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New 1,1'-Binaphthyl Ligands for Enantioselective Catalysis

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Chiral binaphthyl compounds, especially those with different substituents in 2- and 2'-position of the binaphthyl system, have gained interest as constituents of successful ligands in various catalytic reactions. Here, we present the synthesis and characterization of new binaphthyl ligands containing oxazoline, cyano and amide substituents in 2'-position in addition to methoxy, hydroxy or amino groups in 2-position. Starting from these compounds new ligands for enantioselective catalysis will be accessible.

Key words: Binaphthyl Derivatives, Chirality, X-Ray Structure