-Ethyne Oligomers Based on the Proton Sponge. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 7128-7141.	2.4	7
82	Neutral Pyrrole Nitrogen Atom as a π - and Mixed n, π -Donor in Hydrogen Bonding. <i>Journal of Organic Chemistry</i> , 2019, 84, 726-737.	3.2	7
83	Spectroscopic Identification of Hydrogen Bond Vibrations and Quasi-Isostructural Polymorphism in N-Salicylideneaniline. <i>Molecules</i> , 2021, 26, 5043.	3.8	7
84	Ground and excited state proton transfer reaction of salicylidine-3,4,7-methyl amine in micelles. <i>Chemical Physics Letters</i> , 2006, 420, 316-320.	2.6	6
85	Electron-topological, energetic and π -electron delocalization analysis of ketoenamine-enolimine tautomeric equilibrium. <i>Journal of Molecular Modeling</i> , 2012, 18, 257-263.	1.8	5
86	Impact of proton transfer phenomena on the electronic structure of model Schiff bases: An AIM/NBO/ELF study. <i>Journal of Chemical Physics</i> , 2013, 139, 154312.	3.0	5
87	Extreme Magnetic Separation of Geminal Protons in Protonated N,N,N ⁺ -Trimethyl-1,8-diaminonaphthalene. A Puzzle of the Fourth Methyl Group. <i>Organic Letters</i> , 2013, 15, 2194-2197.	4.6	5
88	Comparison of Resonance Assisted and Charge Assisted Effects in Strengthening of Hydrogen Bonds in Dipyrins. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 86-95.	5.4	5
89	Structure and properties of a new rigid tripodal oxime ligand. <i>Journal of Molecular Structure</i> , 2017, 1136, 100-106.	3.6	5
90	1,8-Bis(dimethylamino)naphthyl-2-ketimines: Inside vs outside protonation. <i>Beilstein Journal of Organic Chemistry</i> , 2018, 14, 2940-2948.	2.2	5

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91	Nucleophilic Substitution of Hydrogen Atom in Initially Inactivated Pyrrole Ring. <i>Organic Letters</i> , 2019, 21, 1953-1957.	4.6	5
92	Polymorphism and Conformational Equilibrium of Nitro-Acetophenone in Solid State and under Matrix Conditions. <i>Molecules</i> , 2021, 26, 3109.	3.8	5
93	Investigation of Structural-Phase States and Features of Plastic Deformation of the Austenitic Precipitation-Hardening Co-Ni-Nb Alloy. <i>Metals</i> , 2018, 8, 19.	2.3	4
94	Magnetic Properties of Nickel-Titanium Alloy during Martensitic Transformations under Plastic and Elastic Deformation. <i>Symmetry</i> , 2021, 13, 665.	2.2	4
95	Secondary Isotope Effects on ¹³ C and ¹⁵ N Chemical Shifts of Schiff Bases Revisited. <i>Zeitschrift Fur Physikalische Chemie</i> , 2013, 227, 917-927.	2.8	3
96	Photochromic cycle of 2-hydroxyacetophenone azine studied by absorption and emission spectroscopy in different solvents. <i>Journal of Chemical Physics</i> , 2013, 139, 104305.	3.0	1
97	Why Does the 2,2'-Bipyridine-4-methyl-3,3'-Dicarboxylic Acid Not Form MOFs: Synthesis, Crystal Structure and Properties of a New Organic Ligand. <i>Journal of Chemical Crystallography</i> , 2015, 45, 363-368.	1.1	1
98	Intramolecular Hydrogen Bonding in O-Hydroxyaryl Schiff Bases. <i>ChemInform</i> , 2005, 36, no.	0.0	0
99	The increasing price of dyes and pigments-short and long term issues. <i>Biotechnic and Histochemistry</i> , 2014, 89, 398-399.	1.3	0
100	Investigation of the structural-phase state under superplastic deformation of the Co-Ni-Nb alloy. <i>Phase Transitions</i> , 2019, 92, 1110-1117.	1.3	0