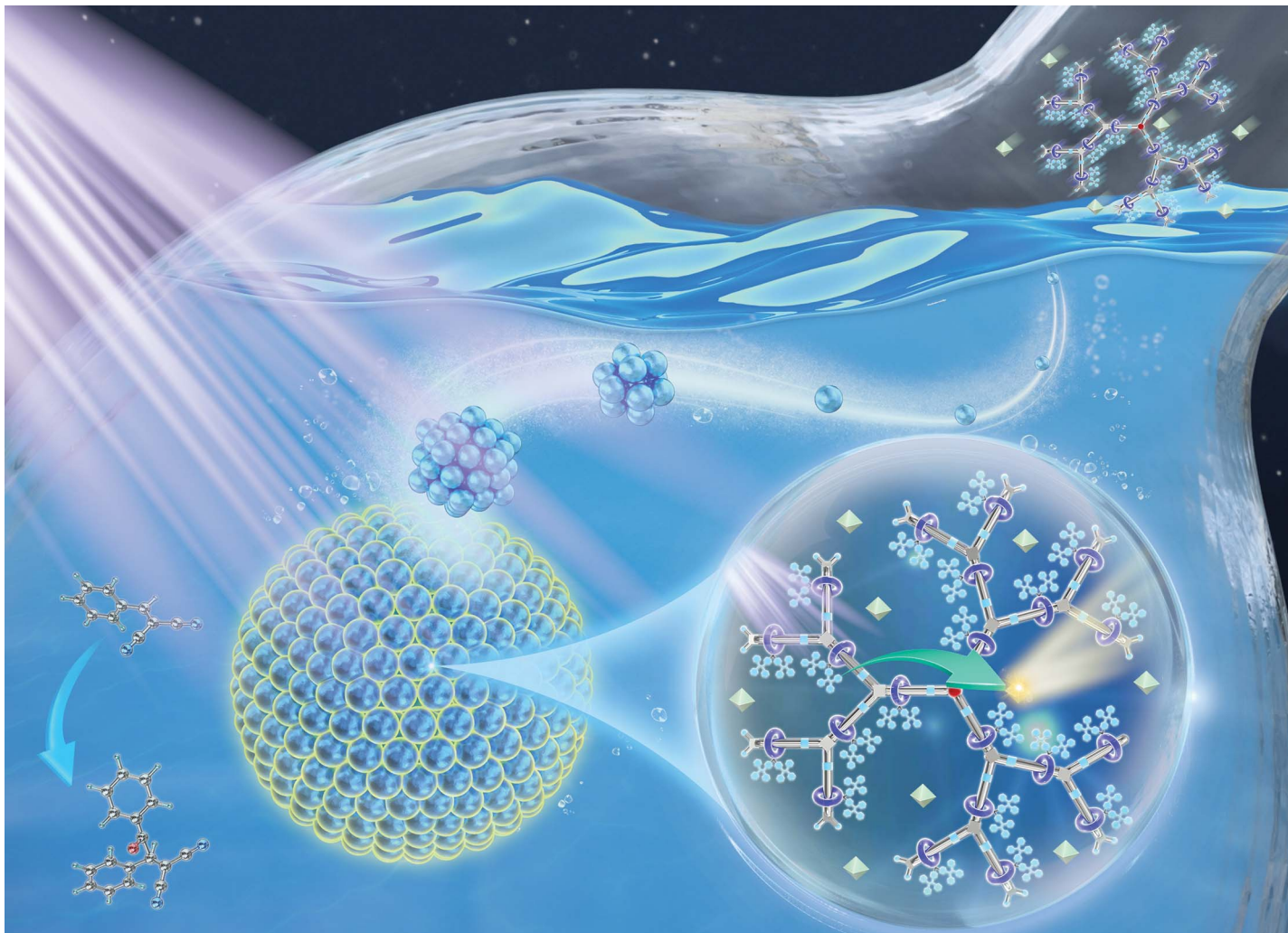




Showcasing research from Professor Hai-Bo Yang's laboratory, School of Chemistry and Molecular Engineering, East China Normal University, Shanghai 200062, China.

Artificial light harvesting systems based on novel AI-Egen-branched rotaxane dendrimers for photocatalyzed functionalization of C-H bonds

A novel type of AI-Egen-branched rotaxane dendrimers with up to 42 TPE units precisely distributed with the dendrimer skeletons have been successfully synthesized, based on which artificial light harvesting systems are further constructed through efficient FRET process and display interesting generation-dependent photocatalytic performances in the functionalization of C-H bonds.

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See Xu-Qing Wang,
Hai-Bo Yang *et al.*,
Chem. Sci., 2025, **16**, 5786.