

# Contents

Vol. 90, No. 9, 2020

Synthesis and Analgesic Activity of <i>N</i> ,6-Diaryl-4-hydroxy-4-methyl-2-oxocyclohexane-1-carboxamides and Their Dehydration Products <i>N. V. Nosova, A. A. Sokolov, O. N. Gein, V. L. Gein, A. N. Yankin, S. E. Danilov, and M. V. Dmitriev</i>	1581
Effect of Structure of 1-Substituted Isatins on Direction of Their Reactions with Some Acetohydrazide Ammonium Derivatives <i>A. V. Bogdanov, A. D. Voloshina, A. S. Sapunova, N. V. Kulik, and V. F. Mironov</i>	1591
Indole-3-carbaldehydes Arylhydrazones as Multisite C-Nucleophiles in the Reactions with Quinazoline <i>Yu. A. Azev, O. S. Koptyaeva, O. S. Eltsov, Yu. A. Yakovleva, A. N. Tsmokalyuk, A. V. Ivoilova, E. A. Seliverstova, T. A. Pospelova, and V. A. Bakulev</i>	1601
Synthesis and Evaluation of Antibacterial Activity of 1,2,4-Oxadiazole-Containing Biphenylcarboxylic Acids <i>M. V. Tarasenko, S. I. Presnukhina, S. V. Baikov, and A. A. Shetnev</i>	1611
Synthesis of 1-[3-(Hetaryl)allyl]morpholines as Potential Anticholinesterase Agents <i>N. M. Chernov, P. I. Ezhov, R. V. Shutov, and I. P. Yakovlev</i>	1620
Structure of the Product of 1,3,5,7-Tetra- <i>tert</i> -butyloctahydro-1 <i>H</i> ,4 <i>aH</i> -imidazo[4',5':5,6]dioxino[2,3- <i>d</i> ]imidazole Cocrystallization with 1,3-Di- <i>tert</i> -butylimidazol-2-one and 1,3-Di- <i>tert</i> -butylimidazolin-2-ylidene <i>A. M. Chernysheva, A. V. Virovets, E. V. Peresyphkina, and A. Yu. Timoshkin</i>	1625
Reaction of Phosphorus Trihalides with Methyl Triflate. Molecular and Supramolecular Structure of Methyltrichloro- and Methyltribromophosphonium Triflates <i>A. T. Gubaidullin, V. F. Mironov, and I. A. Litvinov</i>	1630
Synthesis of Phosphinic Isosteres of Leucyl- and Isoleucylglycines <i>S. R. Golovash, M. E. Dmitriev, V. I. Shestov, and V. V. Ragulin</i>	1636
<i>O</i> -Trimethylsilyl- <i>N</i> -phenylsulfonylacetimidate: Synthesis and Structure <i>A. Yu. Nikonov, I. V. Sterkhova, N. A. Kolyvanov, V. Yu. Serykh, and N. F. Lazareva</i>	1641
Cross-Linking of Oligosiloxanediols and Element-Oligosiloxane Diols. Properties of Materials on Their Basis (Review) <i>O. G. Khelevina, A. S. Malyasova, and O. I. Koifman</i>	1646
Synthesis and Properties of Metal Phthalocyanines Containing Anthraquinone Chromophores <i>T. A. Rumyantseva, A. A. Alekseeva, and M. A. Tkachenko</i>	1660
Specific Features of the Reactions of Pentaphenylantimony with Polyfunctional Heterocyclic Carboxylic Acids <i>Yu. O. Gubanova, V. V. Sharutin, O. K. Sharutina, and K. Yu. Petrova</i>	1664
Structural and Morphological Features of Polycrystalline Aluminum Oxide Surface after Nanocoating with Titanium Oxide of Different Thickness <i>N. V. Zakharova, K. T. Akkuleva, and A. A. Malygin</i>	1670
Synthesis of Titanium Oxide Doped with Neodymium Oxide in a Confined Impinging-Jets Reactor <i>A. V. Zdravkov, Yu. S. Kudryashova, and R. Sh. Abiev</i>	1677
Low-Temperature Synthesis of K–Ba–Bi–O Oxides in KOH Solution <i>N. V. Barkovskii</i>	1681
Structure of the Nearest Environment of Na <sup>+</sup> , K <sup>+</sup> , Rb <sup>+</sup> , and Cs <sup>+</sup> Ions in Oxygen-Containing Solvents (Review) <i>P. R. Smirnov</i>	1693
Study of Tetraethylammonium and Lithium Chlorides Dissociation in Acetonitrile Solutions <i>A. A. Vidiakina, N. A. Bogachev, M. Yu. Skripkin, and A. S. Mereshchenko</i>	1703
Synthesis and Anticancer Activity of New Pyridine-Thiophene and Pyridine-Furan Hybrid Compounds, Their Sugar Hydrazone, and Glycosyl Derivatives <i>H. S. Khalaf, H. E. M. Tolan, M. N. El-Bayaa, M. A. A. Radwan, M. El-Manawaty, and W. A. El-Sayed</i>	1706

Synthesis and Antimicrobial Activity of (3-Formyl-4-hydroxybenzyl)triphenylphosphonium Chloride Acylhydrazones <i>M. R. Milenković, V. Živković-Radovanović, and L. Andjelković</i>	1716
Microwave Assisted Synthesis and Antibacterial Activity of New 1,3,4-Thiadiazoles and 1,2,4-Triazoles Derived from 2-[2-[2-(4-Fluorophenyl)-4-methylthiazol-5-yl]-1H-benzo[d]imidazol-1-yl} acetohydrazide <i>N. R. Darekar, B. K. Karale, H. N. Akolkar, and A. S. Burungale</i>	1721
Design, Synthesis, Anti-Cancer Activity, and <i>In Silico</i> Studies of Novel Imidazo[1,2- <i>a</i> ]pyridine Derivatives <i>S. Endoori, K. C. Gulipalli, S. Bodige, J. N. Narendra Sharath Chandra, and N. Seelam</i>	1727
Synthesis, Characterization, and Anticancer Activity of Novel Macrocyclic Indenedione Based on the Tröger's Base and <i>N,N'</i> -Disubstituted Phenhomazine Candidates <i>A. A. Ibrahim, S. F. Mohamed, M. A. El-Hashash, H. S. Abd-Elghaffar, K. M. H. Mohamed, H. M. Hosni, A. E. Amr, and E. A. Elsayed</i>	1737
Synthesis and Molecular Structure Study of New Organotellurium and Organomercury Compounds Based on 4-Bromonaphthalen-1-amine <i>R. H. Al-Asadi</i>	1744

---

### Short Communications

Synthesis of 2,3-Diphenylacrolein Acetals <i>G. N. Sakhabutdinova, G. Z. Raskil'dina, and S. S. Zlotskii</i>	1750
Synthesis of Functionalized Triptamine Analogues with Dichloroethoxyphosphoryl and Ethoxycarbonyl Groups <i>Z. M. Sarkisyan</i>	1753
Synthesis of New <i>C</i> -Alkyl- <i>N</i> -pyridoxylmethylbenzimidazoles <i>R. Kh. Bagautdinova, G. N. Aitbay, L. K. Kibardina, A. G. Strel'nik, A. R. Burilov, and M. A. Pudovik</i>	1756
Nucleophilic Cleavage of the Ether Bond of Chlorex in the Chalcogenation with Diphenyl Dichalcogenides in the System Hydrazine Hydrate–KOH <i>V. A. Grabel'nykh, I. N. Bogdanova, V. S. Nikonova, N. G. Sosnovskaya, N. V. Istomina, N. V. Russavskaya, A. I. Albanov, I. B. Rozentsveig, and N. A. Korchevin</i>	1760
One-Pot Method for Synthesis of <i>N</i> -Phosphorylated Mono- and Diimidates <i>V. E. Shishkin, Y. V. Popov, O. V. Anishchenko, M. A. Shevchenko, S. M. Ledenev, and N. A. Sokolov</i>	1763

---

### Selected articles originally published in Russian in *Rossiiskii Khimicheskii Zhurnal* (*Russian Chemistry Journal*)

Preparation and Some Physicochemical Properties of Water–Surfactant–Halohydrocarbon Microemulsions Suitable for the Creation of Combined Fire Extinguishing Agents (Review) <i>D. V. Batov</i>	1766
Application of Acrylic Polymers in Transfer Printing of Cotton Fabrics <i>T. N. Zelenkova, O. V. Kozlova, V. V. Shirmanova, and S. N. Khakhin</i>	1777
A Rapid Method for Assessing the Migration Ability of Acaricidal Repellent Substances when Released from Microcapsules <i>A. A. Lipina, S. N. Khakhin, O. I. Odintsova, E. L. Vladimirtseva, and E. O. Avakova</i>	1781
Structure and Energy Profile of the Skeletal Nickel Surface According to the Small-Angle X-Ray Diffraction and Adsorption Calorimetry Data <i>V. V. Kuznetsov, T. Yu. Osadchaya, A. V. Afineevskii, D. A. Prozorov, M. V. Lukin, and D. N. Smirnova</i>	1787
Influence of the Composition and Morphology of the Active Phase of Quaternary P–Ni–Mo–W/Al <sub>2</sub> O <sub>3</sub> Catalysts with Different P <sub>2</sub> O <sub>5</sub> Contents in the Modified Support on Their Catalytic Activity <i>P. S. Solmanov, N. M. Maksimov, N. N. Tomina, and A. A. Pimerzin</i>	1795
Formation of Silver Nanoparticles via Reduction of Their Sparingly Soluble Precursors <i>N. S. Dymnikova, E. V. Erokhina, A. P. Moryganov, and O. Yu. Kuznetsov</i>	1802
Kinetics of the Formation of Nitroso Radicals in the System of Butyl Rubber Curing in the Presence of Sterically Hindered 2,4,6-Tri- <i>tert</i> -butylphenol <i>E. Kh. Afiatulloev, T. A. Chapko, and L. N. Gur'eva</i>	1808
Study of the Efficiency of Combined Titanium Coagulants in the Treatment of Formation Waters <i>S. V. Azopkov, E. N. Kuzin, and N. E. Kruchinina</i>	1811

---