

Design and synthesis of organic nonlinear optical materials

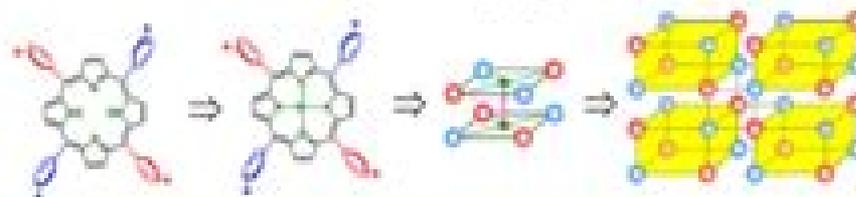
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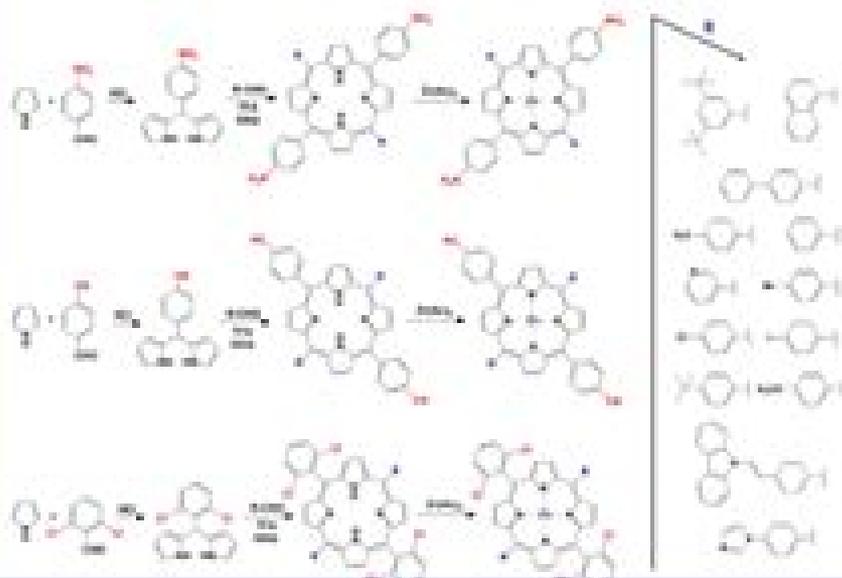
Abstract

Following the development of the idea of octapolar molecules as nonlinear optical materials a variety of compounds have been reported. Trans-porphyrins have a great potential to self-order into octapolar symmetry. Nonlinear optical properties can be tuned by using strong donor-acceptor groups in porphyrins as well as extension of conjugation. Here we report the synthesis of *trans*- A_2D_2 porphyrins and their dimerization into cubic octapoles by lanthanides and organic bidentate ligands. Bulky groups are employed to induce non-centrosymmetric eclipsed or staggered conformations. Effect of donor-acceptor groups, dimerization conditions and crystal packing of dimers are studied.

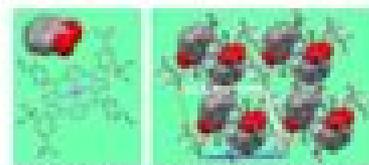
Dimerization of *trans*-porphyrins



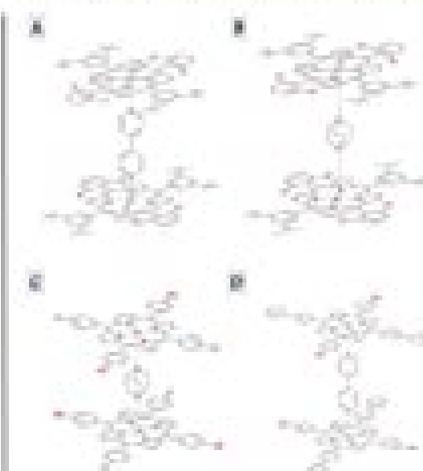
Synthesis of *trans*-porphyrins



Crystal Structure of Dimers

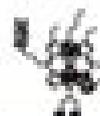


Dimerization with Bidentate Ligands



Summary

- Synthesized various *trans*- A_2D_2 porphyrins and metallo-porphyrins.
- Obtained new dimers with different bidentate ligands.
- The crystal structures of newly obtained dimers are being analyzed.



Acknowledgements

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