Prof. Branislav Ž. Nikolić

University of Belgrade

Editor-in-Chief, Journal of Serbian Chemical Society

January 14th, 2019

Dear Professor Nikolić,

We wish to submit a manuscript for possible publication in the *Journal of the Serbian Chemical Society* as an *Original scientific paper*.

Title: Synthesis and crystal structure of copper(II) complexes with pyridoxal   
*S*-methylisothiosemicarbazone bearing a new coordination mode

Authors: Marko V. Rodić, Mirjana M. Radanović, Ljiljana S. Vojinović-Ješić, Svetlana K. Belošević, Željko K. Jaćimović, Vukadin M. Leovac

Corresponding author: Marko V. Rodić

The results presented are part of our ongoing research in the field of transition metal chemistry with thiosemicarbazone-based Schiff base ligands. The manuscript reports synthesis of two copper(II) complexes with pyridoxal *S*-methylisothiosemicarbazone in which tetradentate coordination mode of this ligand is found for the first time. Complexes are characterized by elemental analysis, conductometry, IR spectroscopy, and their structures are unequivocally determined by single crystal X-ray crystallography. The Cambridge Structural Database was surveyed for complexes with pyridoxal-based Schiff bases as ligands, revealing that the novel tetradentate coordination mode of the title ligand is an example of quite a few cases in which hydroxymethyl group of the pyridoxal moiety takes a role in coordination. We hope that this paper will be of interest to researchers in the field of structural coordination chemistry.

As a corresponding author, I warrant that the manuscript is original, has been written by the stated authors and has not been published elsewhere. The manuscript is currently not being considered for publication by any other journal and will not be submitted for such a review while under review by the Journal of the Serbian Chemical Society. The manuscript contains no libelous or other unlawful statements and does not contain any materials that violate any personal or proprietary rights of any other person or entity.

Finally, the names and addresses of potential Referees are provided:

Dr. Franc Perdih ([Franc.Perdih@fkkt.uni-lj.si](mailto:Franc.Perdih@fkkt.uni-lj.si))  
University of Ljubljana, Faculty of Chemistry and Chemical Technology, Ljubljana, Slovenia

Dr. Vladimir Arion (vladimir.arion@univie.ac.at)  
University of Vienna – Institute of Inorganic Chemistry, Vienna, Austria

Dr. Aleksandar Višnjevac (aleksandar.visnjevac@irb.hr)  
Ruđer Bošković Institute, Zagreb, Croatia

Dr. Slađana Novaković (snovak@vinca.rs)  
University of Belgrade, Vinča Institute of Nuclear Sciences, Belgrade, Serbia

Sincerely yours,

Marko Rodić