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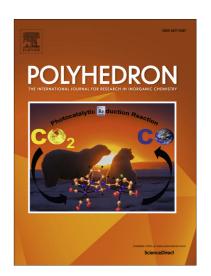
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Anion directed cation templated synthesis of three ternary copper(II) complexes with a monocondensed N_2O donor Schiff base and different pseudohalides

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Abstract

Three copper(II) complexes, $[Cu_2(L)_2(\mu_{1,1}-N_3)_2]$ (1), $[Cu_2(L)_2(\mu_{1,1}-NCO)_2]$ (2) and $[Cu(L)(\mu_{1,5}\text{-dca})]_n$ (3), where HL is a tridentate mono-condensed Schiff base, 1-(2-aminoethyliminomethyl)naphthalen-2-ol, and dca is dicyanamide, have been prepared and characterized by elemental analysis, IR, UV–Vis and fluorescence spectroscopy and single crystal X-ray diffraction studies. The Schiff base ligand was prepared by a counter anion mediated copper(II) templated synthesis. The azide ligand in complex 1 and the cyanate ligand in complex 2 show μ -1,1 bridging modes, whereas the dca ligand shows the μ -1,5 bridging mode in

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