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Twentieth Annual Conference

YUCOMAT 2018

Herceg Novi, Montenegro, September 3–7, 2018

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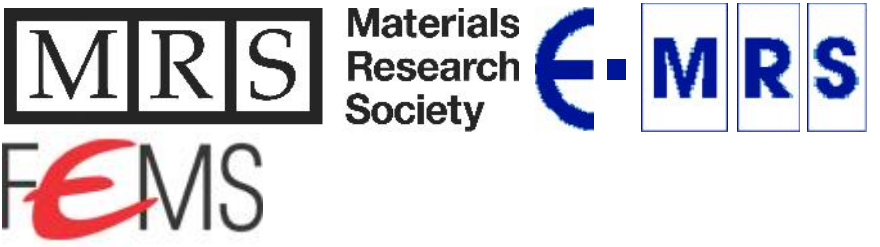

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Crystal structures of mixed chloride-azide zinc (II) and chloride-isocyanate cadmium (II) complexes with the condensation product of 2-quinolinecarboxaldehyde and girard's reagent

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The mixed chloride-azide $[ZnL(N_3)_{1.65}Cl_{0.35}]$ (1) and chloride-isocyanate $[CdL(NCO)_{1.64}Cl_{0.36}]$ (2) complexes have been prepared in the reactions of (E)-N,N,N-trimethyl-2-oxo-2-(2-(quinolin-2-ylmethylene)hydrazinyl)ethan-1-aminium chloride (HLCl) and the corresponding Zn^{2+} and Cd^{2+} salts by adding the NaN_3 and NaOCN, respectively. The structures of complexes 1 and 2 were determined by X-ray crystallography.

In complexes 1 and 2, Zn_1 and Cd_1 ions, respectively, are five-coordinated in a distorted square based pyramidal geometry with NNO set of donor atoms of deprotonated hydrazone ligand and two monodentate ligands N_3^- and/or N_3^- and Cl^- in the case of 1 and OCN^- and/or OCN^- and Cl^- in the case of 2.

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