

Unusual white emission from Triazine compounds

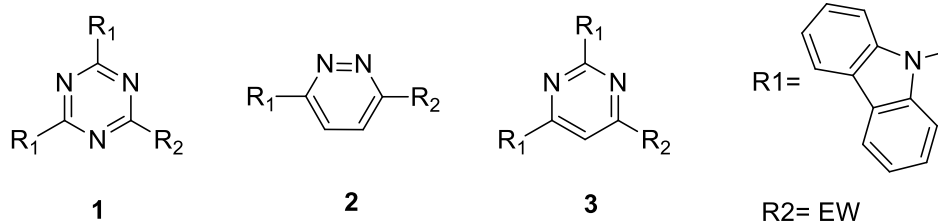
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We reported white emission based on dual emission of fluorescent and phosphorescent emission from triazole derivatives in the past.^{[1],[2]} Such white emission is very unusual in terms of dual emission of phosphorescence and fluorescence at room temperature.



Recently, we have extended this idea to another molecule and successfully obtained room temperature white mission derived from dual emission of fluorescence and phosphorescence.

Aromatic nitrogen heterocyclic compounds containing two carbazole substituents and one electron withdrawing substituents (**1-3**) are capable of emitting white light through the duel emission of fluorescence and phosphorescence.¹ This presentation will outline our recent studies into understanding factors influencing the dual emission of fluorescence and phosphorescence.

References

- [1] Kazunori Ueno, *et al.*, ICEL5, 2005, Arizona
- [2] Kazunori.Ueno, *et al.*, ICEL6, 2006, Hong Kong
- [3] Kazunori Ueno, *et al.*, ICEL2012, 2012,Fukuoka