

Alexander D Roshal

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Nonlinear activity and long-term stability of thin polymer films based on poly(3,5,7,3,4-pentahydroxyflavone-8-sulfonic acid) sodium salt. <i>Polymers and Polymer Composites</i> , 2022, 30, 096739112110729.	1.9	0
2	Changes in cell membranes of white blood cells treated with a common food additive E407a. <i>Turkish Journal of Biochemistry</i> , 2021, 46, 557-562.	0.5	1
3	Progress and Achievements in Glycosylation of Flavonoids. <i>Frontiers in Chemistry</i> , 2021, 9, 637994.	3.6	17
4	The study of phospholipid bilayer of cell membranes in leukocytes incubated with high concentrations of the food additive E407a. <i>Journal of Clinical Medicine of Kazakhstan</i> , 2021, 18, 49-52.	0.3	0
5	Prospective biologically active compounds based on 5-formylthiazole. <i>Functional Materials</i> , 2021, 28, .	0.1	2
6	Influence of environmental factors on functional properties of optical polymer films. <i>Functional Materials</i> , 2021, 28, .	0.1	0
7	Effects of semi-refined carrageenan (food additive E407a) on cell membranes of leukocytes assessed in vivo and in vitro. <i>Medicinski Glasnik</i> , 2021, 18, 176-183.	0.4	1
8	Composite materials based on SiO ₂ -matrices saturated with DAST. <i>Journal of Non-Crystalline Solids</i> , 2020, 535, 119957.	3.1	4
9	Aminofluoresceins Versus Fluorescein: Ascertained New Unusual Features of Tautomerism and Dissociation of Hydroxyxanthene Dyes in Solution. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8845-8859.	2.5	11
10	Aminofluoresceins Versus Fluorescein: Peculiarity of Fluorescence. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8860-8870.	2.5	13
11	On the use of acridinium indicators for the chemiluminescent determination of the total antioxidant capacity of dietary supplements. <i>Luminescence</i> , 2019, 34, 512-519.	2.9	13
12	Hydroxyflavone-containing polymers: theoretical prediction of spectral and nonlinear optical properties. <i>Functional Materials</i> , 2019, 26, 164-173.	0.1	2
13	METHOD OF ESTIMATION OF THE INFLUENCE OF CHEMICAL AND PHYSICAL FACTORS ON BIOPOLYMERS BY THE TEXTURES OF THEIR FILMS. <i>Radiofizika I Elektronika</i> , 2019, 24, 58-68.	0.2	0
14	Synthesis and Characterization of Dye-Doped Polymer Films for Non-linear Optical Applications. <i>Chemistry and Chemical Technology</i> , 2019, 13, 459-464.	1.1	1
15	Structural and Spectral Features of 4-Substituted 2-Hydroxychalcones in Solutions and Crystals: Spectroscopic and Theoretical Investigations. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2030-2038.	2.5	16
16	Electronic absorption spectra and fluorescent properties of non-associated 16,17-bis(alkoxy)violanthrone dyes and their dependence on the nature of substituent and solvent's parameters. <i>Dyes and Pigments</i> , 2018, 156, 45-52.	3.7	1
17	Effect of gamma-irradiation of bovine serum albumin solution on the formation of zigzag film textures. <i>Radiation Physics and Chemistry</i> , 2018, 144, 231-237.	2.8	6
18	Optical properties and component composition of layers of cyanine dyes on dielectric supports: influence of asymmetry of the molecular electron density distribution. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	3.3	6

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19	Influence of structure 3,5,7,3,4-Pentahydroxyflavone-based polymer films on their optical transparency. <i>Optical Materials</i> , 2017, 64, 166-170.	3.6	10
20	Exploring double proton transfer: A review on photochemical features of compounds with two proton-transfer sites. <i>Dyes and Pigments</i> , 2017, 138, 223-244.	3.7	71
21	Influence of residual solvent on relaxation behavior of polymer films based on glycidyl derivatives of 3, 5, 7, 3',4'-pentahydroxyflavone. <i>Functional Materials</i> , 2017, 23, 068-075.	0.1	3
22	Growth peculiarities of doped lithium dihydrogen phosphate single crystals from nonstoichiometric solution. <i>Functional Materials</i> , 2017, 24, 005-236.	0.1	0
23	Flavonol-based fluorescent indicator for determination of β -glucosidase activity. <i>RSC Advances</i> , 2016, 6, 42532-42536.	3.6	28
24	Relaxation behavior and nonlinear properties of thermally stable polymers based on glycidyl derivatives of quercetin. <i>Optical Materials</i> , 2016, 57, 179-184.	3.6	7
25	Fluorescence of aminofluoresceins as an indicative process allowing one to distinguish between micelles of cationic surfactants and micelle-like aggregates. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 034002.	2.3	9
26	Origin of Spectral Features and Acid-Base Properties of 3,7-Dihydroxyflavone and Its Monofunctional Derivatives in the Ground and Excited States. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4325-4337.	2.5	4
27	Synthesis, molecular structure and optical properties of glycidyl derivatives of quercetin. <i>Structural Chemistry</i> , 2016, 27, 285-294.	2.0	18
28	Global and local interactions in the structure of crystalline 7-(diethylamino)-2-(2-oxo-2H-chromen-3-yl)chromenium perchlorate. <i>Structural Chemistry</i> , 2016, 27, 637-649.	2.0	2
29	Second-Order Polarizability and Temporal Stability of Epoxy Polymers Doped with Chromophore and with Chromophore Moieties in the Main Chain. <i>Polymers and Polymer Composites</i> , 2015, 23, 129-136.	1.9	4
30	Influence of thallium and salicylic acid impurities as well as of the solution stoichiometry on the growth kinetics of prismatic ADP crystal faces. <i>Journal of Crystal Growth</i> , 2015, 415, 100-105.	1.5	1
31	Textures on the surface of BSA films with different concentrations of sodium halides and water state in solution. <i>Nanoscale Research Letters</i> , 2015, 10, 155.	5.7	12
32	7-Hydroxyflavone Revisited. 2. Substitution Effect on Spectral and Acid-Base Properties in the Ground and Excited States. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12672-12685.	2.5	9
33	Single and double intramolecular proton transfers in the electronically excited state of flavone derivatives. <i>RSC Advances</i> , 2015, 5, 102191-102203.	3.6	24
34	Influence of the rigidity of the steroid core in the structure of chiral dopants on the temperature dependence of cholesteric short pitch. <i>Displays</i> , 2015, 36, 34-40.	3.7	3
35	Spectral Properties of Dyes with Interfragmental Charge Transfer: Solvatochromism and Solvatofluorochromism of 2-(3-Coumaroyl)-benzopyrylium Perchlorates. <i>International Journal of Spectroscopy</i> , 2014, 2014, 1-8.	1.6	1
36	Quantum-Chemical Analysis of the Algar-Flynn-Oyamada Reaction Mechanism. <i>Chemistry of Heterocyclic Compounds</i> , 2014, 50, 396-403.	1.2	14

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37	Quantum-Chemical Investigation of the Structure and Spectral Characteristics of 2-(3-Coumaroyl)Benzopyrylium Cations. <i>Chemistry of Heterocyclic Compounds</i> , 2014, 50, 371-378.	1.2	1
38	Photochromic and Thermochemical Spirans 41*. Quantum-Chemical Study of the Geometry and Electronic Structure of 1,3,3-Trimethyl-1,2-diphenylspiro[Indoline-2,7-furo[3,2-f]chromene] in the Ground and Excited States. <i>Chemistry of Heterocyclic Compounds</i> , 2014, 50, 364-370.	1.2	1
39	7-Hydroxyflavone Revisited: Spectral, Acid-Base Properties, and Interplay of the Protolytic Forms in the Ground and Excited States. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3068-3080.	2.5	16
40	Structure, tautomerism, and features of 1-(5-acetyl-2,4-dihydroxyphenyl)-3-(furan-2-yl)prop-2-en-1-one (FC) and 1,1-(4,6-dihydroxybenzene-1,3-diyl)bis[3-(furan-2-yl)prop-2-en-1-one] (FDC). <i>Structural Chemistry</i> , 2014, 25, 969-977.	2.0	4
41	Tautomerism and Behavior of 3-Hydroxy-2-phenyl-4-chromen-4-ones (Flavonols) and 3,7-Dihydroxy-2,8-diphenyl-6-pyrano[3,2-g]chromene-4,6-diones (Diflavonols) in Basic Media: Spectroscopic and Computational Investigations. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9156-9167.	2.5	18
42	2-(4-Hydroxyphenyl)-3-methoxy-4H-chromen-4-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o895-o895.	0.2	5
43	Investigations of solvatochromism of 2-(3-coumaroyl)-benzopyrylium dye and its di-substituted derivatives. <i>Functional Materials</i> , 2013, 20, 366-372.	0.1	2
44	2-(4-Fluorophenyl)-2H-chromen-4(3H)-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o253-o254.	0.2	2
45	Formation of Nanoscale Protective Coatings on Iron Alloys from Podand-Containing Solutions. <i>Materials Science</i> , 2012, 48, 203-207.	0.9	0
46	Chemiluminogenic Features of 10-Methyl-9-(phenoxy-carbonyl)acridinium Trifluoromethanesulfonates Alkyl Substituted at the Benzene Ring in Aqueous Media. <i>Journal of Organic Chemistry</i> , 2011, 76, 1072-1085.	3.2	49
47	Hybrid organic-inorganic crystals based on ammonium dihydrogen phosphate and ammonium salicylate. <i>Journal of Crystal Growth</i> , 2011, 335, 84-89.	1.5	8
48	Cinnamoyl pyrones in proton-donating media: Electronic structure and spectral properties of protolytic forms. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 221-230.	3.9	7
49	Tautomerism, structure and properties of 1,1-(2,4,6-trihydroxybenzene-1,3,5-triyl)triethanone. <i>Tetrahedron Letters</i> , 2011, 52, 2737-2740.	1.4	15
50	3-Hydroxy-2-(4-methoxyphenyl)-4H-chromen-4-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o440-o440.	0.2	5
51	The Self-Assembly of Diblock Copolymers MePEG-b-PAAm into Micellar Structures and Their Interaction with Doxorubicin. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 536, 166/[398]-172/[404].	0.9	8
52	In Search for the Phenolate-Monoanion of Fluorescein in Solution. <i>Chemistry Letters</i> , 2010, 39, 30-31.	1.3	12
53	New chiral 3-aryl-7-arylmethylidene-3,3a,4,5,6,7-hexahydroindazoles: Synthesis, structure, and twisting power in nematic liquid crystals. <i>Russian Journal of Organic Chemistry</i> , 2010, 46, 1207-1213.	0.8	2
54	Structure and spectral properties of cinnamoyl pyrones and their vinylogs. <i>Open Chemistry</i> , 2010, 8, 347-355.	1.9	5

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55	2-(4-Fluorophenyl)-3-hydroxy-4 <i>H</i> -chromen-4-one. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o3122-o3122.	0.2	6
56	Chemiluminogenic Properties of 10-Methyl-9-(phenoxy-carbonyl)acridinium Cations in Organic Environments. Journal of Physical Chemistry A, 2010, 114, 10550-10562.	2.5	22
57	2,2-Difluoro-4-phenyl-1,3,2-dioxaborolo[4,5- <i>c</i>]chromen-5-ium-2-ide. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o3354-o3355.	0.2	2
58	Potassium dihydrogen phosphate doped with organic complexes of rare-earth metals. Inorganic Materials, 2009, 45, 533-537.	0.8	2
59	pH dependent spectral properties and electronic structure of benzothiazol containing cyanine dyes. Dyes and Pigments, 2009, 80, 355-360.	3.7	15
60	Spectral features of substituted 9-(phenoxy-carbonyl)-acridines and their protonated and methylated cation derivatives. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 70, 394-402.	3.9	7
61	The properties of 4 <i>N,N</i> -dimethylamino-flavonol in the ground and excited states. Russian Journal of Physical Chemistry A, 2008, 82, 1464-1469.	0.6	6
62	Molecular and crystal structures of 4-hydroxy derivative of (3 <i>R</i> ,6 <i>R</i>)-3-methyl-6-isopropyl-2-(4-phenylbenzylidene)cyclohexanone. Crystallography Reports, 2008, 53, 455-461.	0.6	0
63	Doping of KDP single crystals with cerium: Growth and optical properties. Crystallography Reports, 2008, 53, 708-712.	0.6	5
64	New (S)-1-phenylethylamine- α -arylidene derivatives as chiral dopants to liquid crystalline systems. Liquid Crystals, 2007, 34, 1193-1200.	2.2	4
65	Complexation effect of β -cyclodextrin on a hydroxyflavone derivative: Formation of excluded and included anions. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 188, 74-82.	3.9	37
66	Tautomerism of acridin-9-amines substituted at the exocyclic nitrogen atom: Spectroscopic investigations and theoretical studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 66, 1016-1023.	3.9	13
67	Two polymorphs of 2-(4-chlorophenyl)-4-methylchromenium perchlorate. Acta Crystallographica Section C: Crystal Structure Communications, 2007, 63, o626-o630.	0.4	2
68	Molecular complexes of 4,10-dihydrothieno[3,2- <i>b</i>]pyrimido[2,1- <i>a</i>]isoindol-4-ones with β -cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 415-417.	1.6	0
69	Fluorescence behavior of chromones containing several protolytic centers. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 65, 397-405.	3.9	11
70	Identification and Structural Assessment of Alkaline-Earth Metal Complexes with Flavonols by FAB Mass Spectrometry. Russian Journal of General Chemistry, 2004, 74, 438-445.	0.8	9
71	Tuning the mechanism of proton-transfer in a hydroxyflavone derivative. Chemical Physics Letters, 2003, 379, 53-59.	2.6	91
72	Stepwise interactions, sodium ion photoejection and proton-transfer inhibition in a crown-ether and proton-transfer dye. Chemical Physics Letters, 2003, 381, 519-525.	2.6	16

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73	Equilibre Ester Phosphorique, Hydroxyphosphorane Role des Liaisons Hydrogene, Acidite de Bronsted. Phosphorus, Sulfur and Silicon and the Related Elements, 2003, 178, 2117-2125.	1.6	3
74	Spectral and Acid-Base Features of 3,7-Dihydroxy-2,8-diphenyl-4H,6H-pyrano[3,2-g]chromene-4,6-dione (Diflavonol) A Potential Probe for Monitoring the Properties of Liquid Phases. Journal of Organic Chemistry, 2003, 68, 5860-5869.	3.2	15
75	Spirophosphoranes \pm -Cetoacides. Structure Cristalline. Induction Asymetrique. Phosphorus, Sulfur and Silicon and the Related Elements, 2002, 177, 1255-1269.	1.6	4
76	Photochemistry of pyrylium compounds: excitation-induced rearrangement of a molecule-solvent complex. , 2002, 4749, 376.		0
77	Synthesis and Structure of Borane Complexes with 3-Hydroxyflavone. Chemistry of Heterocyclic Compounds, 2002, 38, 1412-1418.	1.2	5
78	SPIROPHOSPHORANES MACROCYCLIQUES PREPARES A PARTIR D'ISOPROPYLIDENE-MANNITOLS. Phosphorus, Sulfur and Silicon and the Related Elements, 2001, 174, 177-192.	1.6	3
79	Absorption and fluorescent properties of pyrylium compounds: I. The nature of electronic transitions and structural rearrangement in the excited state. Optics and Spectroscopy (English Translation of) Tj ETQq1 1 0.704314 rgBT /Overlo		
80	Absorption and fluorescent properties of pyrylium compounds: II. Spectra and cross sections for absorption from the ground and excited states of the structurally rearranged form. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2000, 89, 712-720.	0.6	0
81	Flavonols as metal-ion chelators: complex formation with Mg ²⁺ and Ba ²⁺ cations in the excited state. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 127, 89-100.	3.9	81
82	UV/vis absorption and fluorescence spectroscopic study of some new 4-hydroxy-7-methoxycoumarin derivatives. Part I: Effect of substitution by a benzo-1,4-dioxanyl or an ethyl furoate group in the 3-position. New Journal of Chemistry, 1999, 23, 923-927.	2.8	16
83	Flavonols and Crown-Flavonols as Metal Cation Chelators. The Different Nature of Ba ²⁺ and Mg ²⁺ Complexes. Journal of Physical Chemistry A, 1998, 102, 5907-5914.	2.5	151
84	Strong interaction between a fluorescent β -diketone derivative and alkali and alkaline earth cations in solution studied by spectrophotometry. New Journal of Chemistry, 1998, 22, 1531-1538.	2.8	17
85	Laser-heated pedestal growth and optical properties of Nd ³⁺ -doped Li ⁺ xNb ⁵⁺ xWxO3 single-crystal fibers. Journal of Luminescence, 1996, 69, 257-263.	3.1	3