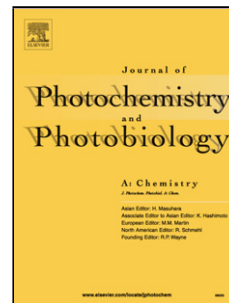


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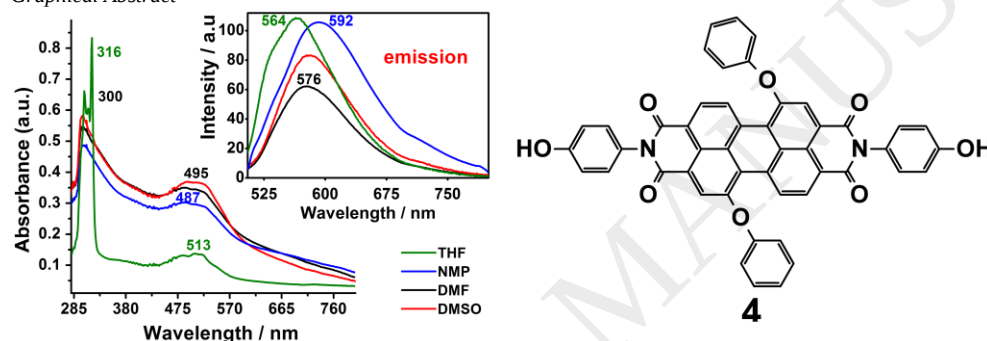
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Graphical Abstract



Highlights

- A novel π -conjugated 1,7-diphenoxy-peryene bisimide (peryene diimides, PDIs) (4) was synthesized starting from 1,7-Diphenoxyperylene-3,4,9,10-tetracarboxylic dianhydride.
- N,N'- bis(4-hydroxyphenyl)-3,4,9,10-perylenebis (dicarboximide) was synthesized and characterized also for the comparison between a symmetrically substituted perylene diimide and the bay substituted perylene diimide with the same substituents at the PDI imide positions.
- Positive and weak solvatochromic effect for the compounds 3 and 4 was apparently observed in polar media.
- The optical band gap energy is comparatively low for the bay-substituted perylene diimide dye 4 (1.79 eV) when compared to the band gaps of 1 and 3.

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