

Publications, Mohammed Bakir

- **M. Bakir & O. Brown**, "Synthesis, and molecular sensing behavior of *fac*-[Re(CO)₃(η^2 -N,N-dpksc)Cl], dpksc = di-2-pyridyl ketone semicarbazone" *Journal of Molecular Structure*, 1032 (2013) 118-125.
- **M. Bakir, C. McDermot, T. Johnson** " Spectroscopic, and electrochemical studies of [MCl₂(η^2 -N,N-dpksc)] (M = Zn, Cd, Hg and dpksc = di-2-pyridylketone semicarbazone)" *Journal of Molecular Structure*, 1040 (2013) 221-225.
- **M. Bakir & C. Gyles** "Molecular sensing behavior of the first molybdenum compound of di-2-pyridyl ketone-p-nitrophenylhydrazone (dpknph), [Mo(CO)₄(dpknph)], *J. Spectroscopy and Dynamics*, 4 (2014) 18.
- **M. Bakir, M. Lawrence and M. Singh-Wilmot**, 'Synthesis and characterization of a cadmium-dichloro compound of N,N,O di-2-pyridyl ketone thiophene-2-carboxylic acid hydrazone (3-dpktch). The structure of [CdCl₂ (η^3 -N,N,O-dpktch)], *J. Coordination Chemistry*, 60 (2007) 2385.
- **M. Bakir and C. Gyles** "Structural, spectroscopic and electrochemical properties of di-2-pyridyl ketone thiophene-2-carboxylic hydrazone" *J. Mol. Struct.* 833(2007) 161.
- **M. Bakir O. Green and W. Mulder** "Synthesis, characterization and optical behavior of a zinc compound of η^3 -N,N,O-bidentate di-2-pyridyl ketone benzoyl hydrazone (dpkbh) ZnCl₂(η^3 -N,N,O-dpbh)", *J. Mol. Struct.* 873 (2008) 17-28.
- **M. Padmanabhan, J. C. Joseph, S. Olsson, and M. Bakir**, "catena-Poly[aqua(propane-1,3-diamine 2N,N')copper(II)]- μ -fumarato- κ^2 O,O']monohydrate]" *Acta Cryst. E*64 (2008) m303.
- **M. Bakir, R. R. Conry, O. Green and W. H. Mulder**, 'Synthesis, spectroscopy, thermodynamics and structure of [ZnCl₂ (η^3 -dpktch)] (η^3 -dpktch = N,N,O- di-2-pyridyl ketone thiophene-2-carboxylic acid hydrazone)',*J. Coordination Chemistry* 61(2008) 3066-3079.
- **M. Bakir, R. R. Conry, and O. Green**, "X-ray crystallographic and molecular sensing properties of [ZnCl₂(κ^2 -N,N'-dpknph)] (dpknph = di-2-pyridylketone-p-nitrophenyl hydrazone)" *J. Mol. Struct.* 889 (2008) 35-44.
- **M. Bakir and O. Green** "Molecular sensing behavior of di-2-pyridyl ketone p-aminophenylhydrazone hydrate (dpkabh.H₂O) in non-aqueous media" *Spectrochimica Acta A: Molecular and Biomolecular Spectroscopy* A, 72 (2009) 50.
- **M. Bakir and C. Gyles** "Synthesis, Characterization and Structure of the First Rhenium Compound of Di-2-pyridyl ketone thiophene-2-carboxylic acid hydrazone (dpktah), *fac*-[Re(CO)₃(N,N- κ^2 -dpktah)Cl]", *J. Mol. Struct.* 918 (2009) 138.
- **M. Bakir, R. R. Conry, and O. Green**, "X-ray crystallographic, spectroscopic and electrochemical properties of [HgCl₂ (κ^2 -N,N'-dpktch)] (κ^2 -N,N'-dpktch = di-2-pyridyl ketone thiophene-2-carboxylic acid hydrazone)' *J. Mol. Struct.* 921 (2009) 51-57.
- **M. Bakir and O. Brown** "Synthesis, characterization and molecular sensing capability of *fac*-[Re(CO)₃(κ^2 -N,N-dpktsc)Cl] where dpktsc = di-2-pyridylketone thiosemicarbazone" *Journal of Molecular Structure* 930 (2009) 65-71.
- **M. Bakir, O. Green, and M. Wilmot-Singh** "Synthesis, spectroscopic, and X-ray crystallographic analysis of manganese compounds of di-2-pyridyl ketone thiophene-2-carboxylic acid hydrazone (dpktch): The reaction of Mn(CO)₅Br with dpktch" *Journal of Molecular Structure* 967 (2010) 174-182.
- **M. Bakir and C. Gyles**, "Synthesis and physicochemical properties of *fac*-[Re(CO)₃(κ^2 -N,Ndpkfah)Cl], dpkfah=di-2-pyridyl ketone 2-furoic acid hydrazone: themolecular structure of *fac*-[Re(CO)₃(κ^2 -N,N-dpkfah)Cl].acetone" *J. Coordination Chemistry*, 64 (2011)1743-1757.
- **M. Bakir, and O. Green** "Rhenium tricarbonyl chloro of di-2-pyridylketone 4-aminobenzoylhydrazone (dpk4abh), *fac*-[Re(CO)₃(η^2 -N,N-dpk4abh)Cl]: Synthesis, spectroscopic and electrochemical properties " *Journal of Molecular Structure* 996 (2011) 24-30.
- **M. Bakir and O. Brown**, "Spectroscopic and electrochemical properties of di-2-pyridylketone thiosemicarbazone [dpktsc] in non-aqueous media" *Journal of Molecular Structure* 1006 (2011) 402-408.

