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## Photophysical and strong optical limiting properties of ball-type phthalocyanines dimers and their monomeric analogues

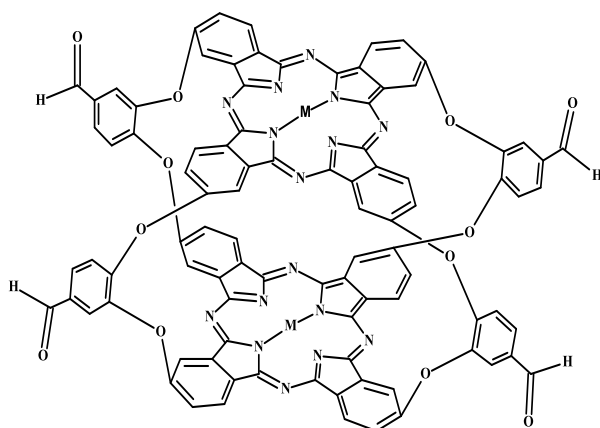
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### Graphical abstract



### Research Highlights:

- Ball-type tetrakis-[4,4'-((4-formyl-1,2-bisphenoxy))bis(metalphthalocyaninato)] were synthesized
- The nonlinear optical behavior of ball type complexes was improved compared to the monomeric derivatives
- Enhanced optical limiting properties were observed when the complexes were formulated in thin films.

### Abstract:

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