Nikolay E Polyakov

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4151517/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Mechanistic Insights of Chelator Complexes with Essential Transition Metals: Antioxidant/Pro-Oxidant Activity and Applications in Medicine. International Journal of Molecular Sciences, 2022, 23, 1247.	4.1	23
2	Ascorbate-and iron-driven redox activity of Dp44mT and Emodin facilitates peroxidation of micelles and bicelles. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130078.	2.4	7
3	The Interplay of Ascorbic Acid with Quinones-Chelators—Influence on Lipid Peroxidation: Insight into Anticancer Activity. Antioxidants, 2022, 11, 376.	5.1	9
4	Photoinduced Oxidation of Lipid Membranes in the Presence of the Nonsteroidal Anti-Inflammatory Drug Ketoprofen. Membranes, 2022, 12, 251.	3.0	7
5	Chiral Linked Systems as a Model for Understanding D-Amino Acids Influence on the Structure and Properties of Amyloid Peptides. International Journal of Molecular Sciences, 2022, 23, 3060.	4.1	4
6	Optical Configuration Effect on the Structure and Reactivity of Diastereomers Revealed by Spin Effects and Molecular Dynamics Calculations. International Journal of Molecular Sciences, 2022, 23, 38.	4.1	3
7	Stereoselectivity of Interaction of Nonsteroidal Anti-Inflammatory Drug S-Ketoprofen with L/D-Tryptophan in Phospholipid Membranes. Membranes, 2022, 12, 460.	3.0	6
8	Preparation of DNC Solid Dispersion by a Mechanochemical Method with Glycyrrhizic Acid and Polyvinylpyrrolidone to Enhance Bioavailability and Activity. Polymers, 2022, 14, 2037.	4.5	2
9	Mechanically induced solvent-free esterification method at room temperature. RSC Advances, 2021, 11, 5080-5085.	3.6	4
10	pH-Sensitive Glycyrrhizin Based Vesicles for Nifedipine Delivery. Molecules, 2021, 26, 1270.	3.8	11
11	Study of supramolecular complex of nifedipine with arabinogalactan on Wistar and ISIAH rats. Therapeutic Delivery, 2021, 12, 119-131.	2.2	4
12	Solubility, Permeability, Anti-Inflammatory Action and In Vivo Pharmacokinetic Properties of Several Mechanochemically Obtained Pharmaceutical Solid Dispersions of Nimesulide. Molecules, 2021, 26, 1513.	3.8	12
13	Research on Preparation of 5-ASA Colon-Specific Hydrogel Delivery System without Crosslinking Agent by Mechanochemical Method. Pharmaceutical Research, 2021, 38, 693-706.	3.5	11
14	Carotenoids: Importance in Daily Life—Insight Gained from EPR and ENDOR. Applied Magnetic Resonance, 2021, 52, 1093-1112.	1.2	9
15	Role of Chiral Configuration in the Photoinduced Interaction of D- and L-Tryptophan with Optical Isomers of Ketoprofen in Linked Systems. International Journal of Molecular Sciences, 2021, 22, 6198.	4.1	5
16	Preparation of astaxanthin micelles self-assembled by a mechanochemical method from hydroxypropyl β-cyclodextrin and glyceryl monostearate with enhanced antioxidant activity. International Journal of Pharmaceutics, 2021, 605, 120799.	5.2	18
17	Antioxidant Activity of Deferasirox and Its Metal Complexes in Model Systems of Oxidative Damage: Comparison with Deferiprone. Molecules, 2021, 26, 5064.	3.8	10
18	Self-assembled nanocapsules of celery (Apium graveolens Linn) seed oil: Mechanochemical preparation, characterization and urate-lowering activity. Journal of Drug Delivery Science and Technology, 2021, 66, 102810.	3.0	1

Nikolay E Polyakov

#	Article	IF	CITATIONS
19	Mechanism of the enhancing effect of glycyrrhizin on nifedipine penetration through a lipid membrane. Journal of Molecular Liquids, 2021, 344, 117759.	4.9	12
20	Arabinogalactan and glycyrrhizin based nanopesticides as novel delivery systems for plant protection. Environmental Science and Pollution Research, 2020, 27, 5864-5872.	5.3	17
21	Effect of Glycyrrhizic Acid and Arabinogalactan on the Membrane Potential of Rat Thymocytes Studied by Potential-Sensitive Fluorescent Probe. Journal of Membrane Biology, 2020, 253, 343-356.	2.1	10
22	Trying to Solve the Puzzle of the Interaction of Ascorbic Acid and Iron: Redox, Chelation and Therapeutic Implications. Medicines (Basel, Switzerland), 2020, 7, 45.	1.4	43
23	Experimental and Theoretical Study of Emodin Interaction with Phospholipid Bilayer and Linoleic Acid. Applied Magnetic Resonance, 2020, 51, 951-960.	1.2	6
24	Stereoselectivity of Electron and Energy Transfer in the Quenching of (S/R)-Ketoprofen-(S)-Tryptophan Dyad Excited State. International Journal of Molecular Sciences, 2020, 21, 5370.	4.1	9
25	Redox Interactions of Vitamin C and Iron: Inhibition of the Pro-Oxidant Activity by Deferiprone. International Journal of Molecular Sciences, 2020, 21, 3967.	4.1	88
26	New insights into the nature of short-lived paramagnetic intermediates of ketoprofen. Photo-CIDNP study. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 392, 112383.	3.9	8
27	Glycyrrhizin-induced changes in phospholipid dynamics studied by 1H NMR and MD simulation. Archives of Biochemistry and Biophysics, 2020, 686, 108368.	3.0	21
28	Supramolecular Carotenoid Complexes of Enhanced Solubility and Stability—The Way of Bioavailability Improvement. Molecules, 2019, 24, 3947.	3.8	51
29	Preparation, physicochemical and pharmacological study of curcumin solid dispersion with an arabinogalactan complexation agent. International Journal of Biological Macromolecules, 2019, 128, 158-166.	7.5	30
30	NMR investigation of photoinduced chiral inversion in (R)/(S)-naproxen–(S)-tryptophan linked system. Mendeleev Communications, 2019, 29, 260-262.	1.6	5
31	Glycyrrhizic acid as a multifunctional drug carrier – From physicochemical properties to biomedical applications: A modern insight on the ancient drug. International Journal of Pharmaceutics, 2019, 559, 271-279.	5.2	122
32	Glycyrrhizin-Assisted Transport of Praziquantel Anthelmintic Drug through the Lipid Membrane: An Experiment and MD Simulation. Molecular Pharmaceutics, 2019, 16, 3188-3198.	4.6	34
33	Effective inhibition of copper-catalyzed production of hydroxyl radicals by deferiprone. Journal of Biological Inorganic Chemistry, 2019, 24, 331-341.	2.6	27
34	Spin effects as a tool to study photoinduced processes in (S/R)-ketoprofen-(S)-N-methylpyrrolidine dyads. Journal of Chemical Physics, 2019, 151, 245101.	3.0	8
35	Disodium salt of glycyrrhizic acid – A novel supramolecular delivery system for anthelmintic drug praziquantel. Journal of Drug Delivery Science and Technology, 2019, 50, 66-77.	3.0	36
36	Redox-Active Quinone Chelators: Properties, Mechanisms of Action, Cell Delivery, and Cell Toxicity. Antioxidants and Redox Signaling, 2018, 28, 1394-1403.	5.4	31

#	Article	IF	CITATIONS
37	Preparation of curcumin self-micelle solid dispersion with enhanced bioavailability and cytotoxic activity by mechanochemistry. Drug Delivery, 2018, 25, 198-209.	5.7	102
38	Mechanochemical preparation of kaempferol intermolecular complexes for enhancing the solubility and bioavailability. Drug Development and Industrial Pharmacy, 2018, 44, 1924-1932.	2.0	15
39	Atorvastatin calcium inclusion complexation with polysaccharide arabinogalactan and saponin disodium glycyrrhizate for increasing of solubility and bioavailability. Drug Delivery and Translational Research, 2018, 8, 1200-1213.	5.8	18
40	Physicochemical and Toxic Properties of Novel Genipin Drug Delivery Systems Prepared by Mechanochemistry. Current Drug Delivery, 2018, 15, 727-736.	1.6	4
41	Supramolecular Complex of Ibuprofen with Larch Polysaccharide Arabinogalactan: Studies on Bioavailability and Pharmacokinetics. European Journal of Drug Metabolism and Pharmacokinetics, 2017, 42, 431-440.	1.6	24
42	Retinal accumulation of zeaxanthin, lutein, and β-carotene in mice deficient in carotenoid cleavage enzymes. Experimental Eye Research, 2017, 159, 123-131.	2.6	46
43	Mechanism of Ðj-Еcyclization of alkynylanthraquinones into thienoanthraquinones with the participation of sodium sulfide. Tetrahedron, 2017, 73, 6334-6340.	1.9	2
44	Enhanced solubility and bioavailability of simvastatin by mechanochemically obtained complexes. International Journal of Pharmaceutics, 2017, 534, 108-118.	5.2	64
45	Natural Poly- and Oligosaccharides as Novel Delivery Systems for Plant Protection Compounds. Journal of Agricultural and Food Chemistry, 2017, 65, 6582-6587.	5.2	13
46	Effect of natural polysaccharides and oligosaccharides on the permeability of cell membranes. Russian Chemical Bulletin, 2017, 66, 129-135.	1.5	29
47	Light-Stimulated Generation of Free Radicals by Quinones-Chelators. Zeitschrift Fur Physikalische Chemie, 2017, 231, 369-389.	2.8	8
48	Photo Protection of Haematococcus pluvialis Algae by Astaxanthin: Unique Properties of Astaxanthin Deduced by EPR, Optical and Electrochemical Studies. Antioxidants, 2017, 6, 80.	5.1	28
49	Investigation the inclusion complexes of valsartan with polysaccharide arabinogalactan from larch Larix sibirica and (2-hydroxypropyl)-β-cyclodextrin: preparation, characterization and physicochemical properties. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2016, 85, 93-104.	1.6	10
50	Spectroscopic and molecular dynamics characterization of glycyrrhizin membrane-modifying activity. Colloids and Surfaces B: Biointerfaces, 2016, 147, 459-466.	5.0	66
51	Improving the Efficiency and Safety of Aspirin by Complexation with the Natural Polysaccharide Arabinogalactan. Current Drug Delivery, 2016, 13, 582-589.	1.6	7
52	Membrane-modifying activity of glycyrrhizic acid. Russian Chemical Bulletin, 2015, 64, 1555-1559.	1.5	23
53	Water soluble biocompatible vesicles based on polysaccharides and oligosaccharides inclusion complexes for carotenoid delivery. Carbohydrate Polymers, 2015, 128, 207-219.	10.2	56
54	Structure of dimers of glycyrrhizic acid in water and their complexes with cholesterol: Molecular dynamics simulation. Journal of Structural Chemistry, 2015, 56, 67-76.	1.0	21

#	Article	IF	CITATIONS
55	Solubilization and stabilization of macular carotenoids by water soluble oligosaccharides and polysaccharides. Archives of Biochemistry and Biophysics, 2015, 572, 58-65.	3.0	59
56	Inhibition of Fe2+- and Fe3+- induced hydroxyl radical production by the iron-chelating drug deferiprone. Free Radical Biology and Medicine, 2015, 78, 118-122.	2.9	48
57	Polysaccharide arabinogalactan from larch <i>Larix sibirica</i> as carrier for molecules of salicylic and acetylsalicylic acid: preparation, physicochemical and pharmacological study. Drug Delivery, 2015, 22, 400-407.	5.7	35
58	A Physicochemical and Pharmacological Study of the Newly Synthesized Complex of Albendazole and the Polysaccharide Arabinogalactan from Larch Wood. Current Drug Delivery, 2015, 12, 477-490.	1.6	29
59	Effect of glycyrrhizic acid on hemolysis of red blood cells and properties of cell membranes. Russian Chemical Bulletin, 2014, 63, 1201-1204.	1.5	13
60	Photoinduced transformation of iron chelator deferiprone: Possible implications in drug metabolism and toxicity. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 289, 14-21.	3.9	8
61	Photochemical and Optical Properties of Water-Soluble Xanthophyll Antioxidants: Aggregation vs Complexation. Journal of Physical Chemistry B, 2013, 117, 10173-10182.	2.6	58
62	Time-Resolved Fluorescence Study of Exciplex Formation in Diastereomeric Naproxen–Pyrrolidine Dyads. Journal of Physical Chemistry B, 2013, 117, 16206-16211.	2.6	7
63	EPR Study of the Astaxanthin <i>n</i> -Octanoic Acid Monoester and Diester Radicals on Silica–Alumina. Journal of Physical Chemistry B, 2012, 116, 13200-13210.	2.6	15
64	Spin effects in intramolecular electron transfer in naproxen-N-methylpyrrolidine dyad. Chemical Physics Letters, 2011, 516, 51-55.	2.6	9
65	NMR Relaxation Study of Cholesterol Binding with Plant Metabolites. Applied Magnetic Resonance, 2011, 41, 283-294.	1.2	19
66	Glycyrrhizic Acid as a Novel Drug Delivery Vector: Synergy of Drug Transport and Efficacy. The Open Conference Proceedings Journal, 2011, 2, 64-72.	0.6	49
67	Carotenoid Radicals: Cryptochemistry of Natural Colorants. Chemistry Letters, 2010, 39, 148-155.	1.3	23
68	CIDNP and EPR Study of Phototransformation of Lappaconitine Derivatives in Solution. Journal of Physical Chemistry B, 2010, 114, 4646-4651.	2.6	8
69	Free Radical Formation in Novel Carotenoid Metal Ion Complexes of Astaxanthin. Journal of Physical Chemistry B, 2010, 114, 16968-16977.	2.6	59
70	Enhancement of the Photocatalytic Activity of TiO ₂ Nanoparticles by Water-Soluble Complexes of Carotenoids. Journal of Physical Chemistry B, 2010, 114, 14200-14204.	2.6	30
71	Measuring Ti(III)â^'Carotenoid Radical Interspin Distances in TiMCM-41 by Pulsed EPR Relaxation Enhancement Method. Journal of Physical Chemistry B, 2009, 113, 8704-8716.	2.6	5
72	Water Soluble Complexes of Carotenoids with Arabinogalactan. Journal of Physical Chemistry B, 2009, 113, 275-282.	2.6	51

#	Article	IF	CITATIONS
73	Phototransformation products of the alkaloid lappaconitine: Multinuclear NMR study. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 197, 290-294.	3.9	5
74	Complex of Calcium Receptor Blocker Nifedipine with Glycyrrhizic Acid. Journal of Physical Chemistry B, 2008, 112, 4435-4440.	2.6	39
75	Elementary Steps of Enzymatic Oxidation of Nifedipine Catalyzed by Horseradish Peroxidase. Journal of Physical Chemistry B, 2006, 110, 21232-21237.	2.6	8
76	Hostâ^'Guest Complexes of Carotenoids with β-Glycyrrhizic Acid. Journal of Physical Chemistry B, 2006, 110, 6991-6998.	2.6	52
77	Paramagnetic intermediates in the photoinduced reaction between dodecamethylcyclohexasilane and 9,10-phenanthraquinone: Time-resolved CIDNP study. Journal of Organometallic Chemistry, 2006, 691, 1411-1418.	1.8	3
78	Antioxidant and redox properties of supramolecular complexes of carotenoids with β-glycyrrhizic acid. Free Radical Biology and Medicine, 2006, 40, 1804-1809.	2.9	55
79	IMPROVED METHOD FOR THE CYCLIZATION OF <i>ortho</i> -ALKYNYLBENZENEDIAZONIUM SALTS. Organic Preparations and Procedures International, 2006, 38, 476-480.	1.3	6
80	Complexation of Lappaconitine with Glycyrrhizic Acid:Â Stability and Reactivity Studies. Journal of Physical Chemistry B, 2005, 109, 24526-24530.	2.6	42
81	β-Ionone cyclodextrins inclusion complexes. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 161, 261-267.	3.9	28
82	Electron transfer mediated geometrical photoisomerization of α,β-unsaturated ketones in the presence of electron donors in solution. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 153, 77-82.	3.9	3
83	Single electron transfer in the phototransformations of \hat{l}^2 -ionone in the presence of electron acceptors. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 128, 65-74.	3.9	10
84	Photoinitiated electron transfer interaction of all-trans retinal with electron donors and acceptors. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 107, 55-62.	3.9	8
85	The mechanism of oxidation of NADH analogues 4. Photooxidation of N-acetyl-substituted 1,4-dihydropyridine in the presence of quinones. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 111, 61-64.	3.9	9
86	The mechanisms of the oxidation of NADH analogues 1. Photochemical oxidation of N-unsubstituted 1,4-dihydropyridines by various acceptors. Journal of Photochemistry and Photobiology A: Chemistry, 1993, 73, 151-157.	3.9	28
87	The mechanisms of the oxidation of NADH analogues 2. N-Methyl-substituted 1,4-dihydropyridines. Journal of Photochemistry and Photobiology A: Chemistry, 1993, 73, 159-163.	3.9	24
88	The mechanisms of oxidation of NADH analogues 3. Stimulated nuclear polarization (SNP) and chemically induced dynamic nuclear polarization (CIDNP) in low magnetic fields in photo-oxidation reactions of 1,4-dihydropyridines with quinones. Journal of Photochemistry and Photobiology A: Chemistry, 1993, 74, 75-79.	3.9	17
89	Study of chemically induced dynamic nuclear polarization field dependencies in the photoreduction of quinones by amines. Journal of Photochemistry and Photobiology A: Chemistry, 1990, 55, 43-51.	3.9	7
90	Application of the semiclassical approximation for the description of CIDNP effects in low magnetic fields in real multinuclear radical pairs with non-equivalent nuclei. Chemical Physics Letters, 1987, 136, 31-34.	2.6	4

#	Article	IF	CITATIONS
91	Application of the semiclassical description of hyperfine interaction to studies of the dependence of the CIDNP effect on an external magnetic field. Chemical Physics Letters, 1986, 129, 357-361.	2.6	11
92	CIDNP-detected ESR of radical pairs in the photolysis of quinones. Chemical Physics Letters, 1985, 117, 220-223.	2.6	25
93	Mutual effects of nuclei on 1H CIDNP formation in benzophenone photoreduction. Chemical Physics Letters, 1985, 114, 566-570.	2.6	3
94	Radiofrequency labelling of molecules in chemical reactions. Chemical Physics Letters, 1983, 96, 108-113.	2.6	10
95	An investigation of the mechanism of the reation of allyltriethylstannane with bromotrichloromethane by radiofrequency probing and chemically induced dynamic nuclear polarization (CIDNP). Journal of Organometallic Chemistry, 1983, 259, 295-300.	1.8	8
96	Peculiarities of Electron Transfer in Chiral Linked Systems. , 0, , .		2

Peculiarities of Electron Transfer in Chiral Linked Systems. , 0, , . 96