



EXPLORATION OF NOVEL N-RICH POLYAROMATIC: TETRAZO[1,2-B]INDAZOLE

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N-rich heteroaromatics possess fascinating optical and redox properties and have thus been applied in optoelectronics¹. While studying the reactivity of orthosubstituted s-Tetrazine^{2,3} (molecule A, Fig. 1), we recently observed an unusual intramolecular cyclization process with azide leading to unprecedented azaaromatic scaffolds: symmetric and non-symmetric Tetrazo[1,2-b]indazoles (B, C, D, Fig. 1)⁴. The discovery of this unique heteroaromatic system opens the door to a colorful chemistry as their absorption and emission strongly depend on the molecular structure. This work also aimed to understand the link between the core structure and eventual substituents to allow us to predict and control the optoelectronic properties of such scaffold. This communication will discuss the synthesis and the surprising variety of properties observed for this new polyaromatic-scaffold (coordination chemistry, optoelectronic properties, open-shell polyaromatic generation, etc)⁵.

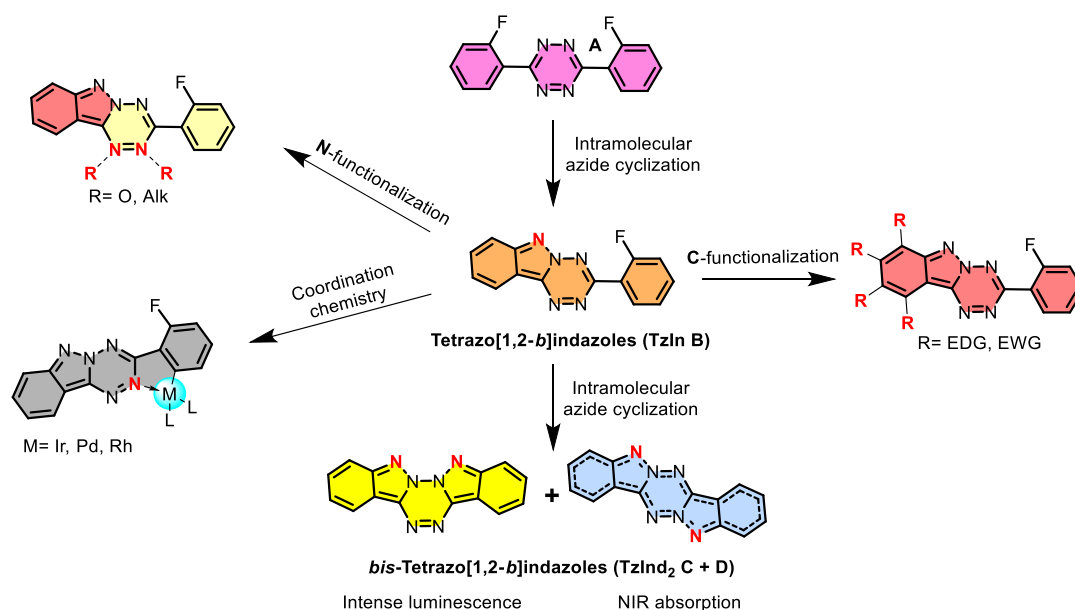


Figure 1: Different TzInd obtained from Tz A

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