Tatiana I Gorbunova

List of Publications by Year
in descending order

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87	439	932766 10	940134 16
papers	citations	h-index	g-index

89	89	89	313
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and solar light catalytic properties of titaniaâ€“cadmium sulfide hybrid nanostructures. Catalysis Communications, 2015, 68, 61-66.	1.6	38
2	Chemical methods of transformation of polychlorobiphenyls. Russian Chemical Reviews, 2010, 79, 511-530.	2.5	35
3	Reactivity of polychlorinated biphenyls in nucleophilic and electrophilic substitutions. Journal of Hazardous Materials, 2014, 278, 491-499.	6.5	22
4	Synthesis of novel perfluoroalkyl-containing polyethers. Journal of Fluorine Chemistry, 2009, 130, 438-443.	0.9	17
5	An interdisciplinary approach to the problem of neutralization of man-made polychlorinated biphenyls. Doklady Chemistry, 2014, 454, 19-24.	0.2	13
6	Facile, rapid and efficient doping of amorphous TiO 2 by pre-synthesized colloidal CdS quantum dots. Journal of Alloys and Compounds, 2017, 706, 205-214.	2.8	12
7	Features of reaction between fluorine-containing glycidyl ethers and alcohols in basic medium. Russian Journal of Organic Chemistry, 2007, 43, 656-659.	0.3	11
8	Reactivity features of polychlorobiphenyl congeners in the nucleophilic substitution reactions. Russian Journal of General Chemistry, 2012, 82, 138-143.	0.3	11
9	Optimization of the chemical stage of pretreatment of technical polychlorobiphenyls for destruction. Doklady Chemistry, 2017, 476, 206-210.	0.2	11
10	Nanocrystalline TiO2 doped by small amount of pre-synthesized colloidal CdS nanoparticles for photocatalytic degradation of 1,2,4-trichlorobenzene. Sustainable Chemistry and Pharmacy, 2019, 11, 1-11.	1.6	11
11	Biodegradation of trichlorobiphenyls and their hydroxylated derivatives by Rhodococcus-strains. Journal of Hazardous Materials, 2021, 409, 124471.	6.5	11
12	Reactivity of congeners of Sovol technical mixture of polychlorinated biphenyls toward sodium methoxide. Russian Journal of Applied Chemistry, 2004, 77, 1523-1527.	0.1	10
13	Low-Temperature Solâ€“Gel Synthesis and Photoactivity of Nanocrystalline TiO2 with the Anatase/Brookite Structure and an Amorphous Component. Kinetics and Catalysis, 2019, 60, 325-336.	0.3	10
14	Thermodynamic modeling of the reaction of polychlorinated biphenyls with sodium methoxide. Russian Journal of General Chemistry, 2013, 83, 893-900.	0.3	9
15	Effect of addition of esters of fatty acids on the microstructure and properties of sintered Ndâ€“Feâ€“B magnets produced by PLP. Journal of Magnetism and Magnetic Materials, 2015, 386, 134-140.	1.0	9
16	Investigation of polychlorinated biphenyls congeners in the Trikhlorbifenil technical mixture. Russian Journal of General Chemistry, 2015, 85, 1929-1933.	0.3	9
17	Bacterial degradation of a mixture obtained through the chemical modification of polychlorinated biphenyls by polyethylene glycols. Applied Biochemistry and Microbiology, 2014, 50, 722-729.	0.3	8
18	Preparation and antifrictional properties of surface modified hybrid fluorine-containing silica particles. Applied Surface Science, 2015, 326, 19-26.	3.1	8

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19	Addition of polyfluoroalkyl iodides to allyl glycidyl ether. Russian Chemical Bulletin, 2007, 56, 1534-1536.	0.4	7
20	One-step synthesis of epoxy(perfluoroalkyl)alkenes. Russian Journal of Organic Chemistry, 2009, 45, 491-495.	0.3	7
21	Modification of adhesive materials based on epoxy oligomers with fluorinated organic compounds. Russian Journal of Applied Chemistry, 2014, 87, 474-479.	0.1	7
22	Photolysis of polychlorobiphenyls in the presence of nanocrystalline TiO2 and CdS/TiO2. Reaction Kinetics, Mechanisms and Catalysis, 2019, 126, 1115-1134.	0.8	7
23	Biodegradability of hydroxylated derivatives of commercial polychlorobiphenyls mixtures by Rhodococcus-strains. Journal of Hazardous Materials, 2020, 400, 123328.	6.5	7
24	A new application of derivatives of polychlorobiphenyls and polyethylene glycols. Russian Journal of Applied Chemistry, 2012, 85, 1622-1626.	0.1	6
25	Inhibitory activity of fluorine-containing quaternary ammonium salts comprising an N-methylpiperazinyl moiety. Russian Journal of Applied Chemistry, 2013, 86, 992-996.	0.1	6
26	Designing new adhesive materials based on epoxy oligomers filled with organic compounds. Polymer Science - Series D, 2015, 8, 149-152.	0.2	6
27	Spatiotemporal aspects of interannual changes precipitation in the crimea. Journal of Arid Environments, 2020, 183, 104280.	1.2	6
28	Water-soluble 2-aminomethylidene-1,3-dicarbonyl compounds as new chalcogenide colloidal stabilizers. Russian Journal of Organic Chemistry, 2013, 49, 315-320.	0.3	5
29	Synthesis and properties of water-soluble 2-aminomethylidene derivatives of 1,3-dicarbonyl compounds. Russian Journal of General Chemistry, 2013, 83, 1330-1335.	0.3	5
30	Thermal desulfurization of (alkoxymethyl)thiiranes. Russian Journal of General Chemistry, 2014, 84, 2120-2124.	0.3	5
31	Polychlorinated biphenyls: correlation between experimental data and quantum-chemical simulation. Russian Journal of General Chemistry, 2014, 84, 486-495.	0.3	5
32	Reagent Pretreatment of Polychlorobiphenyls prior to Breakdown. Russian Journal of Applied Chemistry, 2019, 92, 1039-1044.	0.1	5
33	Optimization of nucleophilic dechlorination of polychlorinated biphenyls: calculation and experiment. International Journal of Environmental Science and Technology, 2019, 16, 3265-3274.	1.8	5
34	Preparation of Amino Derivatives from Industrial Mixtures of Polychlorobiphenyls. Russian Journal of Applied Chemistry, 2001, 74, 118-122.	0.1	4
35	Liquid-phase catalytic hydrodechlorination of aromatic chloro derivatives with metal nanopowders. Russian Chemical Bulletin, 2009, 58, 1321-1324.	0.4	4
36	Synthesis and properties of epoxy-anhydride polymers modified with polyfluorolakyl-substituted oxiranes in the course of curing. Russian Journal of Applied Chemistry, 2010, 83, 723-727.	0.1	4

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37	A study of the physico-chemical features of the [(perfluoroalkyl)methyl]oxirane amino derivatives based on the hexafluoropropylene oxide trimer. Russian Journal of General Chemistry, 2011, 81, 1829-1833.	0.3	4
38	Photoactivity of TiO2/CdS and SiO2/CdS hybrid nanostructured systems in the partial oxidation of ethanol under irradiation with visible light. Kinetics and Catalysis, 2015, 56, 515-522.	0.3	4
39	Optimization of the reaction of polychlorobiphenyls with a binucleophile by thermodynamic modeling. Russian Journal of Applied Chemistry, 2017, 90, 915-922.	0.1	4
40	Synthesis of oxiranes based on 1,1,2,3,3-pentafluoro-1,5-hexadiene. Russian Chemical Bulletin, 1995, 44, 1470-1473.	0.4	3
41	Synthesis of Polyfluorinated Ethers. Russian Journal of Applied Chemistry, 2005, 78, 1646-1650.	0.1	3
42	Dehydroiodination of 2-iodo-3-(polyfluoroalkyl)propoxymethyloxiranes. Russian Chemical Bulletin, 2007, 56, 2236-2238.	0.4	3
43	Synthesis and inhibiting capacity of new fluorine-containing quaternary ammonium salts. Russian Journal of Applied Chemistry, 2011, 84, 972-977.	0.1	3
44	Reaction of polychlorinated biphenyls and benzenes with neopentyl glycol. Russian Journal of General Chemistry, 2012, 82, 428-435.	0.3	3
45	Synthesis of symmetrical disulfides by reaction of fluorine-containing thiiranes with cyclic amines. Russian Journal of Organic Chemistry, 2017, 53, 514-519.	0.3	3
46	The interaction of low- and medium-chlorinated biphenyls with sodium methoxide with the account for thermodynamic modeling. Russian Journal of General Chemistry, 2017, 87, 934-939.	0.3	3
47	Symmetrical Fluorinated Dialkyl Carbonates as Precursors of Promising Materials. Russian Journal of Applied Chemistry, 2018, 91, 657-662.	0.1	3
48	Bacterial Degradation of a Mixture of Hydroxy and Methoxy Polychlorinated Biphenyls. Doklady Chemistry, 2019, 486, 133-136.	0.2	3
49	Preparation of a New Material Based on Epoxy Oligomers for Forming Corrosion-Protective Coatings. Russian Journal of Applied Chemistry, 2020, 93, 400-405.	0.1	3
50	Resistance of polyfluorinated complete esters of polyhydric alcohols to thermal oxidation: Comparison with nonfluorinated analogs. Russian Journal of General Chemistry, 2006, 76, 1795-1800.	0.3	2
51	Reactions of [2-iodo-3-(perfluoroalkyl)propyl]glycidyl ethers with alcohols under basic conditions. Russian Chemical Bulletin, 2008, 57, 2324-2327.	0.4	2
52	Modification of the silica particles surface with perfluoroalkylmethyloxiranes. Russian Journal of General Chemistry, 2014, 84, 1265-1272.	0.3	2
53	Features of polychlorinated biphenyls nitration. Russian Journal of General Chemistry, 2015, 85, 1611-1616.	0.3	2
54	Features of Sulfonation of Polychlorinated Biphenyl Congeners. Russian Journal of General Chemistry, 2018, 88, 257-261.	0.3	2

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55	Pyrolysis of Derivatives of Technical Mixtures of Polychlorinated Biphenyls. Doklady Chemistry, 2019, 487, 230-234.	0.2	2
56	Uncatalyzed Hydrodechlorination of Dichlorobiphenyls. Russian Journal of Organic Chemistry, 2019, 55, 988-990.	0.3	2
57	Local environment of CdS nanoparticles incorporated into anatase/brookite matrix via sol-gel route: HRTEM, Raman spectroscopy and MD simulation. Materials Today Communications, 2020, 25, 101465.	0.9	2
58	Synthesis and thermal decomposition of alkoxy-, hydroxy-derivatives of Sovol polychlorbiphenyls technical mixture. Journal of Material Cycles and Waste Management, 2020, 22, 1552-1560.	1.6	2
59	Reactions of Tetra- and Pentachlorobiphenyls with Alkali in 2-Aminoethanol Medium. Russian Journal of General Chemistry, 2020, 90, 2255-2257.	0.3	2
60	Modeling of the Biphenyl Dioxygenase Î±-Subunit Structure of Rhodococcus Strains and Features of the Destruction of Chlorinated and Hydroxylated Biphenyls at Different Temperatures. Applied Biochemistry and Microbiology, 2021, 57, 732-742.	0.3	2
61	Title is missing!. Russian Journal of Applied Chemistry, 2002, 75, 449-451.	0.1	1
62	Synthesis and GC-MS study of fluorinated esters derived from thrimethylolpropane. Russian Journal of General Chemistry, 2008, 78, 1701-1706.	0.3	1
63	Transformations of 4,4,5,5,6,6,7,7,7-nonafluoro-2-iodoheptyl glycidyl ether upon the action of nucleophiles and reducing agents. Russian Chemical Bulletin, 2009, 58, 1224-1227.	0.4	1
64	Synthesis and structure of fluorine-containing 3-pyrazolin-5-ones. Russian Journal of Organic Chemistry, 2009, 45, 1670-1674.	0.3	1
65	Chemical design of the CdS-TiO2 composite photocatalyst. Doklady Physical Chemistry, 2012, 447, 207-209.	0.2	1
66	Antifriction properties of new fluorine-containing derivatives of natural graphite. Russian Journal of Applied Chemistry, 2012, 85, 102-107.	0.1	1
67	Synthesis and tribological properties of new fluoro-containing oligomers. Russian Journal of Applied Chemistry, 2013, 86, 1767-1772.	0.1	1
68	Oxidation of highly chlorinated benzenes and biphenyls with potassium persulfate in the presence of perfluorinated radicals. Russian Journal of General Chemistry, 2013, 83, 1678-1686.	0.3	1
69	Antifriction properties of oils with thickeners based on modified fluoroalkyl-containing silica particles. Russian Journal of Applied Chemistry, 2014, 87, 1114-1118.	0.1	1
70	Synthesis and anticorrosive properties of alkylammonium polyfluoro-3-(ethoxycarbonyl)-2-oxo-2h-chromen-4-olates. Russian Journal of Organic Chemistry, 2014, 50, 66-71.	0.3	1
71	Specific features of surface modification of activated nanosize copper particles with 1,2-oxiranes. Russian Journal of Applied Chemistry, 2015, 88, 1395-1402.	0.1	1
72	Mechanism of the formation of photosensitive nanostructured TiO2 with low content of CdS nanoparticles. Doklady Physical Chemistry, 2016, 467, 56-59.	0.2	1

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73	A comparative study of the reactions of fluorinated oxi- and thiiranes with acyl chlorides. Russian Chemical Bulletin, 2017, 66, 1011-1017.	0.4	1
74	Thermodynamic Modeling of the Stage of Polychlorinated Biphenyls Preparation to Thermal Decomposition. Russian Journal of General Chemistry, 2019, 89, 1836-1842.	0.3	1
75	Hydroxylation of Polychlorinated Biphenyls in Polyalkanolamines Medium. Russian Journal of General Chemistry, 2019, 89, 717-721.	0.3	1
76	Study of structural, spectroscopic and photo-oxidation properties of in-situ synthesized Sc-doped titania. Journal of Molecular Liquids, 2019, 284, 29-38.	2.3	1
77	Thermo-Oxidative Degradation of Hydroxypolychlorobiphenyls. Russian Journal of General Chemistry, 2021, 91, 1540-1545.	0.3	1
78	Thermodynamic Aspects for the Reaction of Polychlorinated Biphenyls with Sodium Metoxide in Ethanol and Dimethyl Sulfoxide Solution. Doklady Chemistry, 2020, 495, 186-190.	0.2	1
79	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. Bulletin of the Russian Academy of Sciences Division of Chemical Science, 1992, 41, 320-323.	0.0	0
80	Reaction of 1,1,2,3,3-pentafluoro-1,5-hexadiene with methanol in the presence of a base. Russian Chemical Bulletin, 1994, 43, 711-712.	0.4	0
81	Hydrophobicity and thermal stability of fluorinated pentaerythritol esters. Russian Journal of Applied Chemistry, 2006, 79, 861-864.	0.1	0
82	Isomerism and tautomerism of 5-fluoroalkyl-substituted 3-acetyldihydrofuran-2(3H)-ones. Russian Journal of General Chemistry, 2009, 79, 800-807.	0.3	0
83	Antifriction properties of fluorine-containing poly(ethylene glycol) esters. Russian Journal of Applied Chemistry, 2012, 85, 267-271.	0.1	0
84	Aggregative stability of the CdS nanoparticles-H2O colloidal dispersion system in the presence of surfactants. Doklady Chemistry, 2012, 443, 86-90.	0.2	0
85	Thermodynamic Simulation for Interaction of Polychlorinated Biphenyls with Potassium Hydroxide in Polyalkanolamines. Russian Journal of Applied Chemistry, 2021, 94, 330-336.	0.1	0
86	Thermal Decomposition of Polychlorobiphenyls and Their Derivatives. Russian Journal of Applied Chemistry, 2020, 93, 1254-1260.	0.1	0
87	Features of the Reactions of Available Polyfluoroalkyloxiranes with Amines and Tribological Properties of the Obtained Compounds. Russian Journal of General Chemistry, 2022, 92, 990-995.	0.3	0