External Stimuli Driven Transformation of BN-Heterocycles

BN-heterocycles have important application in synthetic methodologies, chemical reactivity and optoelectronics. Using external stimuli such as light, heat or electricity to drive chemical transformation and achieving new materials/novel species have been a key focus of our research group. We have recently discovered two important photo-transformation of BN-heterocycles, namely photoisomerization and photoelimination, which have potential applications in molecular switches and optoelectronics. This talk will focus on thermal and photo-transformations of BN-heterocycles and their applications in electroluminescent devices.