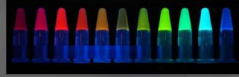


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O 21B - Dipyrin and BODIPY dyes through nucleophilic substitution in 1,9-dichloro-*H*-dipyrin. Sensor, optical and fluorescence properties

Andrey Khoroshutin, Mikhail Kuz'min, Tatyana Kuchinskaya, Yana Ramadan, Evgenia Leushina

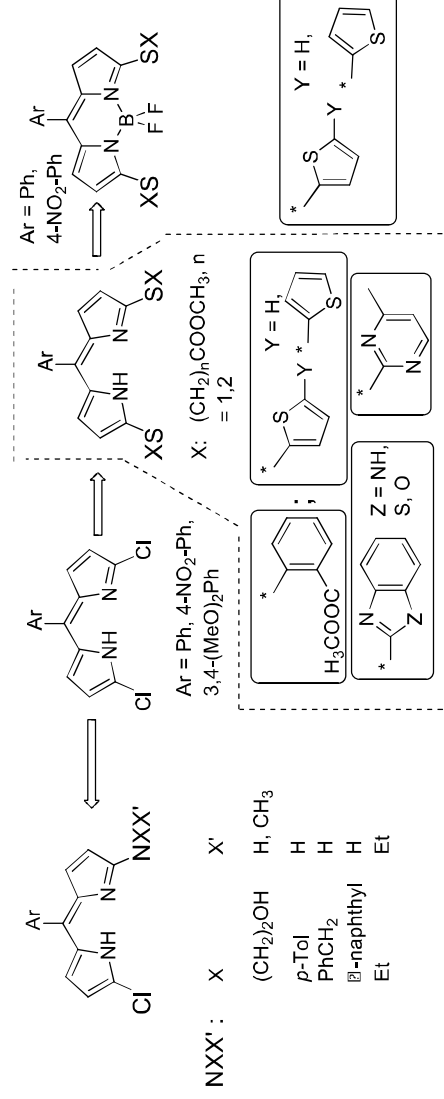
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Abstract

Dipyrins are well-known and widely studied complexing dyes that deserve attention due to prospective applications as sensors, components of molecular fluorescence and supramolecular switches. Still these molecules are much less focused at than their boron derivatives. Properties of both classes of dyes can be controlled by a judicious choice of peripheral substituents.

Inspired by a pioneering paper of Dehaen et.al. 1 devoted to BODIPY dyes, our group attempted a nucleophilic substitution of non-borylated 1, 9- dichlorodipyrins. Indeed, the SNAr substitution can be effected by N- and S-nucleophiles. Interestingly, dipyrins studied undergo one substitution with N-nucleophiles, whereas S-nucleophiles give rise to disubstituted products.

In this report, presented will be our recent studies regarding the synthesis of 1,9-disubstituted dipyrins, mono-1-substituted dipyrins and BODIPY dyes possessing pendant coordinating groups and their proton and metal ions binding properties, as well as spectral and photophysical features of both symmetric and asymmetric dipyrins.2-3



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