

Tatiana I Gorbunova

List of Publications by Citations

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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 | Synthesis and solar light catalytic properties of titania-cadmium sulfide hybrid nanostructures. <i>Catalysis Communications</i> , 2015 , 68, 61-66 | 3.2 | 31 |
| 86 | Chemical methods of transformation of polychlorobiphenyls. <i>Russian Chemical Reviews</i> , 2010 , 79, 511-530 | 3.08 | 29 |
| 85 | Reactivity of polychlorinated biphenyls in nucleophilic and electrophilic substitutions. <i>Journal of Hazardous Materials</i> , 2014 , 278, 491-9 | 12.8 | 18 |
| 84 | Synthesis of novel perfluoroalkyl-containing polyethers. <i>Journal of Fluorine Chemistry</i> , 2009 , 130, 438-443 | 4.1 | 17 |
| 83 | An interdisciplinary approach to the problem of neutralization of man-made polychlorinated biphenyls. <i>Doklady Chemistry</i> , 2014 , 454, 19-24 | 0.8 | 11 |
| 82 | Reactivity features of polychlorobiphenyl congeners in the nucleophilic substitution reactions. <i>Russian Journal of General Chemistry</i> , 2012 , 82, 138-143 | 0.7 | 10 |
| 81 | 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 |
| 80 | 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 |
| 79 | Preparation and antifrictional properties of surface modified hybrid fluorine-containing silica particles. <i>Applied Surface Science</i> , 2015 , 326, 19-26 | 6.7 | 8 |
| 78 | 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 |
| 77 | Optimization of the chemical stage of pretreatment of technical polychlorobiphenyls for destruction. <i>Doklady Chemistry</i> , 2017 , 476, 206-210 | 0.8 | 8 |
| 76 | 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 |
| 75 | Investigation of polychlorinated biphenyls congeners in the Triklorbifenil technical mixture. <i>Russian Journal of General Chemistry</i> , 2015 , 85, 1929-1933 | 0.7 | 7 |
| 74 | 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 |
| 73 | 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 |
| 72 | 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 |
| 71 | Addition of polyfluoroalkyl iodides to allyl glycidyl ether. <i>Russian Chemical Bulletin</i> , 2007 , 56, 1534-1536 | 1.7 | 6 |

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| 70 | 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 |
| 69 | Effect of addition of esters of fatty acids on the microstructure and properties of sintered NdFeB magnets produced by PLP. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 386, 134-140 | 2.8 | 5 |
| 68 | Polychlorinated biphenyls: correlation between experimental data and quantum-chemical simulation. <i>Russian Journal of General Chemistry</i> , 2014 , 84, 486-495 | 0.7 | 5 |
| 67 | 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 |
| 66 | Thermal desulfurization of (alkoxymethyl)thiiranes. <i>Russian Journal of General Chemistry</i> , 2014 , 84, 2120-2124 | 2.7 | 5 |
| 65 | A new application of derivatives of polychlorobiphenyls and polyethylene glycols. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 1622-1626 | 0.8 | 5 |
| 64 | One-step synthesis of epoxy(perfluoroalkyl)alkenes. <i>Russian Journal of Organic Chemistry</i> , 2009 , 45, 491-495 | 4.95 | 5 |
| 63 | Biodegradation of trichlorobiphenyls and their hydroxylated derivatives by Rhodococcus-strains. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124471 | 12.8 | 5 |
| 62 | 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 |
| 61 | Reagent Pretreatment of Polychlorobiphenyls prior to Breakdown. <i>Russian Journal of Applied Chemistry</i> , 2019 , 92, 1039-1044 | 0.8 | 4 |
| 60 | 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 |
| 59 | Liquid-phase catalytic hydrodechlorination of aromatic chloro derivatives with metal nanopowders. <i>Russian Chemical Bulletin</i> , 2009 , 58, 1321-1324 | 1.7 | 4 |
| 58 | 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 |
| 57 | Spatiotemporal aspects of interannual changes precipitation in the crimea. <i>Journal of Arid Environments</i> , 2020 , 183, 104280 | 2.5 | 4 |
| 56 | 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 |
| 55 | 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 |
| 54 | 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 |
| 53 | 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 |

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| 52 | Reaction of polychlorinated biphenyls and benzenes with neopentyl glycol. <i>Russian Journal of General Chemistry</i> , 2012 , 82, 428-435 | 0.7 | 3 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | Preparation of Amino Derivatives from Industrial Mixtures of Polychlorobiphenyls. <i>Russian Journal of Applied Chemistry</i> , 2001 , 74, 118-122 | 0.8 | 3 |
| 47 | Biodegradability of hydroxylated derivatives of commercial polychlorobiphenyls mixtures by <i>Rhodococcus</i> -strains. <i>Journal of Hazardous Materials</i> , 2020 , 400, 123328 | 12.8 | 3 |
| 46 | 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 |
| 45 | Symmetrical Fluorinated Dialkyl Carbonates as Precursors of Promising Materials. <i>Russian Journal of Applied Chemistry</i> , 2018 , 91, 657-662 | 0.8 | 3 |
| 44 | Pyrolysis of Derivatives of Technical Mixtures of Polychlorinated Biphenyls. <i>Doklady Chemistry</i> , 2019 , 487, 230-234 | 0.8 | 2 |
| 43 | Uncatalyzed Hydrodechlorination of Dichlorobiphenyls. <i>Russian Journal of Organic Chemistry</i> , 2019 , 55, 988-990 | 0.7 | 2 |
| 42 | Bacterial Degradation of a Mixture of Hydroxy and Methoxy Polychlorinated Biphenyls. <i>Doklady Chemistry</i> , 2019 , 486, 133-136 | 0.8 | 2 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | Modification of the silica particles surface with perfluoroalkylmethyloxiranes. <i>Russian Journal of General Chemistry</i> , 2014 , 84, 1265-1272 | 0.7 | 2 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |

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| 34 | 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 |
| 33 | 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 |
| 32 | A comparative study of the reactions of fluorinated oxiranes and thiranes with acyl chlorides. <i>Russian Chemical Bulletin</i> , 2017 , 66, 1011-1017 | 1.7 | 1 |
| 31 | 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 |
| 30 | Hydroxylation of Polychlorinated Biphenyls in Polyalkanolamines Medium. <i>Russian Journal of General Chemistry</i> , 2019 , 89, 717-721 | 0.7 | 1 |
| 29 | 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 |
| 28 | Features of polychlorinated biphenyls nitration. <i>Russian Journal of General Chemistry</i> , 2015 , 85, 1611-1616 | 1.7 | 1 |
| 27 | Features of Sulfonation of Polychlorinated Biphenyl Congeners. <i>Russian Journal of General Chemistry</i> , 2018 , 88, 257-261 | 0.7 | 1 |
| 26 | 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 |
| 25 | Synthesis and tribological properties of new fluoro-containing oligomers. <i>Russian Journal of Applied Chemistry</i> , 2013 , 86, 1767-1772 | 0.8 | 1 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | Chemical design of the CdS-TiO ₂ composite photocatalyst. <i>Doklady Physical Chemistry</i> , 2012 , 447, 207-209 | 0.8 | 1 |
| 20 | Antifriction properties of new fluorine-containing derivatives of natural graphite. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 102-107 | 0.8 | 1 |
| 19 | 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 |
| 18 | Dehydroiodination of 2-iodo-3-(polyfluoroalkyl)propoxymethyloxiranes. <i>Russian Chemical Bulletin</i> , 2007 , 56, 2236-2238 | 1.7 | 1 |
| 17 | Synthesis of Polyfluorinated Ethers. <i>Russian Journal of Applied Chemistry</i> , 2005 , 78, 1646-1650 | 0.8 | 1 |

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| 16 | 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 |
| 15 | Thermo-Oxidative Degradation of Hydroxypolychlorobiphenyls. <i>Russian Journal of General Chemistry</i> , 2021 , 91, 1540-1545 | 0.7 | 1 |
| 14 | Synthesis and structure of fluorine-containing 3-pyrazolin-5-ones. <i>Russian Journal of Organic Chemistry</i> , 2009 , 45, 1670-1674 | 0.7 | 0 |
| 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 | Modeling of the Biphenyl Dioxygenase β -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 |
| 11 | Immobilization of Rhodococcus wratislaviensis Strain KT112-7 β lls in Order to Increase Efficiency of Biodegradation of Modified Polychlorinated Biphenyls. <i>Biotekhnologiya</i> , 2019 , 58-70 | 0.4 | 0 |
| 10 | 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 | |
| 9 | Antifriction properties of fluorine-containing poly(ethylene glycol) esters. <i>Russian Journal of Applied Chemistry</i> , 2012 , 85, 267-271 | 0.8 | |
| 8 | 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 | |
| 7 | Hydrophobicity and thermal stability of fluorinated pentaerythritol esters. <i>Russian Journal of Applied Chemistry</i> , 2006 , 79, 861-864 | 0.8 | |
| 6 | 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 | |
| 5 | 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 | |
| 4 | 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 | | |
| 3 | 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 | |
| 2 | Thermal Decomposition of Polychlorobiphenyls and Their Derivatives. <i>Russian Journal of Applied Chemistry</i> , 2020 , 93, 1254-1260 | 0.8 | |
| 1 | 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 | |