Contents

Vol. 85, No. 3, 2015

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

Structural, Magnetic, and Electric Properties of Bismuth Niobates Doped with *d* Elements: X. State of Nickel in $Bi_3Nb_{1-x}Ni_xO_{7-\delta}$ Solid Solutions with a Fluorite-Type Structure
N. V. Chezhina, N. A. Zhuk, V. N. Zharenkova, and V. P. Lyutoev 521

Quantum-Chemical Prediction of the Luminescent Properties of $Eu_{0.33}Zr_2(PO_4)_3$
A. E. Shvetsov and A. K. Koryttseva 527

Estimation of Properties of Organic Perfluoroalkyl Derivatives Using Recurrent Equations
I. G. Zenkevich 533

Properties of Isomers of Oxygen-Containing Cyclic Monomers
V. V. Zaitseva, T. G. Tyurina, and S. Yu. Zaitsev 545

General Scheme of Fragmentation of Monofunctional Organic Compounds under Electron Ionization
Yu. V. Tkachuk, Yu. I. Morozik, and A. V. Dudkin 556

Salt Effects in the Reaction of Alcohols Oxidation with a Nitroxyl Radical–Iodine Catalytic System
V. P. Kashparova, I. A. Kashparov, I. Yu. Zhukova, A. V. Astakhov, and E. Sh. Kagan 567

Effect of *cis/trans*-Isomerisation on Photoalignment of Azo Dyes
V. S. Mikulich, Al. A. Muravsky, An. A. Murauski, and V. E. Agabekov 571

Banana-Shaped Liquid Crystals Based on 2,7-Dihydroxynaphthalene Derivatives
L. G. Derkach, N. S. Novikova, and E. Gorecka 577

Synthesis and Properties of Macrocyclic Compounds Containing 2-Methylindan-1,3-dione and Substituted Biphenyl Fragments
G. R. Berezina, K. D. Kuptsova, and N. M. Berezina 584

Quantum-Chemical Study of Barbaralone in Singlet and Triplet States
M. V. Makarova and S. G. Semenov 589

Reaction of Chloro(ethyl)silanes with Chloro(phenyl)silanes in the Presence of Aluminum Chloride. Synthesis of Chloro(ethyl)(phenyl)silanes
V. G. Lakhtin, M. I. Eremeeva, E. G. Gordeev, N. V. Ushakov, V. G. Bykovchenko, A. D. Kirilin, and E. A. Chernyshev 595

Synthesis and Some Reactions of Derivatives of 5-(1,2,3-Thiadiazol-4-yl)furan-2-carboxylic and 3-[5-(1,2,3- Thiadiazol-4-yl)fur-2-yl]acrylic Acids
K. V. Kuticheva, L. M. Pevzner, and M. L. Petrov 600

Synthesis and Properties of Substituted 3,5-Bis(3-imino-2,3-dihydro-1*H*-isoindol-1-ylideneamino)-1,2,4-thiadiazoles
E. A. Danilova, T. V. Kudayarova, R. M. Galiev, Min Tkhyi Nguen, I. G. Abramov, and M. B. Abramova 607

Effect of Substituents on Isomerization of *N*-Acyl-3-iodo-5-R-1,2,3,3a,4,8b-hexahydrocyclopenta[*b*]-indoles into 3,4,4a,8c-Tetrahydro-2a*H*-2-oxa-8b-azoniapentaleno[1,6-*ab*]indenes
M. A. Bagamanova and R. R. Gataullin 611

Tetradentate 5,7-Dichloro-8-hydroxy-2-quinolylhydrazones
V. M. Ostrovskaya, A. K. Buryak, A. S. Peregudov, and A. V. Ul'yanov 618

Synthesis of New 4,5-Substituted 4*H*-1,2,4-Triazole-3-thiols and Their Sulfanyl Derivatives
M. *A. Kaldrikyan, N. S. Minasyan, and R. G. Melik-Ogandzhanyan* 622

Possibility of Template Synthesis with Junction of Metallacycles Containing *trans*-Located Nitrogen Atoms in the 3*d* Metal(II) Ion–Dithiooxamide–Acetone Systems As Predicted by DFT Simulation Data
O. V. Mikhailov and D. V. Chachkov 628

Synthesis and Structure of Iridium Complexes $[Ph_3PR][trans\text{-}IrCl_4(DMSO)_2]$
V. V. Sharutin, O. K. Sharutina, V. S. Senchurin, and N. V. Somov 634

Synthesis and Spectrophotometric Study of Acidic and Complexing Properties of 5,15-Bis(4'-methoxyphenyl)-10,20-bis(4"-nitrophenyl)-2,8,12,18-tetramethyl-3,7,13,17-tetraethylporphyn in Acetonitrile
Yu. B. Ivanova, N. Zh. Mamardashvili, A. V. Glazunov, and A. S. Semeikin 640

Modification of Polymethylmethacrylate by Means of Diffusion Introduction of Single-Walled Carbon Nanotubes in Supercritical Carbon Dioxide
A. A. Dyshin, O. V. Eliseeva, G. V. Bondarenko, and M. G. Kiselev 648

Properties of Polyaniline Doped with Ferrocyanic Acid Estimated by Mössbauer, Positron, and Impedance Spectroscopy
N. P. Shapkin, V. K. Stepanovich, A. S. Kuchma, V. I. Razov, A. B. Podgorbunskii, and V. V. Korochentsev 653

Mechanism of Low-Molecular Alkenes Interaction with Sulfur-Containing Spatially Hindered Phenols under Conditions of Thermal Modification of Polymer Materials
A. P. Krysin, L. M. Pokrovskii, A. A. Nefedov, I. K. Shundrina, and B. A. Selivanov 659

Synthesis, Characteristics, and Antimicrobial Activity of Some Complexes of Mn(II), Fe(III) Co(II), Ni(II), Cu(II), and Sb(III) Containing Bidentate Schiff Base of SMDTC
Md. Kudrat-E-Zahan, M. S. Islam, and Md. Abul Bashar 667

One-Pot Synthesis of Bis(4,5-diphenylimidazol-2-yl-phenyl)glycols and Evaluation of Their Antimicrobial Activity
G. Linga Goud, S. Ramesh, D. Ashok, and V. Prabhakar Reddy 673

Synthesis of 2-(4-Aminophenyl)benzothiazoles Using MF Resin Supported H^+ under Solvent Free Conditions
Yingjie Lei, Xinshi Wu, Guochun Zhang, and Cuiling Ai 679

Amination of *p*-Hydroquinone by Laccase of *Xylaria polymorpha* MTCC-1100
Pankaj Kumar Chaurasia, Shashi Lata Bharati, Sunil Kumar Singh, and Sudha Yadava 683

Synthesis and Antibacterial Activity of 2-(3-Acylphenyl)amino-4-phenylthiazole
N. J. P. Subhashini, Jampaiah Amanaganti, and Shivaraj 686

Structural, Optical, and Photocatalytic Properties of $ZnS/\alpha\text{-}Fe_2O_3$ Core Shell Nano Particles
Patij Shah, K. S. Siddhapara, and D. V. Shah 689

Spectroscopic and Anticancer Studies on New Synthesized Copper(II) and Manganese(II) Complexes with 1,2,4-Triazines Thiosemicarbazide
Moamen S. Refat, I. M. El-Deen, M. S. El-Garib, and W. Abd El-Fattah 692

Facile Ionic Liquid-Mediated, Microwave Assisted Green Synthesis, and Antioxidant Studies of Novel Indolin-2-one Annulated Spirochromanone Conjugates
D. Ashok, Srinivas Gundu, Vikas Kumar Aamate, Mohan Gandhi Devulapally, and Malladi Srinivas Reddy 708

Vital Metal Complexes of Levofloxacin as Potential Medical Agents: Synthesis and Their Spectroscopic, Thermal, Computational, and Anticancer Studies
Fatima A.I. Al-Khodir and Moamen S. Refat 718

Spectroscopic and Thermal Investigations of Charge-Transfer Complexes Formed between Cefotaxime Sodium Drug and Various Acceptors
Mahmoud M. Ali, Akmal S. Gaballa, and Said M. Teleb 731

Synthesis and Structures of 1,2,4-Triazoles Derivatives
Ning Wang, Jun-feng Sheng, Fei Song, Yu-zhu Tong, and Zuo-xiang Wang 746

Green Synthesis of (2*E*,2'*E*)-1,1'-(4,6-Dihydroxy-1,3-phenylene)bis-3-(3-aryl-1-phenyl-1*H*-pyrazol-4-yl)-prop-2-en-1-ones
D. Ashok, D. Shravani, M. Sarasija, K. Sudershan, and N. Ramana Kishore 752

Letters to the Editor

Solid State Reaction of Preparation of Chromium and Iron Niobates with the Structure of Double Perovskite
A. A. Selyutin, A. Yu. Shirkin, I. A. Kasatkin, and N. P. Bobrysheva 756

Synthesis of Allenic Diamines via The Stevens Rearrangement of Ammonium Salts
M. O. Manukyan 758

Synthesis of 2-(Aminoalkyl)-3-(aminophenyl)bicyclo[2.2.1]heptanes
I. A. Novakov, B. S. Orlinson, R. V. Brunilin, A. A. Bakshaeva, and E. V. Sorokina 761

The Estimation of the Optical Activity of Polyatomic Molecules by DFT Methods
M. V. Makarova and S. G. Semenov 764

Reaction of *tert*-Butylimine of Phenylpropiolic Aldehyde with Substituted Imidazole-2-thiones
M. V. Karpov, A. N. Belyaev, D. D. Orlova, P. B. Davidovich, and A. V. Garabadzhiu 766

Addition of Triorganosilanes to 1-Propargyloxy-2-glycidyloxypropane in the Presence of Chloroplatinic Acid
M. Alagozoglu, Sh. A. Tarverdiev, and A. A. Agave 768

Mercaptobenzotellurazoles, New Chalcogen-Containing Heterocycles
A. M. M. Ali, P. A. Ramazanova, G. M. Abakarov, A. V. Tarakanova, and A. V. Anisimov 770

Synthesis on the Basis of Red Phosphorus of *O,O'*-Diisooctylthiophosphoric Acid Triethylammonium Salt, an Effective Inhibitor of Carbon Dioxide Corrosion of Steel
E. K. Badeeva, E. V. Platova, Yu. P. Khodyrev, and E. S. Batyeva 773

Synthesis of Glycidyl Ethers on the Basis of β-Dihydroxy Derivatives of Ferrocene
T. Sh. Minnakhmetov, N. V. Andrievskaya, and B. V. Polyakov 775

Errata

Erratum to: "Synthesis and Study of New Nitrogen-Containing Heterocycles Based on Glycoluril Derivatives" [*Russian Journal of General Chemistry* **85** (1), 88–91 (2015)]
L. K. Sal'keeva, A. A. Bakibaev, P. Voitiček, A. K. Shibaeva, E. K. Taishibekova, A. A. Zhortarova, and L. M. Sugralina 777

Erratum to: "Conductometric Study of Complex Formation between Benzylbisthiosemicarbazone and Metal Cations in Acetonitrile, Dimethylformamide, and Their Binary Mixtures" [*Russian Journal of General Chemistry* **84** (7), 1429–1433 (2014)]
Hamideh Sharifi Noghabi, Gholam Hossein Rounaghi, Mohammad Hossein ArbabZavar, and Javad Ebrahimi 778

Erratum to: "Reaction of Tetrachlorogermane with Thienyl- and Phenylchlorosilanes in Presence of Aluminum Chloride. Synthesis of Thienylchlorogermanes" [*Russian Journal of General Chemistry* **84** (2), 280–284 (2014)]
V. G. Lakhtin, M. I. Vorob'eva, E. G. Gordeev, N. V. Ushakov, A. D. Kirillin, V. G. Bykovchenko, N. A. Golub, and E. A. Chernyshev 779