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**Publikace v mezinárodních odborných časopisech za rok 2012
Scientific papers in international journals for the year 2012**

Svobodová, Šimůnek, Macháček, Štruncová, Růžička et al., Four-coordinate organoboron compounds from beta-enaminonitriles and diazonium salts, *Tetrahedron*, 68, (2012) 2052-2060.

J. Kulhánek, F. Bureš et al., Imidazole as a parent pi-conjugated backbone in charge-transfer chromophores., *Beilstein Journal of Organic Chemistry*, 8, (2012) 25-49.

P. Drabina, Funk, A. Růžička, Moncol, M. Sedlák et al., The structures of cobalt(II) and copper(II) complexes derived from 6-(4,5-dihydro-1H-imidazol-5-on-2-yl)pyridine-2-carboxylic acid, *Polyhedron*, 34, (2012) 31-40.

Imramovský, Grusova, Beneš, Pejchal, Sedlák et al., Synthesis and characterization of pH-sensitive conjugate of isoniazid - methoxypoly(ethylene glycol)-b-poly(L-lysine), *Bioorganic & Medicinal Chemistry Letters*, 22, (2012) 5952-5955.

J. Tydlitát, F. Bureš, J. Kulhánek, G. Mloston, A. Růžička et al., Camphor-annelated imidazolines with various N1 and C2 pendants as tunable ligands for nitroaldol reactions, *Tetrahedron Asymmetry*, 23, (2012) 1010-1018.

D. Cvejn, V. Klimešová, F. Bureš et al., a-Amino acid-derived 2-phenylimidazoles with potential antimycobacterial activity, *Central European Journal of Chemistry*, 10, (2012) 1681-1687.

T. Roušar, E. Nýdlová, P. Česla, P. Staňková, O. Kučera, P. Pařík, Z. Červinková et al., Purified Acetaminophen-Glutathione Conjugate Is Able To Induce Oxidative Stress in Rat Liver Mitochondria, *Physiological Research*, 61, (2012) S103-S109.

Abdel-Latif, Aly, Hrdina, El-Aref et al., A novel method for the preparation of silver/chitosan--methoxy polyethylene glycol core shell nanoparticles, *Journal of Polymers and the Environment*, 20, (2012) 459-468.

Luňák, Eliáš, Vyňuchal, Lyčka, Padělková, Hrdina et al., Structure, Z/E photoisomerization and an effect of (phenylene-)vinylene conjugation extension on absorption and fluorescence of methylidene-pyrrolinones, *Journal of Molecular Structure*, 1022, (2012) 159-166.

J. Roithová, Š. Janková, L. Jašíková, J. Váňa, S. Hybelbauerová et al., Gold–Gold Cooperation in the Addition of Methanol to Alkynes, *Angewandte Chemie (International Edition)*, 51, (2012) 8378-8382.

F. Bureš, H. Čermáková, J. Kulhánek, M. Ludwig, W. Kuznik, IV. Kityk, T. Mikysek, A. Růžička et al., Structure-Property Relationships and Nonlinear Optical Effects in Donor-Substituted

Dicyanopyrazine-Derived Push-Pull Chromophores with Enlarged and Varied pi-Linkers, European Journal of Organic Chemistry, Neuveden, (2012) 529-538.

J. Kousalová, O. Pytela, F. Bureš et al., Synthesis and coordination ability of tartrate-derived N-alkyl dicarbohydrazides towards Cu²⁺ ions, ARKIVOC, ix, (2012) 35-48.

T. Chlupatý, P. Pařík, Z. Padělková et al., 4,5-Diodo-2-phenyl-1H-imidazole, Acta Crystallographica Section E - Structure Reports Online, E68, (2012) o553–o554.

A. Imramovský, K. Pauk, Z. Padělková, J. Hanusek et al., Crystal Structure of the 5-Chloro Salicylamides: Three Different Types of the H-bonding Influenced Linear Chain Formation in the Solid State., Crystals, 2, (2012) 349-361.

Abdel-Latif, Hrdina, Burgert, Krylová, Abdel-Rahman, Krejčová, Steinhart, Beneš et al., Green synthesis of hyaluronan fibers with silver nanoparticles, Carbohydrate Polymers, 89, (2012) 411-422.

Drabina, Sedláč et al., 2-Amino-2-alkyl(aryl)propanenitriles as key building blocks for the synthesis of 5-member heterocycles, ARKIVOC, Part 1, (2012) 152-172.

P. Bajerová, K. Týčová, A. Eisner, M. Adam, M. Sedláč, K. Ventura et al., Determination of Amphotericin B in Rat Blood Plasma. Comparison of Antifungal Activity and Pharmacokinetics Profile of Conventional Amphotericin B and its Conjugate with Poly(Ethylene Glycol), Scientific Papers of the University of Pardubice, Series A, Faculty of Chemical Technology, 18, (2012) 5-16.

M. Danko, F. Bureš, J. Kulhánek, P. Hrdlovič et al., Spectral Properties of Y-Shaped Donor-Acceptor Push-Pull Imidazole-based Fluorophores: Comparison between Solution and Polymer Matrices., Journal of Fluorescence, 22, (2012) 1165-1176.

Abdel-Latif, Abdel-Rahman, Hrdina, Imramovský, Burgert, Aly et al., Antibacterial cotton fabrics treated with core-shell nanoparticles, International Journal of Biological Macromolecules, 50, (2012) 1245-1253.

Ponomarov, Laws, Hanusek et al., 1,2,4-Dithiazole-5-ones and 5-thiones as efficient sulfurizing agents of phosphorus(III) compounds - a kinetic comparative study, Organic & Biomolecular Chemistry, 10, (2012) 8868-8876.

Machalický, Lichý, Tomica, Hrdina, Šolcová et al., Photocatalysis of sulfo and carboxy derivatives of indigo in a TiO₂ slurry with the use of polychromatic irradiation, Reaction Kinetics Mechanisms and Catalysis, 101, (2012) 63-77.

M. Elsedik, N. Almonasy, M. Nepraš, F. Bureš, M. Dvořák, M. Michl, J. Čermák, R. Hrdina et al., Synthesis, absorption and fluorescence properties of N-triazinylderivatives of 2-aminoanthracene, Dyes and Pigments, 92, (2012) 1126-1131.

Váňa, M. Sedláč, Z. Padělková, J. Hanusek et al., Unexpected course of rearrangement of substituted S-(1(3H)-isobenzofuranone-3-yl)isothiuronium bromides, Tetrahedron, 68, (2012) 9808-9817.

T. Gonec, Bobál, Šujan, M. Peško, Guo, K. Králová, Pavlacká, Veselý, Křecková, J. Kos, Coffey, Kollar, Imramovský, L. Plaček, Jampílek et al., Investigating the Spectrum of Biological Activity of Substituted Quinoline-2-Carboxamides and Their Isosteres, Molecules, 17, (2012) 613-644.

Pinto, Hrdina, Kirsch, Oliveira-Campos, Rodrigues, Esteves et al., Synthesis of esters derived from 2,3,4-tri-O-benzyl-alpha-D-methylglucoside, ARKIVOC, Part 6, (2012) 185-193.

Imramovský, Štěpánková, Vančo, Pauk, Monreal-Ferriz, Vinšová, Jampílek et al., Acetylcholinesterase-Inhibiting Activity of Salicylanilide N-Alkylcarbamates and Their Molecular Docking, Molecules, 17, (2012) 10142-10158.

F. Josefík, M. Svobodová, V. Bertolasi, P. Šimůnek, V. Macháček, N. Almonasy, E. Černošková et al., A new bicyclic oxazaborines with a bridged nitrogen atom, their thermic rearrangement and fluorescence properties, Journal of Organometallic Chemistry, 699, (2012) 75-81.

A. Abdel-Latif, A. Aly, R. Hrdina, A. Montaser, A. Hebeish et al., Biomedical Textiles Through Multifunctionalization of Cotton Fabrics Using Innovative Methoxypolyethylene Glycol-N-Chitosan Graft Copolymer, Journal of Polymers and the Environment, 20, (2012) 104-116.

Bobál, Šujan, Otevřel, Imramovský, Padělková, Jampílek et al., Microwave-Assisted Synthesis of New Substituted Anilides of Quinaldic Acid, Molecules, 17, (2012) 1292-1306.

M. Tomášková, J. Chýlková, O. Machalický, R. Šelešovská, T. Navrátil et al., Voltammetric determination of different antioxidants in petroleum products by working gold electrode, International Journal of Electrochemical Science, (2012)