

Beata Jährzejewska

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Influence of Substituent and Benzoannulation on Photophysical Properties of 1-Benzoylmethyleneisoquinoline Difluoroborates. <i>Journal of Organic Chemistry</i> , 2015, 80, 2072-2080.	1.7	47
2	The Influence of the π -Conjugated Spacer on Photophysical Properties of Difluoroboranyls Derived from Amides Carrying a Donor Group. <i>Journal of Organic Chemistry</i> , 2016, 81, 2280-2292.	1.7	45
3	Substituent effects on the photophysical properties of fluorescent 2-benzoylmethylenequinoline difluoroboranes: A combined experimental and quantum chemical study. <i>Dyes and Pigments</i> , 2013, 99, 957-965.	2.0	42
4	Hemicyanine dyes: synthesis, structure and photophysical properties. <i>Dyes and Pigments</i> , 2003, 58, 47-58.	2.0	40
5	Photophysical Properties of Phenacylphenanthridine Difluoroboranyls: Effect of Substituent and Double Benzannulation. <i>Journal of Organic Chemistry</i> , 2017, 82, 1529-1537.	1.7	37
6	Synthesis and Linear and Nonlinear Optical Properties of Three Push-Pull Oxazol-5(4 <i>H</i>)-one Compounds. <i>Journal of Organic Chemistry</i> , 2015, 80, 9641-9651.	1.7	36
7	Styrylpyridinium borate salts as dye photoinitiators of free-radical polymerization. <i>Journal of Polymer Science Part A</i> , 2002, 40, 1433-1440.	2.5	35
8	Styryl dye possessing donor- π -acceptor structure – Synthesis, spectroscopic and computational studies. <i>Dyes and Pigments</i> , 2013, 99, 673-685.	2.0	33
9	Hemicyanine-butyltriphenylborate salts as effective initiators of free-radical polymerization photoinitiated via photoinduced electron-transfer process. <i>Journal of Polymer Science Part A</i> , 2003, 41, 3017-3026.	2.5	29
10	Development of fluorescence probes based on stilbazolium salts for monitoring free radical polymerization processes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 1909-1917.	0.9	28
11	The synthesis and the solvent and substituent effect on the spectroscopic characteristic of 3-ethyl-2-(<i>p</i> -substituted styryl)benzothiazolium iodides. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 62, 115-125.	2.0	28
12	Asymmetric cyanine dyes as fluorescence probes and visible-light photoinitiators of free-radical polymerization processes. <i>Journal of Applied Polymer Science</i> , 2006, 99, 207-217.	1.3	27
13	Experimental and theoretical studies of the influence of solvent polarity on the spectral properties of two push-pull oxazol-5(4 <i>H</i>)-one compounds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 258-267.	2.0	27
14	Studies on an argon laser-induced photopolymerization employing both mono- and bischromophoric hemicyanine dye-borate complex as a photoinitiator: Part II. <i>Materials Chemistry and Physics</i> , 2008, 111, 400-408.	2.0	26
15	Developing of Fluorescence Probes Based on Stilbazolium Salts for Monitoring Free Radical Polymerization Processes. II. <i>Journal of Fluorescence</i> , 2004, 14, 295-307.	1.3	25
16	Spectroscopic and nonlinear optical properties of new chalcone fluorescent probes for bioimaging applications: a theoretical and experimental study. <i>Journal of Molecular Modeling</i> , 2016, 22, 125.	0.8	25
17	Studies on an argon laser-induced photopolymerization employing both mono- and bischromophoric hemicyanine dye-borate complex as a photoinitiator. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 195, 105-115.	2.0	24
18	Accelerated Photobleaching of a Cyanine Dye in the Presence of a Ternary Target DNA, PNA Probe, Dye Catalytic Complex: A Molecular Diagnostic. <i>Analytical Chemistry</i> , 2009, 81, 2043-2052.	3.2	24

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19	Photochemical preparation of polymer-clay composites. <i>Applied Clay Science</i> , 2004, 25, 221-227.	2.6	22
20	Stilbene-Like Molecules as Fluorescent Probes Applied for Monitoring of Polymerization Process. <i>Journal of Fluorescence</i> , 2006, 16, 525-534.	1.3	22
21	Synthesis and Photophysical Properties of Novel Donor-acceptor-(Pyridin-2-yl)-Substituted Benzo(thio)amides and Their Difluoroboranyl Derivatives. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4116-4123.	1.1	22
22	Influence of the Nature of the Amino Group in Highly Fluorescent Difluoroborates Exhibiting Intramolecular Charge Transfer. <i>Journal of Organic Chemistry</i> , 2018, 83, 7779-7788.	1.7	22
23	Phenyltrialkylborates as co-initiators with cyanine dyes in visible light polymerization of acrylates. <i>Polymer</i> , 2011, 52, 2110-2119.	1.8	21
24	Synthesis, photophysical properties and systematic evaluations of new phenanthroimidazole fluorescent probe for bioimaging: Experimental and theoretical study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 166, 74-85.	1.7	21
25	Kinetic study of free-radical polymerization photoinitiated by cyanine-borate salts. II. <i>Journal of Polymer Science Part A</i> , 2000, 38, 2365-2374.	2.5	20
26	Solvent Effects on the Spectroscopic Properties of Styrylquinolinium Dyes Series. <i>Journal of Fluorescence</i> , 2010, 20, 73-86.	1.3	20
27	New heterobicationic hemicyanine dyes: Synthesis, spectroscopic properties, and photoinitiating ability. <i>Journal of Polymer Science Part A</i> , 2006, 44, 6345-6359.	2.5	19
28	Dichromophoric hemicyanine dyes. Synthesis and spectroscopic investigation. <i>Dyes and Pigments</i> , 2007, 74, 262-268.	2.0	19
29	The synthesis and spectroscopic investigation of dichromophoric hemicyanine dyes. <i>Dyes and Pigments</i> , 2009, 80, 297-306.	2.0	19
30	Application of spectroscopic and theoretical methods in the studies of photoisomerization and photophysical properties of the push-pull styryl-benzimidazole dyes. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 117-128.	1.6	19
31	Two-photon absorption of BF ₂ -carrying compounds: insights from theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5705-5708.	1.3	17
32	Photostability of push-pull phenanthroimidazole derivative upon one- and two-photon excitation. <i>Dyes and Pigments</i> , 2017, 136, 150-160.	2.0	17
33	Synthesis, spectroscopic, physicochemical properties and binding site analysis of 4-(1H-phenanthro[9,10-d]-imidazol-2-yl)-benzaldehyde fluorescent probe for imaging in cell biology: Experimental and theoretical study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 164, 112-122.	1.7	15
34	Tetramethylammonium phenyltrialkylborates as co-initiators with novel two-cationic styrylbenzimidazolium dyes in highly efficient, visible light polymerization of acrylate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 214, 276-283.	2.0	14
35	Synthesis and photophysical properties of two-photon chromophores containing 1H-benzimidazole residue. <i>Dyes and Pigments</i> , 2014, 111, 162-175.	2.0	14
36	Controlling Two-Photon Action Cross Section by Changing a Single Heteroatom Position in Fluorescent Dyes. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5920-5925.	2.1	14

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37	Unusually highly efficient, singlet state, visible light photoinitiators based on styrylbenzimidazolium phenyltributylborate photoredox pairs for vinyl monomers free radical polymerization. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4119-4129.	2.5	13
38	An optical modulator on the pyrazolone-based bi-component system. <i>Dyes and Pigments</i> , 2020, 172, 107805.	2.0	13
39	1,3-Bis[4-(p-aminostyryl)-pyridinyl]-propane dibromide derivatives: Synthesis and spectroscopic investigation. <i>Dyes and Pigments</i> , 2007, 73, 361-367.	2.0	12
40	Experimental and theoretical insight into spectroscopic properties and bioactivity of 4-(4-formylbenzylidene)-2-phenyloxazol-5(4H)-one dye for future applications in biochemistry. <i>Journal of Molecular Liquids</i> , 2020, 314, 113632.	2.3	12
41	Bischromophoric styrylpyridinium dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 67, 306-315.	2.0	11
42	Polymethine Dyes as Fluorescent Probes and Visible-Light Photoinitiators for Free Radical Polymerization. <i>Topics in Heterocyclic Chemistry</i> , 2008, , 183-220.	0.2	10
43	Novel <i>N,N</i> -diethyl-2-styrylquinolinium iodides as sensitizers in the photoinitiated free radical polymerization of trimethylolpropane triacrylate. II. <i>Journal of Applied Polymer Science</i> , 2010, 118, 165-172.	1.3	10
44	Styrylbenzimidazolium dye-borate complex as an effective, singlet state photoinitiator in an argon laser-induced TMPTA photopolymerization. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 32-40.	2.0	10
45	Factors affecting the TMPTA radical polymerization photoinitiated by phenyltrialkylborates paired with tri-cationic hemicyanine dye. <i>Kinetic studies. Colloid and Polymer Science</i> , 2013, 291, 2225-2236.	1.0	10
46	Synthesis, photophysical and biological properties of a new oxazolone fluorescent probe for bioimaging: an experimental and theoretical study. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8952-8966.	1.5	10
47	Spectral and physicochemical properties of difluoroboranyls containing <i>N,N</i> -dimethylamino group studied by solvatochromic methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 199, 86-95.	2.0	10
48	Difluoroboranyl derivatives as efficient panchromatic photoinitiators in radical polymerization reactions. <i>Polymer Bulletin</i> , 2018, 75, 3267-3281.	1.7	10
49	Multifunctional Oxazolone Derivative as an Optical Amplifier, Generator, and Modulator. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1742-1757.	1.2	10
50	The impact of the heteroatom in a five-membered ring on the photophysical properties of difluoroborates. <i>Dyes and Pigments</i> , 2019, 170, 107481.	2.0	9
51	2-(1H-phenanthro[9,10-d]imidazol-2-yl)-phenyl-4-carboxylic acid <i>N</i> -hydroxysuccinimide ester: A new phenanthroimidazole derivative as a fluorescent probe for medical imaging applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117757.	2.0	9
52	Styrylquinolinium borates as donor-acceptor initiators for sensitized photopolymerization of TMPTA. <i>Materials Chemistry and Physics</i> , 2009, 117, 448-454.	2.0	8
53	Influence of degree of methyl methacrylate polymerization on spectroscopic properties of ethyl 5-(4-aminophenyl)- and 5-(4-dimethylaminophenyl)-3-amino-2,4-dicyanobenzoate. <i>Journal of Luminescence</i> , 2013, 134, 414-422.	1.5	8
54	Highly Effective Sensitizers Based on Merocyanine Dyes for Visible Light Initiated Radical Polymerization. <i>Polymers</i> , 2020, 12, 1242.	2.0	8

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55	A Modified Oxazolone Dye Dedicated to Spectroscopy and Optoelectronics. <i>Journal of Organic Chemistry</i> , 2022, 87, 7319-7332.	1.7	8
56	Electron Transfer Photoinitiating Systems. The Effect of the Co-Initiator Structure on the Photoinitiation Ability of a Photoredox Pair Containing Neutral Hemicyanine Dyes as Sensitizers. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 646-654.	1.7	7
57	One- and two-photon-induced isomerization of styryl compounds possessing A- π -A ² structure. <i>Dyes and Pigments</i> , 2016, 132, 237-247.	2.0	7
58	Electron transfer processes in photoinitiating systems composed of hemicyanine sec-butyltriphenylborate ion pairs. <i>Polymer Bulletin</i> , 2005, 54, 409-416.	1.7	6
59	Development of new heterobicationic monomethine dyes as effective photoinitiator of free radical polymerization in visible-light region. <i>Journal of Applied Polymer Science</i> , 2008, 108, 1636-1645.	1.3	6
60	Tailoring the nonlinear absorption of fluorescent dyes by substitution at a boron center. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6225-6233.	2.7	6
61	Onium Salts of Amino Acids as Co-Initiators in Photoinduced Free-Radical Polymerization. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 1179-1184.	1.7	5
62	Studies on an argon laser-induced photopolymerization employing both mono- and bischromophoric hemicyanine dye-Borate complex as a photoinitiator. Part III. <i>Journal of Applied Polymer Science</i> , 2010, 118, 1395-1405.	1.3	5
63	Applicability of hemicyanine phenyltrialkylborate salts as free radical photoinitiators in the visible-light polymerization of acrylate. <i>Journal of Applied Polymer Science</i> , 2012, 123, 3535-3544.	1.3	5
64	The trans/cis photoisomerization in hydrogen bonded complexes with stability controlled by substituent effects: 3-(6-aminopyridin-3-yl)acrylate case study. <i>RSC Advances</i> , 2018, 8, 23698-23710.	1.7	5
65	Structural effect of oxazolone derivatives on the initiating abilities of dye-borate photoredox systems in radical polymerization under visible light. <i>RSC Advances</i> , 2020, 10, 21487-21494.	1.7	5
66	Effective Singlet Oxygen Sensitizers Based on the Phenazine Skeleton as Efficient Light Absorbers in Dye Photoinitiating Systems for Radical Polymerization of Acrylates. <i>Materials</i> , 2021, 14, 3085.	1.3	5
67	Hexaarylbisimidazoles and ketocyanine dyes as effective electron transfer photoinitiating systems. <i>Polimery</i> , 2002, 47, 654-656.	0.4	5
68	Photopolymerization of trimethylolpropane triacrylate induced by diselenide derivatives. <i>Polimery</i> , 2009, 54, 417-420.	0.4	5
69	Synthesis and optical properties of linear and branched styrylpyridinium dyes in different environments. <i>Journal of Molecular Liquids</i> , 2022, 356, 119007.	2.3	5
70	Synthesis of tetramethylammonium phenyltrialkylborate salts by the addition of alkyllithium reagents to a triorganylborane or organoboranylhalides. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 2135-2141.	0.8	4
71	Dipole moment determination of 4-[N-(5,6,7,8-tetrahydroisoquinolinium-5-ylidene)methyl]-N,N-dialkylaniline iodides in solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 985-992.	2.0	4
72	Interaction of Carbocyanine Dyes with DNA: Synthesis and Spectroscopic Studies. <i>Applied Spectroscopy</i> , 2013, 67, 672-680.	1.2	4

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73	Convenient Synthesis of p-Aminobenzoic Acids and their Methyl Esters. <i>Organic Preparations and Procedures International</i> , 2017, 49, 45-52.	0.6	4
74	Organosilicon sulfides as co-initiators in photoinduced free radical polymerization. <i>Polymer Bulletin</i> , 2006, 56, 119-128.	1.7	3
75	Effect of the Chloro-Substitution on Electrochemical and Optical Properties of New Carbazole Dyes. <i>Materials</i> , 2021, 14, 3091.	1.3	3
76	Photochemical preparation of polymer-clay composites. <i>Polimery</i> , 2002, 47, 136-138.	0.4	3
77	Hemicyanine sec-butyltriphenylborate salts as effective initiators of free radical polymerization initiated via photoinduced electron transfer process. Part II. Kinetic studies and application of electron transfer theory. <i>Polimery</i> , 2005, 50, 418-423.	0.4	3
78	Fluorescent Chitosan Modified with Heterocyclic Aromatic Dyes. <i>Materials</i> , 2021, 14, 6429.	1.3	3
79	Novel 6-bromo-3-ethyl-2-styrylbenzothiazolium n-butyl-triphenylborates as photoinitiators of trimethylolpropane triacrylate (TMPTA) polymerization. <i>Polymer Bulletin</i> , 2007, 58, 691-701.	1.7	2
80	Synthesis and spectroscopic investigation of cationic donor-acceptor dye, 4-(5,6,7,8-tetrahydroisoquinolinium-5-ylidene)methyl]dialkylaniline iodide. <i>Coloration Technology</i> , 2011, 127, 288-296.	0.7	2
81	Electrospray ionization collision induced dissociation of thiocarbocyanine and selenocarbocyanine dyes. <i>Journal of Mass Spectrometry</i> , 2019, 54, 592-599.	0.7	2
82	Acenaphthoquinoline Derivatives as Dental Photoinitiators of Acrylates Polymerization. <i>Materials</i> , 2021, 14, 4881.	1.3	2
83	Silver-nanoparticle immobilized initiator and co-initiators for free radical polymerization. <i>Materials Letters</i> , 2008, 62, 4260-4262.	1.3	1
84	Aromatic Amines in Organic Synthesis. Part II. p-Aminocinnamaldehydes. <i>Molecules</i> , 2021, 26, 4360.	1.7	1
85	Synthesis and studies of novel homodimeric styrylbenzimidazolium dyes applied as photoinitiators for the radical polymerization of acrylic monomers. <i>Polimery</i> , 2015, 60, 242-250.	0.4	0