

Contents

Vol. 87, No. 11, 2017

A simultaneous English language translation of this journal is available from Pleiades Publishing, Ltd.
Distributed worldwide by Springer. *Russian Journal of General Chemistry* ISSN 1070-3632

Formation of Nanocrystalline BiFeO ₃ under Hydrothermal Conditions <i>O. V. Proskurina, M. V. Tomkovich, A. K. Bachina, V. V. Sokolov, D. P. Danilovich, V. V. Panchuk, V. G. Semenov, and V. V. Gusarov</i>	2507
The Formation of Nanocrystalline Orthoferrites of Rare-Earth Elements XFeO ₃ (X = Y, La, Gd) Via Heat Treatment of Coprecipitated Hydroxides <i>V. I. Popkov, E. A. Tugova, A. K. Bachina, and O. V. Almyasheva</i>	2516
Structure, Magnetic, and Electrical Properties of Bismuth Niobates Doped with <i>d</i> -Elements: XVIII. Magnetic Susceptibility and ESR Spectra of Bi ₂ BaNb _{2-2x} Mn _{2x} O _{9-δ} Solid Solutions with Layered Perovskite-Like Structure <i>N. V. Chezhina, D. A. Korolev, A. V. Fedorova, N. A. Zhuk, L. S. Feltsinger, E. A. Pryanishnikova, V. P. Lutoev, and B. A. Makeev</i>	2525
Oxidative Decomposition of Oxalate Ion with Ozone in Aqueous Solution <i>A. F. Seliverstov, Yu. O. Lagunova, B. G. Ershov, and S. G. Shashkovskii</i>	2533
Rhodium(I) Bisaldimine Complexes in Transfer Hydrogenation <i>L. O. Nindakova, N. M. Badyrova, E. Kh. Sadykov, I. A. Ushakov, and S. Ch. Vanzarakshaeva</i>	2537
Colloid and Nanosized Catalysts in Organic Synthesis: XVII. Reductive Amination of Carbonitriles in the Presence of Supported Nickel Nanoparticles <i>Yu. V. Popov, V. M. Mokhov, S. E. Latyshova, A. O. Panov, and P. M. Shirkhanyan</i>	2546
Cross Effects of Structure and Temperature in the Reactions of <i>trans</i> -2,3-Diaryloxiranes with Arenesulfonic Acids <i>I. V. Shpan'ko and I. V. Sadovaya</i>	2552
Cyclohexane in Nanotubes: Direct <i>Chair–Chair</i> Interconversion <i>V. V. Kuznetsov</i>	2558
Synthesis of Aminomethyl Derivatives of Phosphonocarboxylates of the Furan Series <i>L. M. Pevzner</i>	2563
Synthesis, Complexing Properties, and Selectivity of Bis(diphenylphosphorylmethyl) Ethers of Oligoethylene Glycols. Crystal Structure of 1,3-Bis(diphenylphosphoryl)-2-oxapropane <i>I. S. Ivanova, V. E. Baulin, I. N. Polyakova, E. N. Pyatova, E. S. Krivorot'ko, E. N. Galkina, and A. Yu. Tsivadze</i>	2574
Compounds of Potassium and Tin(II) with Diiminopyridine Ligands: EPR Spectroscopy and Theoretical Study <i>M. G. Chegerev, A. V. Piskunov, and A. A. Starikova</i>	2582
Synthesis and ³¹ P NMR Study of Chromium, Molybdenum, and Palladium Complexes with 9-Substituted 1,2-Bis(diphenylphosphanyl)- <i>o</i> -carboranes <i>E. V. Oleshkevich, E. G. Rys, V. V. Bashilov[†], P. V. Petrovskii[†], V. A. Ol'shevskaya, S. K. Moiseev, A. B. Ponomaryov, and V. N. Kalinin</i>	2589
Synthesis and Structure of Trimethylantimony Dimethacrylate <i>A. V. Gushchin, E. A. Lakhanina, and P. V. Andreev</i>	2596
On the Mechanism of Cobalt(III) Aminates Pyrolysis <i>M. A. Ilyushin, Yu. S. Tverjanovich, A. S. Tverjanovich, A. O. Aver'yanov, A. V. Smirnov, and I. V. Shugalei</i>	2600
Low-Temperature Equilibria in Solutions of Isocyanide-Phosphine Complexes of Palladium(II) Chloride <i>M. A. Kinzhalov, A. V. Buldakov, A. V. Petrov, K. T. Mahmudov, A. Yu. Ivanov, and V. V. Suslonov</i>	2605

Synthesis, X-Ray Analysis, and Quantum-Chemical DFT Study of Features in Formation of a Binuclear Phenanthroline Complex with a V^{IV} –O– V^V Core <i>E. M. Nikandrov, D. O. Ruzanov, N. S. Panina, and A. N. Belyaev</i>	2612
Complexes of 1-Alkyl-4-aza-1-azoniabicyclo[2.2.2]octane Bromides with Lanthanum Nitrate. Micelle-Forming and Adsorption Properties <i>E. P. Zhil'tsova, M. R. Ibatullina, S. S. Lukashenko, M. P. Kutyreva, M. M. Anuar, V. I. Kovalenko, and L. Ya. Zakharova</i>	2620
Molecular Machines as a Driving Force of Progress in Modern Post-Industrial Society <i>V. V. Lukov, I. N. Shcherbakov, S. I. Levchenkov, Yu. P. Tupolova, L. D. Popov, I. V. Pankov, and S. V. Posokhova</i>	2627
Novel Approach to the Synthesis of Istaroxime <i>G.-P. Liang, J.-H. Guo, and R.-W. Jiang</i>	2643
Synthesis and Antimicrobial Activity of Novel Substituted 4-[3-(1 <i>H</i> -Benzimidazol-2-yl)-4-hydroxybenzyl]-2-(1 <i>H</i> -benzimidazol-2-yl)phenol Derivatives <i>V. Anil, B. Shankar, G. Bharath, and P. Jalapathi</i>	2648
Synthesis, Spectral Characterization, DNA Interaction, Antioxidant, and Antimicrobial Studies of New Water Soluble Metal(II) Complexes of Morpholine Based Ligand <i>G. S. Senthikumar, M. Sankarganesh, J. Rajesh, C. Vedhi, and J. Dhaweethu Raja</i>	2654
Ultrasound-Accelerated Synthesis of Quinoline-Based Luminescent Imines Exhibiting Large Stokes Shift <i>A. R. Choudhury, S. B. Paul, and S. Choudhury</i>	2664
Synthesis, Biological Evaluation, and Molecular Docking Studies of Diacylhydrazine Derivatives Possessing 1,4-Benzodioxan Moiety as Potential Anticancer Agents <i>S. Wang, H.-Y. Liu, R.-F. Xu, and J. Sun</i>	2671
Synthesis of Biologically Active Nickelocenyl–Amino Acid Conjugates Using 1,3-Dipolar Cycloaddition Click Reactions <i>M. A. Raza, M. Amin, G. Muhammad, A. Rashid, and A. Adnan</i>	2678
New Ferrocenyl Guanidines as Potent Antioxidants, Protein Kinase Inhibitors and Cytotoxic Agents Against Human Leukemia THP-1 Cell Line <i>R. Gul, A. Badshah, A. Ali Altaf, S. Tabassum, and M. Zia</i>	2684
Biological Evaluations and Spectroscopic Characterizations of 3-(4-Ethoxyphenyl)-2-methylacrylate Based Organotin(IV) Carboxylates Derivatives <i>M. Tariq, M. Sirajuddin, S. Ali, N. Khalid, and N. A. Shah</i>	2690
Synthesis and Characterization of Novel Chalcones Linked 3-[1-(3-Chlorophenyl)-3-(pyren-1-yl)]-1 <i>H</i> -pyrazole Moiety <i>N. M. Khalifa, M. A. Al-Omar, and O. M. Ali</i>	2699
Simple and Efficient Method for Aromatization of Tetrahydro- β -carbolines by Using $K_2S_2O_8$ as a Catalyst and Its Antimicrobial Activity Comparison with Molecular Docking Studies <i>A. Kurumanna, K. Ashok, S. Rambabu, B. Sonyanaik, D. Ravi, P. Madhu, and B. Sakram</i>	2703
The New Green Procedure for Pyrazolopyrimidinone Based Dihydropyrimidinones and Their Antibacterial Screening <i>Muralidhar Allam, A. K. D. Bhavani, and Sumathi Vodnala</i>	2712
New Complexes of 4-[(4-Fluorophenyl)amino]-4-oxobut-2-enoic Acid with Selected Transition Metal Ions: Synthesis, Thermal, and Magnetic Properties <i>W. Ferenc, P. Sadowski, B. Tarasiuk, B. Cristóvão, D. Osypiuk, and J. Sarzyński</i>	2719

Letters to the Editor

Effect of Protonation on the Photocatalytic Activity of the Layered Titanate $Rb_2Nd_2Ti_3O_{10}$ <i>I. A. Rodionov, S. A. Fateev, and I. A. Zvereva</i>	2728
Magnetic Susceptibility of $La_{1-x}Ce_xAlO_3$ Solid Solutions <i>E. A. Ponomareva, A. V. Fedorova, and N. V. Chezina</i>	2730

One-Pot Electrochemical Synthesis of Acid Anhydrides from Alcohols <i>V. P. Kashparova, E. N. Papina, I. I. Kashparov, I. Yu. Zhukova, I. B. Ilchibaeva, and E. Sh. Kagan</i>	2733
Reaction of <i>N</i> - <i>tert</i> -Butyl-2-haloaldimines with Thiolcarboxylic Acids <i>R. A. Khairullin, M. B. Gazizov, Yu. S. Kirillina, K. S. Gazizova, and Kh. R. Khayarov</i>	2736
1-Methyl-2-oxopyrrolidinium Perchlorate Ionic Liquid in Synthesis of 5-Ethoxycarbonyl-3,4-dihydropyrimidin-2(1 <i>H</i>)-ones <i>G. N. Badalova, V. M. Abbasov, I. A. Valiyev, L. I. Alieva, and A. H. Talybov</i>	2739
Synthesis of Precursors to New Tripodal Phosphine Oxide Ligands <i>I. Yu. Kudryavtsev, O. V. Bykhovskaya, I. M. Aladzheva, T. V. Baulina, and V. K. Brel'</i>	2744
Solubility of Salts of <i>d</i> -Elements in Organic and Water-Organic Solvents: V. Inner-Sphere Chalcogen S–S Contacts in the [Ni(DMSO) ₄ (H ₂ O) ₂]Cl ₂ Solvate <i>N. A. Bogachev, N. A. Tsyrunikov, G. L. Starova, M. Yu. Skripkin, and A. B. Nikolskii</i>	2748
Simulation of Metal Ion Coordination Sphere in Crystals with Fluorite Structure <i>S. G. Semenov, M. E. Bedrina, and A. V. Titov</i>	2750
Nafion- and Aquivion-Based Nanocomposites Containing Detonation Nanodiamonds <i>V. N. Postnov, N. A. Mel'nikova, G. A. Shul'meister, A. G. Novikov, I. V. Murin, and A. N. Zhukov</i>	2754
