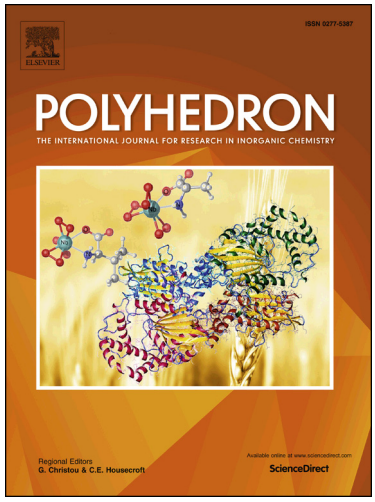

Synthesis of an Anionic Derivative of the Terpyridine Ligand

Mikhail D. Kosobokov, Teng Xue, David A. Vicic

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Mikhail D. Kosobokov, Teng Xue, and David A. Vicic

Department of Chemistry, Lehigh University, 6 E. Packer Ave., Bethlehem, PA 18015. Phone: 1-610-758-3466, Fax: 1-610-758-6536.

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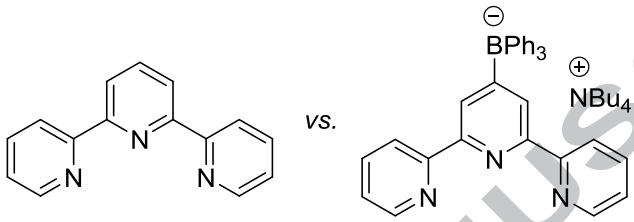

Abstract: A procedure for preparing a 4'-triphenylborate-substituted derivative of the 2,2':6',2"-terpyridine ligand is described. Such a modification renders the terpyridine ligand anionic, which enables unique design possibilities for coordination chemistries involving metal ions relative to the unsubstituted parent ligand. Proof-in-principle that this new ligand can coordinate to transition metals was provided through the synthesis of a novel nickel complex.

Keywords: ligand design; coordination chemistry; boron; electrochemistry; chelates