

先導物質化学研究所講演会

Molecular Design with a 3D Rigid π -Scaffold

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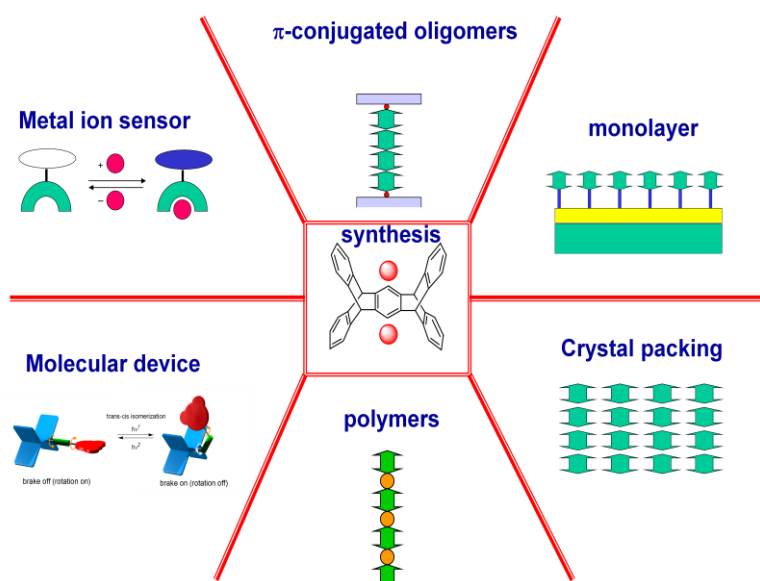
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Pentiptycene is a larger member than triptycene in the iptycene family. The nonplanar H-shaped rigid scaffold of pentiptycene contains a central phenylene ring that is sterically shielded by the peripheral phenylene rings. Such a structural feature has led us to explore its possible applications. For example, the nonplanar structure can function as a metal ion receptor in fluorescent chemosensors or as a 4-bladed molecular rotor in molecular devices. The bulky scaffold can also function as conformation regulator for molecular, supramolecular, and polymeric systems. The synthesis of pentiptycene derivatives relies on the central-ring prefunctionalized pentiptycene building blocks. A useful approach toward the preparation of these building blocks is the derivatization of pentiptycene quinone. In this talk, the story of our pentiptycene chemistry will be presented with an emphasis of the design concept.



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