

# Contents

Vol. 90, No. 11, 2020

|                                                                                                                                                                                                                                                                                                                                                    |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Thermal Stability of Cyclododecylidene-1,1-bis(hydroperoxide) in the Presence of Ferrocene<br><i>N. M. Andriyashina, S. A. Grabovsky, and N. N. Kabalnova</i>                                                                                                                                                                                      | 2029 |
| Thermal Transformations of 2,5-Difluoro-3,4,6-trichlorobenzenethiol with Tetrafluoroethylene<br><i>P. V. Nikul'shin, A. M. Maksimov, and V. E. Platonov</i>                                                                                                                                                                                        | 2032 |
| Synthesis of Isonicotinic and Salicylic Acids Derivatives from (–)- $\alpha$ -Pinene and (+)- $\Delta^3$ -Carene<br><i>Yu. V. Myasoedova, E. R. Nurieva, L. R. Garifullina, and G. Yu. Ishmuratov</i>                                                                                                                                              | 2038 |
| Aminomethylation of Symmetric Dialkylthioureas with Formaldehyde and Amino Acids<br><i>O. A. Mammeri, F. Hamoud, A. A. Sobina, S. M. Ramsh, V. S. Fundamensky, V. V. Gurzhiy, and E. S. Khrabrova</i>                                                                                                                                              | 2043 |
| Palladium-Promoted Carbon–Nitrogen Bond Cleavage in 1,3,5-Triazinane Derivatives<br><i>Yu. I. Murinov, L. G. Golubyatnikova, R. A. Khisamutdinov, A. G. Badamshin, and V. A. Dokichev</i>                                                                                                                                                          | 2048 |
| Synthesis, Structure, and Antibacterial Activity of Alkyl 6-Aroyl-7-aryl-4,7-dihydro-1H-tetrazolo[1,5-a]pyrimidine-5-carboxylates<br><i>V. L. Gein, T. M. Zamaraeva, A. A. Bobyleva, and M. V. Dmitriev</i>                                                                                                                                        | 2053 |
| Synthesis and Spectral-Luminescent Properties of 2-Aryl-5-butyl-1,3,4-oxadiazoles<br><i>I. E. Mikhailov, Yu. M. Artyushkina, G. A. Dushenko, and V. I. Minkin</i>                                                                                                                                                                                  | 2059 |
| Reactions of 4-Propargylsulfanylquinazoline with Bromine and Iodine<br><i>D. G. Kim, E. I. Bakhteva, and V. V. Sharutin</i>                                                                                                                                                                                                                        | 2064 |
| Alkylation of CH-Acids with 3-Halomethyl Derivatives of Ethyl (Diethoxyphosphorylmethyl)furoates<br><i>L. M. Pevzner, V. S. Zavgorodnii, and A. I. Ponyaev</i>                                                                                                                                                                                     | 2068 |
| Simultaneous Formation of Cage and Spirane Pentaalkoxyphosphoranes in Reaction of 5,5-Dimethyl-2-(2-oxo-1,2-diphenylethoxy)-1,3,2-dioxaphosphorinane with Hexafluoroacetone<br><i>V. F. Mironov, M. N. Dimukhametov, Ya. S. Blinova, and F. Kh. Karataeva</i>                                                                                      | 2080 |
| Synthesis and Functionalization of 5-Alkyl-6-methyl-2-thiouracils<br><i>A. A. Babushkina, D. M. Egorov, and K. I. Kaskevich</i>                                                                                                                                                                                                                    | 2093 |
| Synthesis and Spectral and Coordination Properties of Perhalogenated Tetraphenylporphyrins<br><i>Yu. B. Ivanova, N. V. Chizhova, and N. Zh. Mamardashvili</i>                                                                                                                                                                                      | 2098 |
| Metal Exchange Reaction of Cd(II) 5,10,15,20-Tetra(4-chlorophenyl)porphyrinate with Copper and Zinc Chlorides in DMSO<br><i>S. V. Zvezdina, N. V. Chizhova, and N. Zh. Mamardashvili</i>                                                                                                                                                           | 2105 |
| Study of Silver(I) Complex Formation with Some Thiourea Derivatives in Aqueous Solution<br><i>A. S. Samadov, I. V. Mironov, I. G. Gorichev, O. V. Kovalchukova, and A. F. Stepnova</i>                                                                                                                                                             | 2111 |
| Synthesis and Physicochemical Properties of Terbium(III) and Gadolinium(III) Coordination Compounds with Some Alkylbenzoic Acids<br><i>M. A. Nazarenko, A. I. Ofidli, A. A. Nikolaev, V. T. Panyushkin, and M. A. Magomadova</i>                                                                                                                   | 2115 |
| Synthesis, Structure, and Biological Activity of Copper(II), Nickel(II), Cobalt(III), and Iron(III) Coordination Compounds with 2-{2-[(Prop-2-en-1-yl)carbamothioyl]hydrazinylidene}propanoic Acid<br><i>A. P. Gulea, V. O. Graur, E. C. Diurici, Ia. I. Ulchina, P. N. Bouroush, G. G. Balan, O. S. Burduniuc, V. I. Tsapkov, and V. F. Rudic</i> | 2120 |
| Synthesis, Molecular Structure, and Spectral Characteristics of Lead(II) Complexes with 1,5-Dimethyl-4-[2-(3-methyl-5-oxo-1-phenyl-1,5-dihydro-4H-pyrazol-4-ylidene)-hydrazinyl]-2-phenyl-1,2-dihydro-3H-pyrazol-3-one<br><i>T. N. A. Vu, A. N. Utenyshev, N. A. Polyanskaya, V. A. Nguyen, and O. V. Kovalchukova</i>                             | 2128 |

|                                                                                                                                                                                                                                             |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Formation of Copper(II) Complexes with Low- and High-Methoxylated Pectins Modified with Salicylic and Anthranilic Acids<br><i>R. Kh. Mudarisova, O. S. Kukovinets, and S. V. Kolesov</i>                                                    | 2134 |
| Synthesis of Ultrapure Copper Chelates<br><i>N. N. Kostyuk and T. A. Dick</i>                                                                                                                                                               | 2141 |
| Reaction of $[\text{Pt}(\text{NH}_3)_4]\text{Cl}_2$ with $\text{NH}_4\text{VO}_3$ in an Alkaline Solution at 190°C in Autoclave<br><i>E. V. Fesik, T. M. Buslaeva, and I. A. Arkhipushkin</i>                                               | 2147 |
| Method for Producing Graphite-Like Chitosan Structures by Thermolysis and Microwave Irradiation<br><i>N. Sh. Lebedeva, S. S. Guseinov, Yu. A. Gubarev, E. S. Yurina, A. I. V'yugin, and O. N. Gavrilova</i>                                 | 2152 |
| Anionic Liposomes in Contact with Cationic Chitosan Particles<br><i>A. A. Efimova, A. S. Popov, and G. G. Krivtsov</i>                                                                                                                      | 2156 |
| Ion-Functionalized Silver(I) Carboxylates: Synthesis and Application in Ru-Catalyzed Olefin Metathesis Reaction<br><i>Xiao-Lu Chen, Xiang-Yu Li, Shuai-Shuai Li, Xue Bai, Tao Li, Erukala Yadaiah Goud, Chong-Min Zhong, and Ya-Jie Zuo</i> | 2163 |
| Organometallic Anticancer Compounds: Novel Half-Sandwich Ru(II)- and Co(II)-Arene Complexes, Their Cytotoxicity, and Apoptosis-Inducing Activity in Liver Cancer Cells<br><i>P. Shridhar, S. Purushothaman, and M. Ganeshpandian</i>        | 2170 |
| Luminescent Sensor for $\text{Cr}_2\text{O}_7^{2-}$ : A Novel Coordination Polymer Based on Flexible Homophthalic Acid<br><i>F. Y. Ju, W. B. Guo, X. X. Wang, and G. Z. Liu</i>                                                             | 2176 |
| Synthesis of New Drug-Like Piperazine-2,5-diones by the Ugi/Tandem Process Catalyzed by TMSOTf and Their Molecular Docking<br><i>A. M. Jassem, A. M. Dhumad, and F. A. K. Almashal</i>                                                      | 2181 |
| Indium(I)/ $\text{CuFe}_2\text{O}_4$ Reagent for Allylation of Carbonyls and Epoxide Rearranged Carbonyls<br><i>M. Kundu, S. P. Mandal, B. Mondal, and U. K. Roy</i>                                                                        | 2189 |

---

### Short Communications

|                                                                                                                                                                                                                                                                                           |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Synthesis of 2-Naphthylselenoacetic Acid Dialkylamides from 4-(2-Naphthyl)-1,2,3-selenadiazole<br><i>M. Yekhlief, M. L. Petrov, L. M. Pevzner, and A. I. Ponyaev</i>                                                                                                                      | 2197 |
| Stability of New Zinc Complexes with $\beta,\beta'$ -(Ethylenediamine)- <i>N,N</i> -dipropionic Acid<br><i>A. Ya. Fridman, N. V. Tsirolnikova, E. S. Dernovaya, O. N. Volosneva, and A. M. Ismagulov</i>                                                                                  | 2200 |
| Features of Chemical Interactions in Silver Chalcogenides Responsible for Their High Plasticity<br><i>Yu. S. Tveryanovich, T. R. Fazletdinov, A. S. Tverjanovich, Yu. A. Fadin, and A. B. Nikolskii</i>                                                                                   | 2203 |
| Synthesis and Thermal Properties of Cobalt-Doped Hydroxyapatite Nanoparticles with Controlled Morphological Parameters<br><i>E. A. Syukkalova, A. S. Vepreva, A. V. Sadetskaya, N. D. Demidova, N. P. Bobrysheva, M. G. Osmolowsky, and O. M. Osmolovskaya</i>                            | 2205 |
| In Vitro Activity of Organochalcogen Compounds: I. Cytotoxic Effect of 4-(1,2,3-Thiadiazol-4-yl)furans Against K562 and HeLa Tumor Cell Lines<br><i>Yu. O. Remizov, A. A. Kornev, L. M. Pevzner, M. L. Petrov, V. M. Boitsov, and A. V. Stepanov</i>                                      | 2208 |
| In Vitro Activity of Organochalcogen Compounds: II. Cytotoxic Effect of 2-Aminobenzo[ <i>b</i> ]thiophenes Against K562 and HeLa Tumor Cell Lines<br><i>E. A. Popova, A. A. Kornev, S. V. Shmakov, G. D. Nepochatyi, O. A. Kotyunina, M. L. Petrov, V. M. Boitsov, and A. V. Stepanov</i> | 2214 |

---