

MS15-P34 Solid state molecular packing and photoluminescence of platinum complexes based on 1,5-naphthyridin-4-olate ligands

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Four heteroleptic platinum complexes, FPtdmaND, FPtOPhND, FPtCzND, and FPtpxzND, have different molecular packing patterns, which affect their photoluminescence (PL) in solution and in solid state or doped thin film (of PS, CBP, 4P-NPB). Interestingly, these platinum complexes exhibited varied emission from greenish yellow to orange red wavelengths due to their monomeric and aggregate/excimeric emission, which is either substituent of 1,5-Naphthyridin-4-olate ligand (ND), concentration of dopant, or host material dependent.

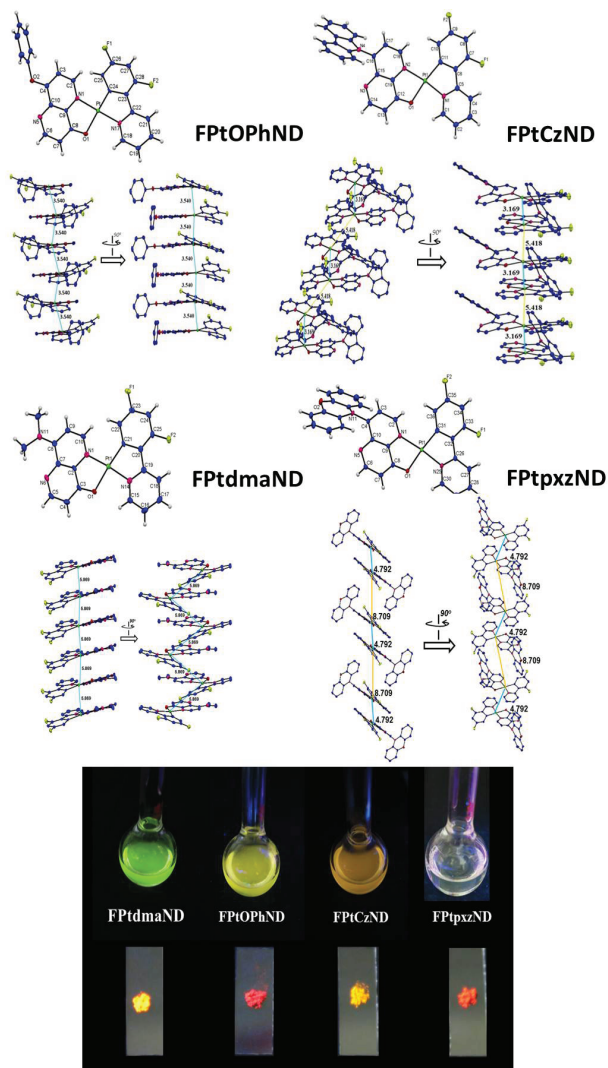


Figure 1. X-ray crystal molecular packing structure and photoluminescence image of four platinum complexes

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