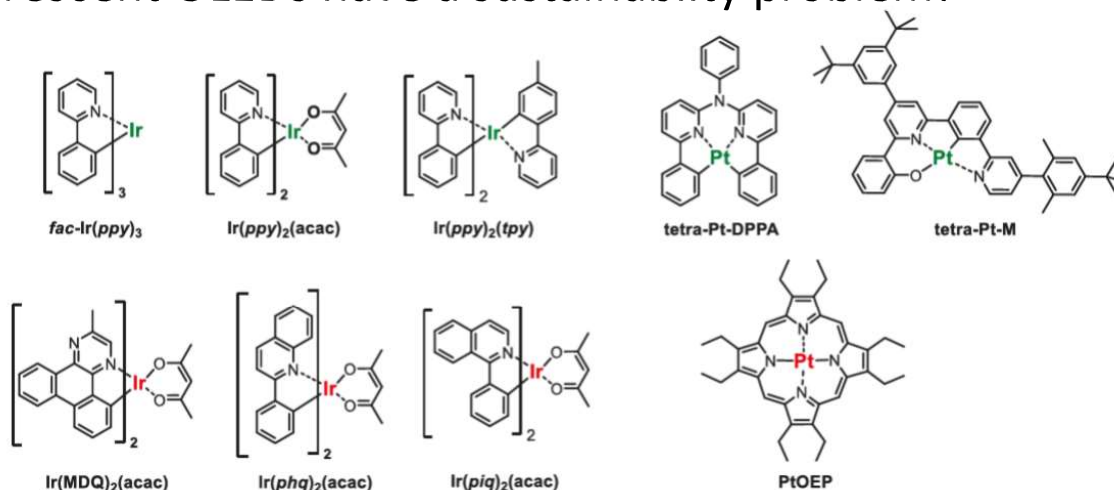


Biologically Inspired Organic Light Emitting Materials (BiOLEMs)



- OLEDs became over the last years the technology of choice for small displays
- Classic Phosphorescent OLEDs have a sustainability problem!



- Current Research¹ indicates that these are not only toxic but also bioaccumulate in fish

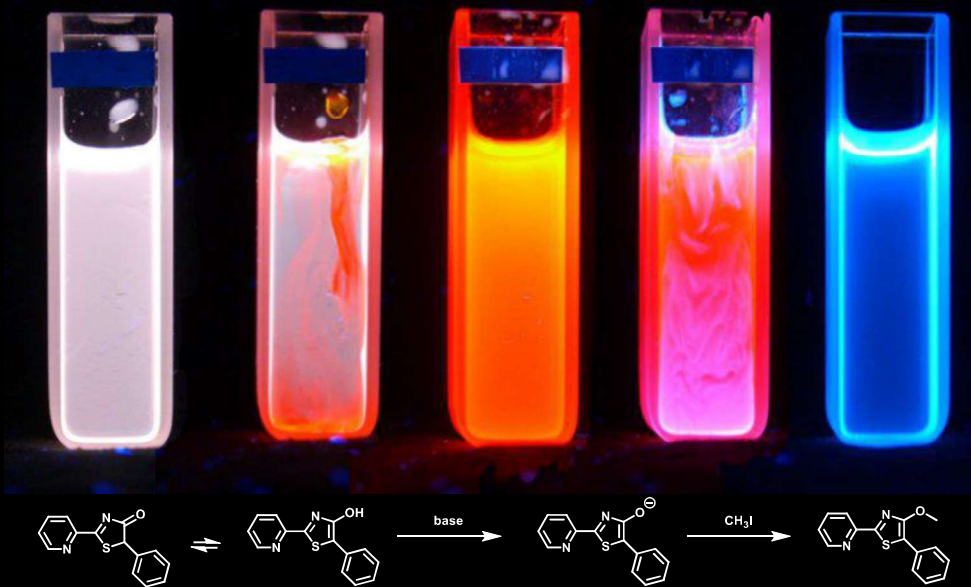
[1] J. Wang, J. Nan, M. Li, G. Yuan, Y. Zhao, J. Dai, K. Zhang, *Environmental Science & Technology Letters* **2022**, *9*, 739-746.

4-Hydroxythiazoles inspired by Firefly Luciferine

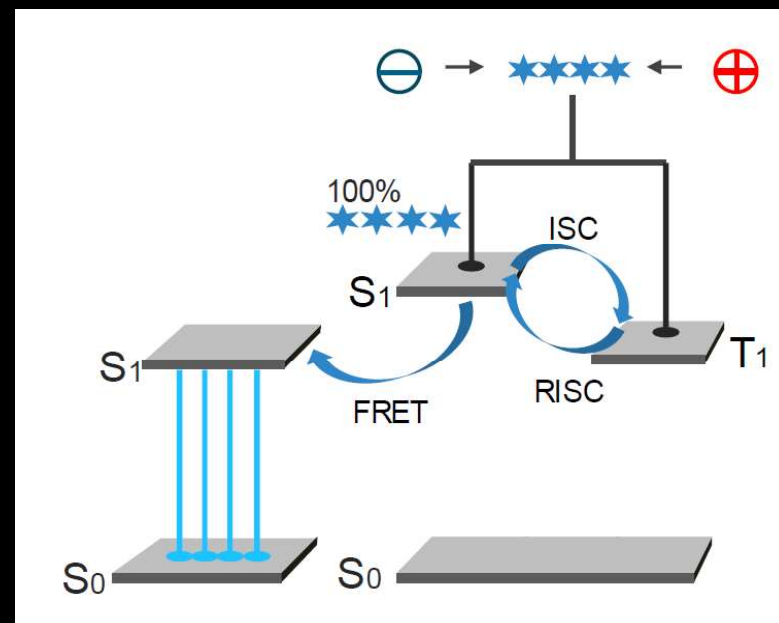
Firefly:



Bio-inspired Emitters:



Combination with innovative OLED Stack Designs



Hyperfluorescence

