Borys Osmialowski

List of Publications by Year in Descending Order

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	(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	
101	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
100	Supramolecular Approach to Tuning the Photophysical Properties of Quadrupolar Squaraines.. *Frontiers in Chemistry*, **2021**, 9, 800541	5	
99	Two-Photon Absorption Activity of BOPHY Derivatives: Insights from Theory. *Journal of Physical Chemistry A*, **2021**, 125, 2581-2587	2.8	2
98	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
97	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
96	Molecular Decoration of Ceramic Supports for Highly Effective Enzyme Immobilization-Material Approach. *Materials*, **2021**, 14,	3.5	6
95	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
94	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
93	Benchmarking Density Functional Approximations for Excited-State Properties of Fluorescent Dyes.. *Molecules*, **2021**, 26,	4.8	2
92	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
91	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
90	Design of Two-Photon-Excited Fluorescent Dyes Containing Fluoroborylene Groups. *ChemPhotoChem*, **2019**, 3, 719-726	3.3	4
89	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
88	The Copper(II) Ions Solvent Extraction with a New Compound: 2,6-Bis(4-Methoxybenzoyl)-Diaminopyridine. *Processes*, **2019**, 7, 954	2.9	2
87	Symmetric Fluoroborate and its Boron Modification: Crystal and Electronic Structures. *Crystals*, **2019**, 9, 662	2.3	1
86	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

85	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
84	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
83	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
82	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
81	Conformational Equilibrium and Substituent Effects in Hydrogen-bonded Complexes. *Current Organic Chemistry*, **2018**, 22, 2182-2199	1.7	2
80	Difluoroboranyl derivatives as efficient panchromatic photoinitiators in radical polymerization reactions. *Polymer Bulletin*, **2018**, 75, 3267-3281	2.4	6
79	Photophysical Properties of Phenacylphenantridine Difluoroboranyls: Effect of Substituent and Double Benzannulation. *Journal of Organic Chemistry*, **2017**, 82, 1529-1537	4.2	28
78	Two-photon absorption of BF-carrying compounds: insights from theory and experiment. *Physical Chemistry Chemical Physics*, **2017**, 19, 5705-5708	3.6	12
77	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
76	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
75	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
74	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
73	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
72	2-Methyl-N-(pyrazin-2-yl)propanamide1,2,4,5-tetrafluoro-3,6-diiodobenzene (2/1). *IUCrData*, **2016**, 1,	0.7	1
71	N-(Pyrazin-2-yl)adamantane-1-carboxamide. *IUCrData*, **2016**, 1,	0.7	1
70	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
69	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
68	Conformational equilibrium in supramolecular chemistry: Dibutyltriuret case. *Beilstein Journal of Organic Chemistry*, **2015**, 11, 2105-16	2.5	6

67	Use of time-resolved fluorescence spectroscopy to evaluate diagnostic value of collagen degradation products. *Journal of Biomedical Optics*, **2015**, 20, 051039	3.5	2
66	Influence of substituent and benzoannulation on photophysical properties of 1-benzoylmethyleneisoquinoline difluoroborates. *Journal of Organic Chemistry*, **2015**, 80, 2072-80	4.2	36
65	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
64	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
63	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
62	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
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	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
59	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
58	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		
57	6-Amino-2-(pivaloyl-amino)-pyridinium benzoate. *Acta Crystallographica Section E: Structure Reports Online*, **2013**, 69, o1483-4		
56	Two (E)-2-({[4-(dialkylamino)phenyl]imino}methyl)-4-nitrophenols. *Acta Crystallographica Section C: Crystal Structure Communications*, **2012**, 68, o279-82		3
55	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
54	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
53	15N NMR Studies of tautomerism. *International Reviews in Physical Chemistry*, **2012**, 31, 567-629	7	21
52	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
51	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
50	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

49	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
48	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
47	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
46	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
45	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
44	(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
43	Self-organization of 2-acylaminopyridines in the solid state and in solution. *Journal of Physical Chemistry A*, **2010**, 114, 10421-6	2.8	45
42	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
41	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
40	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
39	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
38	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
37	Electron ionization mass spectra and tautomerism of substituted 2-phenacylquinolines. *Rapid Communications in Mass Spectrometry*, **2009**, 23, 1075-84	2.2	9
36	(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
35	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
34	Systematic investigation of 2,7-dihydroxy-1,8-naphthyridine dimerization ⊠secondary interactions and tautomeric preferences calculations. *Computational and Theoretical Chemistry*, **2009**, 908, 92-101		9
33	N-(2-Benzoyl-4-chloro-phen-yl)-4-chloro-benzene-sulfonamide. *Acta Crystallographica Section E: Structure Reports Online*, **2008**, 64, o737		
32	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

31	Tautomeric preferences of phthalones and related compounds. *Tetrahedron*, **2007**, 63, 9172-9178	2.4	32
30	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
29	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
28	Effect of Electron Delocalization on Tautomeric Equilibria Benzoannulated 2-Phenacylpyridines. *European Journal of Organic Chemistry*, **2006**, 2006, 2817-2824	3.2	23
27	Tautomeric equilibria and pi electron delocalization for some monohydroxyarenes--quantum chemical studies. *Journal of Organic Chemistry*, **2006**, 71, 3727-36	4.2	41
26	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
25	Electron ionization mass spectra and tautomerism of 2-phenacylpyridines. *European Journal of Mass Spectrometry*, **2006**, 12, 25-9	1.1	7
24	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
23	Tautomeric equilibria in relation to pi-electron delocalization. *Chemical Reviews*, **2005**, 105, 3561-612	68.1	260
22	Synthesis of 6-acylmethylphenanthridine enaminones. *Journal of the Iranian Chemical Society*, **2005**, 2, 294-299	2	6
21	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
20	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
19	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
18	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
17	Structural characterization of ?2?-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
16	STABILITY OF THE DIMERS OF AZA ANALOGS OF 2-FORMYLPYRROLE. CONJUGATION VERSUS HYDROGEN BONDING. *Heterocyclic Communications*, **2003**, 9,	1.7	2
15	(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
14	4-Fluoroanilines: synthesis and decomposition. *Journal of Fluorine Chemistry*, **2001**, 111, 1-10	2.1	17

13	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
12	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
11	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
10	N-methyl-1,2-dihydro-2-benzoylmethylenequinolines: configurational dissimilarity with unmethylated congeners. *Journal of Molecular Structure*, **2000**, 525, 233-239	3.4	15
9	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
8	Substituent and temperature controlled tautomerism: multinuclear magnetic resonance, X-ray, and theoretical studies on 2-phenacylquinolines. *Perkin Transactions II RSC*, **2000**, 1259-1266		60
7	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
6	SYNTHESIS AND NMR SPECTRA OF 2-METHYL-2-QUINOLIN-2-YL-PROPIOPHENONES. *Heterocyclic Communications*, **1999**, 5,	1.7	8
5	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
4	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
3	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
2	NMR Spectra of Anilines347-371		2
1	Less is more: on the effect of benzannulation on the solid-state emission of difluoroborates. *Journal of Materials Chemistry C*,	7.1	1