

Tatiana I Gorbunova

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

342
citations

8
h-index

13
g-index

89
ext. papers

387
ext. citations

1.7
avg, IF

3.29
L-index

#	Paper	IF	Citations
87	Modeling of the Biphenyl Dioxygenase Subunit Structure of Rhodococcus Strains and Features of the Destruction of Chlorinated and Hydroxylated Biphenyls at Different Temperatures. <i>Applied Biochemistry and Microbiology</i> , 2021 , 57, 732-742	1.1	0
86	Biodegradation of trichlorobiphenyls and their hydroxylated derivatives by Rhodococcus-strains. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124471	12.8	5
85	Thermodynamic Simulation for Interaction of Polychlorinated Biphenyls with Potassium Hydroxide in Polyalkanolamines. <i>Russian Journal of Applied Chemistry</i> , 2021 , 94, 330-336	0.8	
84	Thermo-Oxidative Degradation of Hydroxypolychlorobiphenyls. <i>Russian Journal of General Chemistry</i> , 2021 , 91, 1540-1545	0.7	1
83	Preparation of a New Material Based on Epoxy Oligomers for Forming Corrosion-Protective Coatings. <i>Russian Journal of Applied Chemistry</i> , 2020 , 93, 400-405	0.8	2
82	Synthesis and thermal decomposition of alkoxy-, hydroxy-derivatives of Sovol polychlorobiphenyls technical mixture. <i>Journal of Material Cycles and Waste Management</i> , 2020 , 22, 1552-1560	3.4	2
81	Reactions of Tetra- and Pentachlorobiphenyls with Alkali in 2-Aminoethanol Medium. <i>Russian Journal of General Chemistry</i> , 2020 , 90, 2255-2257	0.7	2
80	Thermodynamic Aspects for the Reaction of Polychlorinated Biphenyls with Sodium Metoxide in Ethanol and Dimethyl Sulfoxide Solution. <i>Doklady Chemistry</i> , 2020 , 495, 186-190	0.8	
79	Thermal Decomposition of Polychlorobiphenyls and Their Derivatives. <i>Russian Journal of Applied Chemistry</i> , 2020 , 93, 1254-1260	0.8	
78	Spatiotemporal aspects of interannual changes precipitation in the crimea. <i>Journal of Arid Environments</i> , 2020 , 183, 104280	2.5	4
77	Local environment of CdS nanoparticles incorporated into anatase/brookite matrix via sol-gel route: HRTEM, Raman spectroscopy and MD simulation. <i>Materials Today Communications</i> , 2020 , 25, 101465	2.5	2
76	Biodegradability of hydroxylated derivatives of commercial polychlorobiphenyls mixtures by Rhodococcus-strains. <i>Journal of Hazardous Materials</i> , 2020 , 400, 123328	12.8	3
75	Pyrolysis of Derivatives of Technical Mixtures of Polychlorinated Biphenyls. <i>Doklady Chemistry</i> , 2019 , 487, 230-234	0.8	2
74	Thermodynamic Modeling of the Stage of Polychlorinated Biphenyls Preparation to Thermal Decomposition. <i>Russian Journal of General Chemistry</i> , 2019 , 89, 1836-1842	0.7	1
73	Uncatalyzed Hydrodechlorination of Dichlorobiphenyls. <i>Russian Journal of Organic Chemistry</i> , 2019 , 55, 988-990	0.7	2
72	Bacterial Degradation of a Mixture of Hydroxy and Methoxy Polychlorinated Biphenyls. <i>Doklady Chemistry</i> , 2019 , 486, 133-136	0.8	2
71	Reagent Pretreatment of Polychlorobiphenyls prior to Breakdown. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1039-1044	0.8	4

70	Photolysis of polychlorobiphenyls in the presence of nanocrystalline TiO ₂ and CdS/TiO ₂ . <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 126, 1115-1134	1.6	3
69	Low-Temperature Sol-Gel Synthesis and Photoactivity of Nanocrystalline TiO ₂ with the Anatase/Brookite Structure and an Amorphous Component. <i>Kinetics and Catalysis</i> , 2019 , 60, 325-336	1.5	5
68	Hydroxylation of Polychlorinated Biphenyls in Polyalkanolamines Medium. <i>Russian Journal of General Chemistry</i> , 2019 , 89, 717-721	0.7	1
67	Study of structural, spectroscopic and photo-oxidation properties of in-situ synthesized Sc-doped titania. <i>Journal of Molecular Liquids</i> , 2019 , 284, 29-38	6	1
66	Immobilization of <i>Rhodococcus wratislaviensis</i> Strain KT112-7 Blls in Order to Increase Efficiency of Biodegradation of Modified Polychlorinated Biphenyls. <i>Biotehnologiya</i> , 2019 , 58-70	0.4	0
65	Nanocrystalline TiO ₂ doped by small amount of pre-synthesized colloidal CdS nanoparticles for photocatalytic degradation of 1,2,4-trichlorobenzene. <i>Sustainable Chemistry and Pharmacy</i> , 2019 , 11, 1-11	3.9	3
64	Optimization of nucleophilic dechlorination of polychlorinated biphenyls: calculation and experiment. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 3265-3274	3.3	4
63	Features of Sulfonation of Polychlorinated Biphenyl Congeners. <i>Russian Journal of General Chemistry</i> , 2018 , 88, 257-261	0.7	1
62	Symmetrical Fluorinated Dialkyl Carbonates as Precursors of Promising Materials. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 657-662	0.8	3
61	Facile, rapid and efficient doping of amorphous TiO ₂ by pre-synthesized colloidal CdS quantum dots. <i>Journal of Alloys and Compounds</i> , 2017 , 706, 205-214	5.7	9
60	Synthesis of symmetrical disulfides by reaction of fluorine-containing thiiranes with cyclic amines. <i>Russian Journal of Organic Chemistry</i> , 2017 , 53, 514-519	0.7	3
59	Optimization of the reaction of polychlorobiphenyls with a binucleophile by thermodynamic modeling. <i>Russian Journal of Applied Chemistry</i> , 2017 , 90, 915-922	0.8	4
58	A comparative study of the reactions of fluorinated oxo- and thiiranes with acyl chlorides. <i>Russian Chemical Bulletin</i> , 2017 , 66, 1011-1017	1.7	1
57	Optimization of the chemical stage of pretreatment of technical polychlorobiphenyls for destruction. <i>Doklady Chemistry</i> , 2017 , 476, 206-210	0.8	8
56	The interaction of low- and medium-chlorinated biphenyls with sodium methoxide with the account for thermodynamic modeling. <i>Russian Journal of General Chemistry</i> , 2017 , 87, 934-939	0.7	3
55	Mechanism of the formation of photosensitive nanostructured TiO ₂ with low content of CdS nanoparticles. <i>Doklady Physical Chemistry</i> , 2016 , 467, 56-59	0.8	1
54	Photoactivity of TiO ₂ /CdS and SiO ₂ /CdS hybrid nanostructured systems in the partial oxidation of ethanol under irradiation with visible light. <i>Kinetics and Catalysis</i> , 2015 , 56, 515-522	1.5	2
53	Effect of addition of esters of fatty acids on the microstructure and properties of sintered NdBeB magnets produced by PLP. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 386, 134-140	2.8	5

52	Designing new adhesive materials based on epoxy oligomers filled with organic compounds. <i>Polymer Science - Series D</i> , 2015 , 8, 149-152	0.4	3
51	Synthesis and solar light catalytic properties of titania/zinc sulfide hybrid nanostructures. <i>Catalysis Communications</i> , 2015 , 68, 61-66	3.2	31
50	Investigation of polychlorinated biphenyls congeners in the Triklorbifenil technical mixture. <i>Russian Journal of General Chemistry</i> , 2015 , 85, 1929-1933	0.7	7
49	Features of polychlorinated biphenyls nitration. <i>Russian Journal of General Chemistry</i> , 2015 , 85, 1611-1616	1.67	1
48	Preparation and antifrictional properties of surface modified hybrid fluorine-containing silica particles. <i>Applied Surface Science</i> , 2015 , 326, 19-26	6.7	8
47	Specific features of surface modification of activated nanosize copper particles with 1,2-oxiranes. <i>Russian Journal of Applied Chemistry</i> , 2015 , 88, 1395-1402	0.8	1
46	Synthesis and anticorrosive properties of alkylammonium polyfluoro-3-(ethoxycarbonyl)-2-oxo-2h-chromen-4-olates. <i>Russian Journal of Organic Chemistry</i> , 2014 , 50, 66-71	0.7	1
45	Modification of adhesive materials based on epoxy oligomers with fluorinated organic compounds. <i>Russian Journal of Applied Chemistry</i> , 2014 , 87, 474-479	0.8	7
44	Modification of the silica particles surface with perfluoroalkylmethyloxiranes. <i>Russian Journal of General Chemistry</i> , 2014 , 84, 1265-1272	0.7	2
43	Reactivity of polychlorinated biphenyls in nucleophilic and electrophilic substitutions. <i>Journal of Hazardous Materials</i> , 2014 , 278, 491-9	12.8	18
42	An interdisciplinary approach to the problem of neutralization of man-made polychlorinated biphenyls. <i>Doklady Chemistry</i> , 2014 , 454, 19-24	0.8	11
41	Polychlorinated biphenyls: correlation between experimental data and quantum-chemical simulation. <i>Russian Journal of General Chemistry</i> , 2014 , 84, 486-495	0.7	5
40	Thermal desulfurization of (alkoxymethyl)thiiranes. <i>Russian Journal of General Chemistry</i> , 2014 , 84, 2120-2124	2.124	5
39	Antifriction properties of oils with thickeners based on modified fluoroalkyl-containing silica particles. <i>Russian Journal of Applied Chemistry</i> , 2014 , 87, 1114-1118	0.8	1
38	Bacterial degradation of a mixture obtained through the chemical modification of polychlorinated biphenyls by polyethylene glycols. <i>Applied Biochemistry and Microbiology</i> , 2014 , 50, 722-729	1.1	7
37	Inhibitory activity of fluorine-containing quaternary ammonium salts comprising an N-methylpiperazinyl moiety. <i>Russian Journal of Applied Chemistry</i> , 2013 , 86, 992-996	0.8	6
36	Thermodynamic modeling of the reaction of polychlorinated biphenyls with sodium methoxide. <i>Russian Journal of General Chemistry</i> , 2013 , 83, 893-900	0.7	8
35	Water-soluble 2-aminomethylidene-1,3-dicarbonyl compounds as new chalcogenide colloidal stabilizers. <i>Russian Journal of Organic Chemistry</i> , 2013 , 49, 315-320	0.7	5

34	Synthesis and properties of water-soluble 2-aminomethylidene derivatives of 1,3-dicarbonyl compounds. <i>Russian Journal of General Chemistry</i> , 2013 , 83, 1330-1335	0.7	4
33	Synthesis and tribological properties of new fluoro-containing oligomers. <i>Russian Journal of Applied Chemistry</i> , 2013 , 86, 1767-1772	0.8	1
32	Oxidation of highly chlorinated benzenes and biphenyls with potassium persulfate in the presence of perfluorinated radicals. <i>Russian Journal of General Chemistry</i> , 2013 , 83, 1678-1686	0.7	1
31	Aggregative stability of the CdS nanoparticles-H ₂ O colloidal dispersion system in the presence of surfactants. <i>Doklady Chemistry</i> , 2012 , 443, 86-90	0.8	
30	Reactivity features of polychlorobiphenyl congeners in the nucleophilic substitution reactions. <i>Russian Journal of General Chemistry</i> , 2012 , 82, 138-143	0.7	10
29	Reaction of polychlorinated biphenyls and benzenes with neopentyl glycol. <i>Russian Journal of General Chemistry</i> , 2012 , 82, 428-435	0.7	3
28	A new application of derivatives of polychlorobiphenyls and polyethylene glycols. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 1622-1626	0.8	5
27	Chemical design of the CdS-TiO ₂ composite photocatalyst. <i>Doklady Physical Chemistry</i> , 2012 , 447, 207-209	0.8	1
26	Antifriction properties of new fluorine-containing derivatives of natural graphite. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 102-107	0.8	1
25	Antifriction properties of fluorine-containing poly(ethylene glycol) esters. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 267-271	0.8	
24	A study of the physico-chemical features of the [(perfluoroalkyl)methyl]oxirane amino derivatives based on the hexafluoropropylene oxide trimer. <i>Russian Journal of General Chemistry</i> , 2011 , 81, 1829-1833	0.7	3
23	Synthesis and inhibiting capacity of new fluorine-containing quaternary ammonium salts. <i>Russian Journal of Applied Chemistry</i> , 2011 , 84, 972-977	0.8	3
22	Chemical methods of transformation of polychlorobiphenyls. <i>Russian Chemical Reviews</i> , 2010 , 79, 511-530	0.8	29
21	Synthesis and properties of epoxy-anhydride polymers modified with polyfluoroalkyl-substituted oxiranes in the course of curing. <i>Russian Journal of Applied Chemistry</i> , 2010 , 83, 723-727	0.8	4
20	Transformations of 4,4,5,5,6,6,7,7,7-nonafluoro-2-iodoheptyl glycidyl ether upon the action of nucleophiles and reducing agents. <i>Russian Chemical Bulletin</i> , 2009 , 58, 1224-1227	1.7	1
19	Liquid-phase catalytic hydrodechlorination of aromatic chloro derivatives with metal nanopowders. <i>Russian Chemical Bulletin</i> , 2009 , 58, 1321-1324	1.7	4
18	Synthesis of novel perfluoroalkyl-containing polyethers. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 438-443	1.1	17
17	Isomerism and tautomerism of 5-fluoroalkyl-substituted 3-acetyldihydrofuran-2(3H)-ones. <i>Russian Journal of General Chemistry</i> , 2009 , 79, 800-807	0.7	

16	One-step synthesis of epoxy(perfluoroalkyl)alkenes. <i>Russian Journal of Organic Chemistry</i> , 2009 , 45, 491-495	0.7	5
15	Synthesis and structure of fluorine-containing 3-pyrazolin-5-ones. <i>Russian Journal of Organic Chemistry</i> , 2009 , 45, 1670-1674	0.7	0
14	Reactions of [2-iodo-3-(perfluoroalkyl)propyl]glycidyl ethers with alcohols under basic conditions. <i>Russian Chemical Bulletin</i> , 2008 , 57, 2324-2327	1.7	2
13	Synthesis and GC-MS study of fluorinated esters derived from thrimethylolpropane. <i>Russian Journal of General Chemistry</i> , 2008 , 78, 1701-1706	0.7	0
12	Features of reaction between fluorine-containing glycidyl ethers and alcohols in basic medium. <i>Russian Journal of Organic Chemistry</i> , 2007 , 43, 656-659	0.7	8
11	Addition of polyfluoroalkyl iodides to allyl glycidyl ether. <i>Russian Chemical Bulletin</i> , 2007 , 56, 1534-1536	1.7	6
10	Dehydroiodination of 2-iodo-3-(polyfluoroalkyl)propoxymethyloxiranes. <i>Russian Chemical Bulletin</i> , 2007 , 56, 2236-2238	1.7	1
9	Resistance of polyfluorinated complete esters of polyhydric alcohols to thermal oxidation: Comparison with nonfluorinated analogs. <i>Russian Journal of General Chemistry</i> , 2006 , 76, 1795-1800	0.7	2
8	Hydrophobicity and thermal stability of fluorinated pentaerythritol esters. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 861-864	0.8	
7	Synthesis of Polyfluorinated Ethers. <i>Russian Journal of Applied Chemistry</i> , 2005 , 78, 1646-1650	0.8	1
6	Reactivity of congeners of Sovol technical mixture of polychlorinated biphenyls toward sodium methoxide. <i>Russian Journal of Applied Chemistry</i> , 2004 , 77, 1523-1527	0.8	9
5	Reaction of Dinitropolychlorobiphenyls with O- and N-Nucleophiles as a New Route of Reprocessing Polychlorobiphenyls. <i>Russian Journal of Applied Chemistry</i> , 2002 , 75, 449-451	0.8	
4	Preparation of Amino Derivatives from Industrial Mixtures of Polychlorobiphenyls. <i>Russian Journal of Applied Chemistry</i> , 2001 , 74, 118-122	0.8	3
3	Synthesis of oxiranes based on 1,1,2,3,3-pentafluoro-1,5-hexadiene. <i>Russian Chemical Bulletin</i> , 1995 , 44, 1470-1473	1.7	2
2	Reaction of 1,1,2,3,3-pentafluoro-1,5-hexadiene with methanol in the presence of a base. <i>Russian Chemical Bulletin</i> , 1994 , 43, 711-712	1.7	
1	Isomerization of 1,1,2,3,3-pentafluoro-1,5-hexadiene upon reaction with fluoride ions. First example of sequential anionotropic and prototropic allylic rearrangements. <i>Bulletin of the Russian Academy of Sciences Division of Chemical Science</i> , 1992 , 41, 320-323		