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Showcasing research from Professor Yagai's laboratory,
Institute for Advanced Academic Research (IAAR),
Chiba University, Japan.

Toroid-rod supramolecular polymorphism derived from
conformational isomerism of a π -conjugated system

Hydrogen-bonded rosettes of dinaphthylethene
molecules show single-molecule self-sorting to afford
self-assembled nanorings and nanorods. Molecular
dynamics simulations proposed that conformational
isomerism of the π -conjugated systems leads to planar
and convex rosette geometries leading to distinct
stacking arrangements.

As featured in:



See Shiki Yagai *et al.*,
Chem. Commun., 2024, **60**, 1108.