

Contents

Vol. 90, No. 12, 2020

| | |
|--|------|
| Polyfunctional Ionochromic 1,3-Dihydroxy-6-oxo-6H-benzo[<i>c</i>]chromene-2,4-dicarbaldehyde Aroylhydrazones O. G. Nikolaeva, O. Yu. Karlutova, A. D. Dubonosov, V. A. Bren, and V. I. Minkin | 2219 |
| Synthesis and Some Transformations of 5-Aryl-4-(4-halogenaroyl)-3-hydroxy-1-cyanomethyl-3-pyrrolin-2-ones V. L. Gein, E. V. Pastukhova, A. N. Korol, N. V. Dozmorova, and E. V. Voronina | 2225 |
| Pyridine Derivatives of Acridine and Quinoline E. A. Akishina, D. V. Kazak, E. A. Dikusar, R. S. Alexeev, N. A. Bumagin, and V. I. Potkin | 2230 |
| Structural Modification of Pyridoxal. Synthesis and Evaluation of Anti-Infective Activity of New 4-Chloro- and 4-Alkyl(dialkyl)aminomethyl-2-hetaryl(hetaryl)furo[2,3- <i>c</i>]pyridines A. A. Zubenko, L. N. Divaeva, A. S. Morkovnik, L. N. Fetisov, V. S. Sochnev, K. N. Kononenko, A. N. Bodryakov and A. I. Klimenko | 2242 |
| Reactions of Adenine and Its <i>N</i> -Exo Substituted Analogues with Phenyl Glycidyl Ether O. V. Neporozhneva, E. P. Studentzsov, and S. M. Ramsh | 2248 |
| Reactions of Tetra- and Pentachlorobiphenyls with Alkali in 2-Aminoethanol Medium T. I. Gorbunova, M. G. Pervova, V. I. Saloutin, and O. N. Chupakhin | 2255 |
| Supramolecular Complex of 20-Hydroxyecdysone-3-acetate with β -Cyclodextrin and Its Biological Activity B. I. Tuleuov, B. S. Temirgaziev, A. M. Kozhanova, R. B. Seydakhmetova, K. M. Turdybekov, T. M. Seilkhanov, O. T. Seilkhanov, P. Drasar, and S. M. Adekenov | 2258 |
| Reactions of Polyfluoroaromatic Organozinc Compounds with Oxalyl Chloride in DMF. Synthesis of Polyfluoroaromatic Aldehydes A. S. Vinogradov and V. E. Platonov | 2264 |
| New Tridentate Carbamoylmethylphosphine Oxides: Synthesis and NMR Spectra N. A. Bondarenko, S. K. Belus', O. I. Artyushin, and A. S. Peregudov | 2273 |
| Stabilization of Double-Stranded Poly(A)-Poly(U) with ZnTMPyP4 Metalloporphyrin in Aqueous Solution A. G. Kudrev | 2281 |
| Synthesis and Properties of Metal Complexes with Octa(4-cyclohexylphenoxy)phthalocyanines S. A. Znoiko, N. A. Tolstykh, A. I. Mikhailova, I. V. Novikov, A. S. Vashurin, and V. E. Maizlish | 2289 |
| Photolysis of Solutions of Palladium(II) Complex Compounds with Organic Acids E. I. Isaeva, V. V. Gorbunova, and A. M. Nazarova | 2296 |
| Complexes of the Lewis Acid Ga[N(C ₆ F ₅) ₂] ₃ with Acetonitrile and Pyridine A. S. Zavgorodnii, A. V. Pomogaeva, and A. Y. Timoshkin | 2305 |
| Electronic Structure and Magnetic Properties of Mixed-Ligand Cobalt Complexes Containing Organogermanium Triangulenes M. G. Chegerek, A. A. Starikova, A. G. Starikov, and V. I. Minkin | 2312 |
| Composition and Structure of Complexes Formed in GeCl ₄ -2-Hydroxybenzene(2-hydroxynaphthaline-1)carbaldehyde Isonicotinoylhydrazone-ZnCl ₂ -Methanol N. V. Shmatkova, I. I. Seifullina, L. S. Skorokhod, A. N. Morozov, L. D. Popov, and G. A. Gazieva | 2323 |
| Features of the Pentaphenylantimony Reaction with 3-Hydroxybenzoic and Benzene-1,2,4,5-Tetracarboxylic Acids Yu. O. Gubanova, V. V. Sharutin, and O. K. Sharutina | 2328 |
| [Re(CO) ₃ (bipy)(ClO ₄)]: Synthesis in a Proton-Donor Solvent, Crystal, and Molecular Structure A. E. Miroslavov, G. V. Sidorenko, M. Yu. Tyupina, and V. V. Gurzhii | 2333 |
| Tripodal 1,2,3-Triazole Ligands Based on Triphenylphosphine Oxide. Coordination and Extraction Properties A. G. Matveeva, T. V. Baulina, I. Yu. Kudryavtsev, M. P. Pasechnik, R. R. Aysin, O. V. Bykhovskaya, M. I. Godovikova, S. V. Matveev, A. N. Turanov, V. K. Karandashev, and V. K. Brel | 2338 |
| Design, Synthesis, and Anticancer Activity of New Derivatives of Thiazole and Imidazole I. M. El-Deen, E. H. Elsayed, M. El-Ahwany, and M. S. Abd El-Azez | 2350 |

| | |
|---|------|
| Chemistry of Phosphorus Ylides. Part 47. Synthesis of Organophosphorus and Selenium Pyrazolone Derivatives, Their Antioxidant Activity, and Cytotoxicity against MCF7 and HepG2 M. A. Abd-El-Maksoud, M. El-Hussieny, H. M. Awad, A.-T. H. Mossa, and F. M. Soliman | 2356 |
| Syntheses, Structure, and Properties of a Novel Cobalt Metal-Organic Framework H. X. Kang, Y. Q. Fu, L. Y. Xin, M. Jiu, L. J. Wang, and G. Z. Liu | 2365 |
| Design, Synthesis, and Anticancer Activity of 1,3,4-Oxadiazole Incorporated 5-(Pyrimidin-5-yl)benzo[d]oxazole Derivatives Y. J. Pragathi, D. Veronica, M. V. Basaveswara Rao, and R. R. Raju | 2371 |
| Synthesis and Structure of 4-Chloro-2-{[5-(diethylamino)-2-hydroxybenzylidene]amino}phenol and Its Metal Complexes N. Abbas, G. Shabir, A. Saeed, S. A. Tirmizi, G. A. Echeverría, O. E. Piro, and M. F. Erben | 2376 |
| Synthesis and Anticancer Activity of Different 1,2,4-Triazolearyl Incorporated Thiazolepyridine Derivatives Sanivarapu Sumalatha, V. Namrata, Marepally Lakshmi, and Gattu Sridhar | 2381 |
| Synthesis and Antimicrobial Activity of Quinoxaline Based 1,2,3-Triazoles A. Kishore Kumar, V. Sunitha, G. Ramesh, and P. Jalapathi | 2386 |
| Capturing of Environment Polluting Metal Ions Co^{2+} , Ni^{2+} , Cu^{2+} , and Zn^{2+} Using a 3-Azomethine Benzanthrone-Based Fluorescent Dye: Its Synthesis, Structural, and Spectroscopic Characterizations A. M. A. Adam, T. A. Altalhi, S. M. El-Megharbel, H. A. Saad, M. S. Refat, I. Grabchev, and R. A. Althobaiti | 2394 |
| In Vitro Activity of Organochalcogen Compounds: III. Cytotoxic Effect of 4-(2-Hydroxyaryl)-1,2,3-thiadiazoles Against K562 and Hela Tumor Cell Lines E. A. Popova, A. A. Kornev, V. V. Bessonov, D. A. Androsov, M. L. Petrov, V. M. Boitsov, and A. V. Stepakov | 2400 |
| Synthesis, FTIR, and Raman Spectroscopic and Thermogravimetric Analysis of UO_2 (II), ZrO (II), VO (II), and Th(IV) Valerate Complexes M. S. Refat, S. B. Bakare, and T. Altalhi | 2405 |
| Synthesis, In Vitro Antiproliferative Activity, and In Silico Studies of New Anilinoquinazoline Derivatives as Potential Antitumor Agents M. K. Abdulwahab, R. Dzulkeflee, T. K. Han, R. A. Ruslan, K. H. Leong, C. H. Heh, and A. Ariffin | 2410 |
| Synthesis and Evaluation of Antioxidant, Antibacterial, and Target Protein-Molecular Docking of Novel 5-Phenyl-2,4-dihydro-3H-1,2,4-triazole Derivatives Hybridized with 1,2,3-Triazole via the Flexible SCH_2 -Bonding E. S. H. El Ashry, M. M. Elshatanofy, M. E. I. Badawy, K. M. Kandeel, O. M. Elhady, and M. A. Abdel-Sayed | 2419 |
| Structural Characterization, Hirshfeld Analyses, Fluorescence, and Catalytic Oxidase Properties of New Cu(II) and Co(II) Halogen-Substituted Salamo-Based Complexes S.-Z. Guo, Y.-J. Li, S.-S. Feng, and W.-K. Dong | 2435 |
| One Pot Synthesis and Antitumor Activity of Isoxazole-Pyrimido[4,5-c]isoquinolines E. Venkatesh, S. Narsimha, N. S. Kumar, and N. V. Reddy | 2444 |
| Synthesis and Fungicidal Activity of Novel <i>N</i> -Aryl- <i>N'</i> -(2-hydroxybenzyl)ethylenediamine Derivatives Yuhuan Tan, Zilong Tang, Yuan Yao, Yichao Wan, and Lifen Peng | 2451 |
| Synthesis and Characterization of Ru(II) Polypyridyl Complexes with 2-(4-Methylbenzoate)-1 <i>H</i> -imidazo[4,5- <i>f</i>][1,10]phenanthroline Ligand, and Their DNA Binding, Photocleavage, Physico-Chemical Properties, and Cytotoxicity C. Nagamani, P. V. Reddy, M. R. Reddy, K. L. Reddy, and S. Satyanarayana | 2456 |
| Potentiometric Studies on Bioactive Material Species of Ternary Complexes P. Seetharam, M. Balakrishna, B. Sathish Mohan, G. Satyanarayana, and B. B. V. Sailaja | 2467 |
| Recent Studies on Applications of Schiff Bases and Their Complexes in Atmospheric Carbon Dioxide Capture Debdulal Maity | 2473 |
| Synthesis of 1'-Aryl-1-phenyl-5',6,6',7,7',7a'-hexahydro-1'H-dispiro[indazole-5,2'-pyrrolizine-3',11"-indeno[1,2- <i>b</i>]quinoxalin]-4(1 <i>H</i>)-one via Cycloaddition Reaction Sha Li, Jiaxi Tan, and Xiaofang Li | 2484 |
| Synthesis of the Derivatives of 4-(1,2,3-Selenadiazol-4-yl)-5-methyl-2-furoate Functionalized at the Methyl Group A. G. Mashichev, L. M. Pevzner, and M. L. Petrov | 2489 |

Synthesis and Luminescent Properties of Terbium(III), Europium(III), and Gadolinium(III) Coordination Compounds with *o*-Arylbenzoic Acids

A. A. Nikolaev, A. N. Kulyasov, and V. T. Panyushkin

2498

Reaction of In(C₆F₅)₃Et₂O with Complexes of Copper and Silver Monochlorides with *N,N'*-Bis(isopropylphenyl)imidazol-2-ylidene

N. A. Shcherbina, I. V. Kazakov, D. V. Spiridonova, V. V. Suslonov, O. V. Khoroshilova, V. N. Mikhailov, and A. Y. Timoshkin

2503

Design, Synthesis, and Anticancer Activity of Novel 2-(4-Arylsubstituted-1*H*-1,2,3-triazol-1-yl)-*N*-{4-[2-(thiazol-2-yl)benzo[*d*]thiazol-6-yl]phenyl}acetamide Derivatives

R. Polothi, G. S. B. Raolji, M. V. B. Rao, V. Sastry K, and K. Sheelam

2509

Acid-Catalytic Oxidation of Thiophene by Hydrogen Peroxide in *n*-Octane–Water System

T. V. Bezbozhnaya, A. K. Lyubimova, and V. L. Lobachev

2514

Short Communications

Features of the Reaction of Dimedone with Some Amines in the Presence of Mercury(II) Acetate

N. G. Hobosyan, K. V. Balyan, H. S. Nersisyan, L. M. Galechyan, A. B. Sargsyan, R. A. Tamazyan, and A. G. Ayvazyan

2518

Some Peculiarities of Oxidation of 1-Carbamoyl-Substituted Hexahydro-1*H*-thieno[3,2-*c*]pyrazole-4,4-dioxides

I. E. Efremova, A. V. Serebryannikova, L. V. Lapshina, and I. I. Savelev

2522

Synthesis and Biological Activity of Selenenylamide Based on Cytisine and 2-(Chloroselanyl)pyridine-1-oxide

A. V. Borisov, Zh. V. Matsulevich, G. N. Borisova, V. K. Osmanov, V. I. Naumov, S. A. Zalepkina, and V. F. Smirnov

2525

New Polymorph of Tetrakis(pentafluorophenyl)diboroxane (C₆F₅)₂BOB(C₆F₅)₂

N. Y. Gugin, A. V. Virovets, E. V. Peresypkina, and A. Y. Timoshkin

2528
