Borys Osmialowski

List of Publications by Citations

102 papers	1,674 citations	21 h-index	37 g-index
115 ext. papers	1,846 ext. citations	3.8 avg, IF	4.62 L-index

#	Paper	IF	Citations
102	Tautomeric equilibria in relation to pi-electron delocalization. *Chemical Reviews*, **2005**, 105, 3561-612	68.1	260
101	GIAO/DFT calculated chemical shifts of tautomeric species. 2-Phenacylpyridines and (Z)-2-(2-hydroxy-2-phenylvinyl)pyridines. *Magnetic Resonance in Chemistry*, **2001**, 39, 334-340	2.1	161
100	The experimental studies on the determination of the ground and excited state dipole moments of some hemicyanine dyes. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2006**, 63, 524-31	4.4	72
99	Substituent and temperature controlled tautomerism: multinuclear magnetic resonance, X-ray, and theoretical studies on 2-phenacylquinolines. *Perkin Transactions II RSC*, **2000**, 1259-1266		60
98	Substituent and temperature controlled tautomerism of 2-phenacylpyridine: the hydrogen bond as a configurational lock of (Z)-2-(2-hydroxy-2-phenylvinyl)pyridine. *Perkin Transactions II RSC*, **2000**, 2185-2191		54
97	Self-organization of 2-acylaminopyridines in the solid state and in solution. *Journal of Physical Chemistry A*, **2010**, 114, 10421-6	2.8	45
96	Tautomeric equilibria and pi electron delocalization for some monohydroxyarenes--quantum chemical studies. *Journal of Organic Chemistry*, **2006**, 71, 3727-36	4.2	41
95	The Influence of the □Conjugated Spacer on Photophysical Properties of Difluoroboranyls Derived from Amides Carrying a Donor Group. *Journal of Organic Chemistry*, **2016**, 81, 2280-92	4.2	38
94	Substituent effects on the photophysical properties of fluorescent 2-benzoylmethylenequinoline difluoroboranes: A combined experimental and quantum chemical study. *Dyes and Pigments*, **2013**, 99, 957-965	4.6	37
93	Influence of substituent and benzoannulation on photophysical properties of 1-benzoylmethyleneisoquinoline difluoroborates. *Journal of Organic Chemistry*, **2015**, 80, 2072-80	4.2	36
92	Influence of bond fixation in benzo-annulated N-salicylideneanilines and their ortho-C(=O)X derivatives (X = CH3, NH2, OCH3) on tautomeric equilibria in solution. *Journal of Organic Chemistry*, **2007**, 72, 5598-607	4.2	36
91	Toward fully nonempirical simulations of optical band shapes of molecules in solution: a case study of heterocyclic ketoimine difluoroborates. *Journal of Physical Chemistry A*, **2015**, 119, 5145-52	2.8	35
90	Topology-driven physicochemical properties of pi-electron systems. 1. Does the Clar rule work in cyclic pi-electron systems with the intramolecular hydrogen or lithium bond?. *Journal of Organic Chemistry*, **2006**, 71, 7678-82	4.2	34
89	Tautomeric preferences of phthalones and related compounds. *Tetrahedron*, **2007**, 63, 9172-9178	2.4	32
88	Tautomeric equilibria, H-bonding and □electron delocalization in o-nitrosophenol. A B3LYP/6□11 + G(2df,2p) study. *Journal of Physical Organic Chemistry*, **2005**, 18, 892-897	2.1	31
87	(1Z,3Z)-1,4-Di(pyridin-2-yl)buta-1,3-diene-2,3-diol: the planar highly conjugated symmetrical enediol with multiple intramolecular hydrogen bonds. *Journal of Organic Chemistry*, **2002**, 67, 3339-45	4.2	29
86	Photophysical Properties of Phenacylphenantridine Difluoroboranyls: Effect of Substituent and Double Benzannulation. *Journal of Organic Chemistry*, **2017**, 82, 1529-1537	4.2	28

85	2-Acylamino-6-pyridones: breaking of an intramolecular hydrogen bond by self-association and complexation with double and triple hydrogen bonding counterparts. Uncommon steric effect on intermolecular interactions. *Journal of Organic Chemistry*, **2012**, 77, 1653-62	4.2	26
84	Complexation of 2,6-bis(acylamino)pyridines with dipyridin-2-ylamine and 4,4-dimethylpiperidine-2,6-dione. *Journal of Physical Chemistry A*, **2010**, 114, 12881-7	2.8	25
83	NMR and quantum chemical studies on association of 2,6-bis(acylamino)pyridines with selected imides and 2,2?-dipyridylamine. *Structural Chemistry*, **2010**, 21, 1061-1067	1.8	23
82	Effect of Electron Delocalization on Tautomeric Equilibria Benzoannulated 2-Phenacylpyridines. *European Journal of Organic Chemistry*, **2006**, 2006, 2817-2824	3.2	23
81	Substituent effect in 2-benzoylmethylenequinoline difluoroborates exhibiting through-space couplings. Multinuclear magnetic resonance, X-ray diffraction, and computational study. *Journal of Physical Chemistry A*, **2013**, 117, 252-6	2.8	21
80	15N NMR Studies of tautomerism. *International Reviews in Physical Chemistry*, **2012**, 31, 567-629	7	21
79	Identity double-proton transfer in (3Z)-3-hydroxy-1,4-di(quinolin-2-yl)but-3-en-2-one. *Chemistry - A European Journal*, **2003**, 9, 2710-6	4.8	20
78	Synthesis and Photophysical Properties of Novel Donor-Acceptor N-(Pyridin-2-yl)-Substituted Benzo(thio)amides and Their Difluoroboranyl Derivatives. *Journal of Physical Chemistry A*, **2016**, 120, 4116-23	2.8	18
77	4-Fluoroanilines: synthesis and decomposition. *Journal of Fluorine Chemistry*, **2001**, 111, 1-10	2.1	17
76	Association of N-(pyridin-2-yl),N'-substituted ureas with 2-amino-1,8-naphthyridines and benzoates: NMR and quantum chemical studies of the substituent effect on complexation. *Journal of Organic Chemistry*, **2013**, 78, 7582-93	4.2	16
75	2-Acylamino- and 2,4-bis(acylamino)pyrimidines as supramolecular synthons analyzed by multiple noncovalent interactions. DFT, X-ray diffraction, and NMR spectral studies. *Journal of Organic Chemistry*, **2012**, 77, 9609-19	4.2	16
74	Application of spectroscopic and theoretical methods in the studies of photoisomerization and photophysical properties of the push-pull styryl-benzimidazole dyes. *Photochemical and Photobiological Sciences*, **2016**, 15, 117-28	4.2	15
73	13C-NMR Based Evaluation of the Electronic and Steric Interactions in Aromatic Amines. *International Journal of Molecular Sciences*, **2005**, 6, 52-62	6.3	15
72	N-methyl-1,2-dihydro-2-benzoylmethylenequinolines: configurational dissimilarity with unmethylated congeners. *Journal of Molecular Structure*, **2000**, 525, 233-239	3.4	15
71	Quantifying the Performances of DFT for Predicting Vibrationally Resolved Optical Spectra: Asymmetric Fluoroborate Dyes as Working Examples. *Journal of Chemical Theory and Computation*, **2017**, 13, 4347-4356	6.4	14
70	Intermolecular steric hindrance in 7-acylamino-[1H]-2-oxo-1,8-naphthyridines: NMR, ESI-MS, IR, and DFT calculation studies. *Structural Chemistry*, **2011**, 22, 1143-1151	1.8	13
69	Two-photon absorption of BF-carrying compounds: insights from theory and experiment. *Physical Chemistry Chemical Physics*, **2017**, 19, 5705-5708	3.6	12
68	Influence of the Nature of the Amino Group in Highly Fluorescent Difluoroborates Exhibiting Intramolecular Charge Transfer. *Journal of Organic Chemistry*, **2018**, 83, 7779-7788	4.2	12

67	NMR crystallography of 2-acylamino-6-[1H]-pyridones: Solid-state NMR, GIPAW computational, and single crystal X-ray diffraction studies. *Journal of Molecular Structure*, **2011**, 1006, 678-683	3.4	12
66	Predominance of 2-arylhydrazones of 1,3-diphenylpropane-1,2,3-trione over its proton-transfer products. *Journal of Physical Organic Chemistry*, **2001**, 14, 797-803	2.1	12
65	Tuning the hydrogen-bonding strength in 2,6-bis(cycloalkylcarbonylamino)pyridine assemblies by variable flexibility. Association constants measured by hydrogen-bonded vs. non-hydrogen-bonded protons. *Supramolecular Chemistry*, **2011**, 23, 579-586	1.8	11
64	Bischromophoric styrylpyridinium dyes. Spectroscopic properties of 1,3-bis-[4-(p-N,N-dialkylaminostyryl)pyridinyl]propane dibromides. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2007**, 67, 306-15	4.4	11
63	Long-range substituent and temperature effect on prototropic tautomerism in 2-(acylmethyl)quinolines. *Journal of Physical Organic Chemistry*, **2001**, 14, 201-204	2.1	11
62	Substituent effects in hydrogen bonding: DFT and QTAIM studies on acids and carboxylates complexes with formamide. *Journal of Molecular Modeling*, **2014**, 20, 2356	2	10
61	The influence of CH bond polarization on the self-association of 2-acylaminopyrimidines by NH/CH□O/N interactions: XRD, NMR, DFT, and AIM study. *Structural Chemistry*, **2013**, 24, 2203-2209	1.8	10
60	DFT studies on tautomeric preferences. Part 3: Proton transfer in 2-(8-acylquinolin-2-yl)-1,3-diones. *Structural Chemistry*, **2010**, 21, 1037-1041	1.8	10
59	NMR spectral assignment of substituted salicylaldoximes by inverse pulse techniques with z-gradient selection: correlation of NMR parameters with substituent constants. *Magnetic Resonance in Chemistry*, **1997**, 35, 778-784	2.1	10
58	Spectral and physicochemical properties of difluoroboranyls containing N,N-dimethylamino group studied by solvatochromic methods. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 199, 86-95	4.4	9
57	Electron ionization mass spectra and tautomerism of substituted 2-phenacylquinolines. *Rapid Communications in Mass Spectrometry*, **2009**, 23, 1075-84	2.2	9
56	Systematic investigation of 2,7-dihydroxy-1,8-naphthyridine dimerization □econdary interactions and tautomeric preferences calculations. *Computational and Theoretical Chemistry*, **2009**, 908, 92-101		9
55	Proton transfer reaction and intermolecular interactions in associates of 2,5-dihydroxy-1,8-naphthyridine. *Journal of Molecular Modeling*, **2012**, 18, 1633-44	2	8
54	The influence of secondary interactions on complex stability and double proton transfer reaction in 2-[1H]-pyridone/2-hydroxypyridine dimers. *Journal of Molecular Modeling*, **2011**, 17, 2491-500	2	8
53	SYNTHESIS AND NMR SPECTRA OF 2-METHYL-2-QUINOLIN-2-YL-PROPIOPHENONES. *Heterocyclic Communications*, **1999**, 5,	1.7	8
52	Tuning the Electronic Properties of the Dative N-B Bond with Associated O-B Interaction: Electron Localizability Indicator from X-Ray Wavefunction Refinement. *ChemPhysChem*, **2016**, 17, 2395-406	3.2	8
51	The effect of benzoannulation on the transition state and the proton transfer equilibrium in di(2-pyridyl)methane derivatives. *New Journal of Chemistry*, **2011**, 35, 1433	3.6	7
50	Secondary interactions as driving force in heterocomplex formation of 2,7-disubstituted-1,8-naphthyridines: Quantum chemical, NMR and mass spectral investigations. *Journal of Molecular Structure*, **2009**, 931, 60-67	3.4	7

49	Electron ionization mass spectra and tautomerism of 2-phenacylpyridines. *European Journal of Mass Spectrometry*, **2006**, 12, 25-9	1.1	7
48	Structural characterization of Ð2?-pyridylaminocrotonoyl-2-pyridylamide by ESI-MS, NMR, single crystal X-ray analysis and ab initio methods. *Journal of Molecular Structure*, **2003**, 654, 61-69	3.4	7
47	The impact of the heteroatom in a five-membered ring on the photophysical properties of difluoroborates. *Dyes and Pigments*, **2019**, 170, 107481	4.6	6
46	Conformational equilibrium in supramolecular chemistry: Dibutyltriuret case. *Beilstein Journal of Organic Chemistry*, **2015**, 11, 2105-16	2.5	6
45	Noncovalent interactions between classical supramolecular synthons in solution: Hydrogen bonding in hindered 2-acylaminopyridine/2-pyridone associates. *Journal of Molecular Structure*, **2012**, 1018, 84-87	3.4	6
44	(1Z,3Z)-3-[Quinolin-2(1H)-ylidene]-1-(quinolin-2-yl)prop-1-en-2-ol: An unexpected most stable tautomer of 1,3-bis(quinolin-2-yl)acetone. *Journal of Molecular Structure*, **2009**, 930, 78-82	3.4	6
43	Synthesis of 6-acylmethylphenanthridine enaminones. *Journal of the Iranian Chemical Society*, **2005**, 2, 294-299	2	6
42	Complex tauto- and rotamerism of 2-(R-phenyl)-1,2,3,4-tetrahydroquinazolines. *Journal of Physical Organic Chemistry*, **2005**, 18, 737-742	2.1	6
41	Molecular Decoration of Ceramic Supports for Highly Effective Enzyme Immobilization-Material Approach. *Materials*, **2021**, 14,	3.5	6
40	Difluoroboranyl derivatives as efficient panchromatic photoinitiators in radical polymerization reactions. *Polymer Bulletin*, **2018**, 75, 3267-3281	2.4	6
39	Comment on Non-symmetric substituted ureas locked in an (E,Z) conformation: an unusual anion binding via supramolecular assembly by M. Olivari, C. Caltagirone, A. Garau, F. Isaia, M. E. Light, V. Lippolis, R. Montis and M. A. Scorciapino, New J. Chem., 2013, 37, 663. *New Journal of Chemistry*, **2014**, 38, 2701	3.6	5
38	Predominance of resonance over polar effects on 1H, 13C and 15N NMR substituent chemical shifts in N-arylglycines. *Magnetic Resonance in Chemistry*, **1998**, 36, 848-854	2.1	5
37	GIAO/DFT 13C NMR Chemical Shifts of 1,3,4-Thiadiazoles. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2007**, 182, 2217-2225	1	5
36	A detailed theoretical and experimental study on the N H, P O and C O stretching frequencies in two new phosphoric triamides and a statistical comparison with analogous structures. *Polyhedron*, **2019**, 158, 215-224	2.7	5
35	Conformational change in the association of a heterocyclic urea derivative forming two intramolecular hydrogen bonds in polar solvent. *New Journal of Chemistry*, **2017**, 41, 1073-1081	3.6	4
34	Design of Two-Photon-Excited Fluorescent Dyes Containing Fluoroborylene Groups. *ChemPhotoChem*, **2019**, 3, 719-726	3.3	4
33	Controlling Two-Photon Action Cross Section by Changing a Single Heteroatom Position in Fluorescent Dyes. *Journal of Physical Chemistry Letters*, **2020**, 11, 5920-5925	6.4	4
32	The / photoisomerization in hydrogen bonded complexes with stability controlled by substituent effects: 3-(6-aminopyridin-3-yl)acrylate case study.. *RSC Advances*, **2018**, 8, 23698-23710	3.7	4

31	Association of 2-acylaminopyridines and benzoic acids. Steric and electronic substituent effect studied by XRD, solution and solid-state NMR and calculations. *Journal of Molecular Structure*, **2013**, 1054-1055, 157-163	3.4	4
30	Effect of vinylene and 1,4-phenylene spacers on efficiency of the ground-state intramolecular charge-transfer in enlarged 4-dimethylamino-1-methylpyridinium cations. *Structural Chemistry*, **2009**, 20, 655-662	1.8	4
29	DFT studies on tautomeric preferences of 1-(pyridin-2-yl)-4-(quinolin-2-yl)butane-2,3-dione in the gas phase and in solution. *Structural Chemistry*, **2010**, 21, 1283-1287	1.8	4
28	Predominance of inductive over resonance substituent effect on 33S NMR chemical shifts of 4-substituted phenyl-4?-methylphenacyl sulfones. *Magnetic Resonance in Chemistry*, **1999**, 37, 437-440	2.1	4
27	Synthesis and Photophysical Studies of Novel V-Shaped 2,3-Bis{5-aryl-2-thienyl}(dibenzo[f,h])quinoxalines. *Asian Journal of Organic Chemistry*, **2020**, 9, 673-681	3	3
26	Two (E)-2-({[4-(dialkylamino)phenyl]imino}methyl)-4-nitrophenols. *Acta Crystallographica Section C: Crystal Structure Communications*, **2012**, 68, o279-82		3
25	The fabrication, characterization, and pervaporation performance of poly(ether-block-amide) membranes blended with 4-(trifluoromethyl)-N(pyridine-2-yl)benzamide and 4-(dimethylamino)-N(pyridine-2-yl)benzamide fillers. *Separation and Purification Technology*, **2021**, 268, 118707	8.3	3
24	Collision induced dissociation of N-(pyridin-2-yl)-substituted benzo(thio)amides and N-(isoquinolin-1-yl)furan(thiophene)-2-carboxamides and their difluoroboranyl derivatives. *International Journal of Mass Spectrometry*, **2018**, 428, 35-42	1.9	2
23	Use of time-resolved fluorescence spectroscopy to evaluate diagnostic value of collagen degradation products. *Journal of Biomedical Optics*, **2015**, 20, 051039	3.5	2
22	NMR Spectra of Anilines347-371		2
21	STABILITY OF THE DIMERS OF AZA ANALOGS OF 2-FORMYLPYRROLE. CONJUGATION VERSUS HYDROGEN BONDING. *Heterocyclic Communications*, **2003**, 9,	1.7	2
20	NMR spectral and X-ray structural investigation of 1,3-bis(2-quinolyl)-2-(p-chlorophenyl)-2-propanol. *Journal of Molecular Structure*, **2000**, 525, 241-245	3.4	2
19	Conformational Equilibrium and Substituent Effects in Hydrogen-bonded Complexes. *Current Organic Chemistry*, **2018**, 22, 2182-2199	1.7	2
18	Two-Photon Absorption Activity of BOPHY Derivatives: Insights from Theory. *Journal of Physical Chemistry A*, **2021**, 125, 2581-2587	2.8	2
17	2,6-Bis((benzoyl-R)amino)pyridine (R = H, 4-Me, and 4-NMe) Derivatives for the Removal of Cu(II), Ni(II), Co(II), and Zn(II) Ions from Aqueous Solutions in Classic Solvent Extraction and a Membrane Extraction. *Membranes*, **2021**, 11,	3.8	2
16	Substituted 2-(2-hydroxyphenyl)-3H-quinazolin-4-ones and their difluoroboron complexes: Synthesis and photophysical properties. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 252, 119497	4.4	2
15	The Copper(II) Ions Solvent Extraction with a New Compound: 2,6-Bis(4-Methoxybenzoyl)-Diaminopyridine. *Processes*, **2019**, 7, 954	2.9	2
14	Benchmarking Density Functional Approximations for Excited-State Properties of Fluorescent Dyes.. *Molecules*, **2021**, 26,	4.8	2

13	(Z)-Ethyl 2-oxo-3-(1,2-dihydroquinolin-2-yl-idene)propano-ate. *Acta Crystallographica Section E: Structure Reports Online*, **2010**, 66, o1746-7		1
12	N,N,N,N-Tetra-kis(2,3,4,5,6-penta-fluoro-benzo-yl)pyridine-2,6-diamine. *Acta Crystallographica Section E: Structure Reports Online*, **2011**, 67, o3429-30		1
11	2-Methyl-N-(pyrazin-2-yl)propanamide1,2,4,5-tetrafluoro-3,6-diiodobenzene (2/1). *IUCrData*, **2016**, 1,	0.7	1
10	N-(Pyrazin-2-yl)adamantane-1-carboxamide. *IUCrData*, **2016**, 1,	0.7	1
9	Symmetric Fluoroborate and its Boron Modification: Crystal and Electronic Structures. *Crystals*, **2019**, 9, 662	2.3	1
8	Tautomeric equilibrium, proton affinity and mass spectrometry fragmentation of flexible hydrogen-bonded precursors and rigid [Formula: see text] fluorescent dyes. *Scientific Reports*, **2021**, 11, 15995	4.9	1
7	Less is more: on the effect of benzannulation on the solid-state emission of difluoroborates. *Journal of Materials Chemistry C*,	7.1	1
6	Effect of conjugated system extension on structural features and electron-density distribution in charge-transfer difluoroborates. *Acta Crystallographica Section C, Structural Chemistry*, **2021**, 77, 807-813	0.8	0
5	N-[2-(2,2-Di-methyl-propanamido)-pyrimidin-4-yl]-2,2-di-methyl-propanamide n-hexane 0.25-solvate hemihydrate. *Acta Crystallographica Section E: Structure Reports Online*, **2013**, 69, o1617-8		
4	Supramolecular Approach to Tuning the Photophysical Properties of Quadrupolar Squaraines.. *Frontiers in Chemistry*, **2021**, 9, 800541	5	
3	N-(2-Benzoyl-4-chloro-phen-yl)-4-chloro-benzene-sulfonamide. *Acta Crystallographica Section E: Structure Reports Online*, **2008**, 64, o737		
2	6-Amino-2-(pivaloyl-amino)-pyridinium benzoate. *Acta Crystallographica Section E: Structure Reports Online*, **2013**, 69, o1483-4		
1	(A)symmetric chromophores based on cyano and fluorine-substituted 2,3-bis(5-arylthiophen-2-yl)quinoxalines: Synthesis, photophysical properties and application prospects. *Dyes and Pigments*, **2022**, 204, 110434	4.6	