

Internal Webinar

Thioketone based Luminescent Boron Compounds and Poly(indazole): Synthesis, Characterisation, Photophysical Properties and applications

Murali A C

NISER, Bhubaneswar

Four coordinated boron compounds and polymers have attracted a great deal of attention owing to their wide range of properties and applications. Three coordinate boron compounds are less stable in the presence of moisture due to their empty vacant p_z -orbital on the boron centre. As a result, a lot of effort has been paid by different groups in the design and synthesis of coordinatively saturated four coordinated boron compounds. Moreover, different approaches have been used to tune the photophysical properties of tetra-coordinated boron compounds, such as a) by changing the types of chelation around the boron centre (O,O-, N,O-, N,N-, N,C-) b) by changing the position of the hetero atom for the chelation of boron centre c) by changing the donor strengths of the substituents.

In this presentation, I will be discussing synthesis, characterisation, photophysical properties, and application of new type of tetra-coordinated S,O-, and N,N- chelated boron compounds.

Wednesday, Apr 24th 2024

14:30 Hrs

