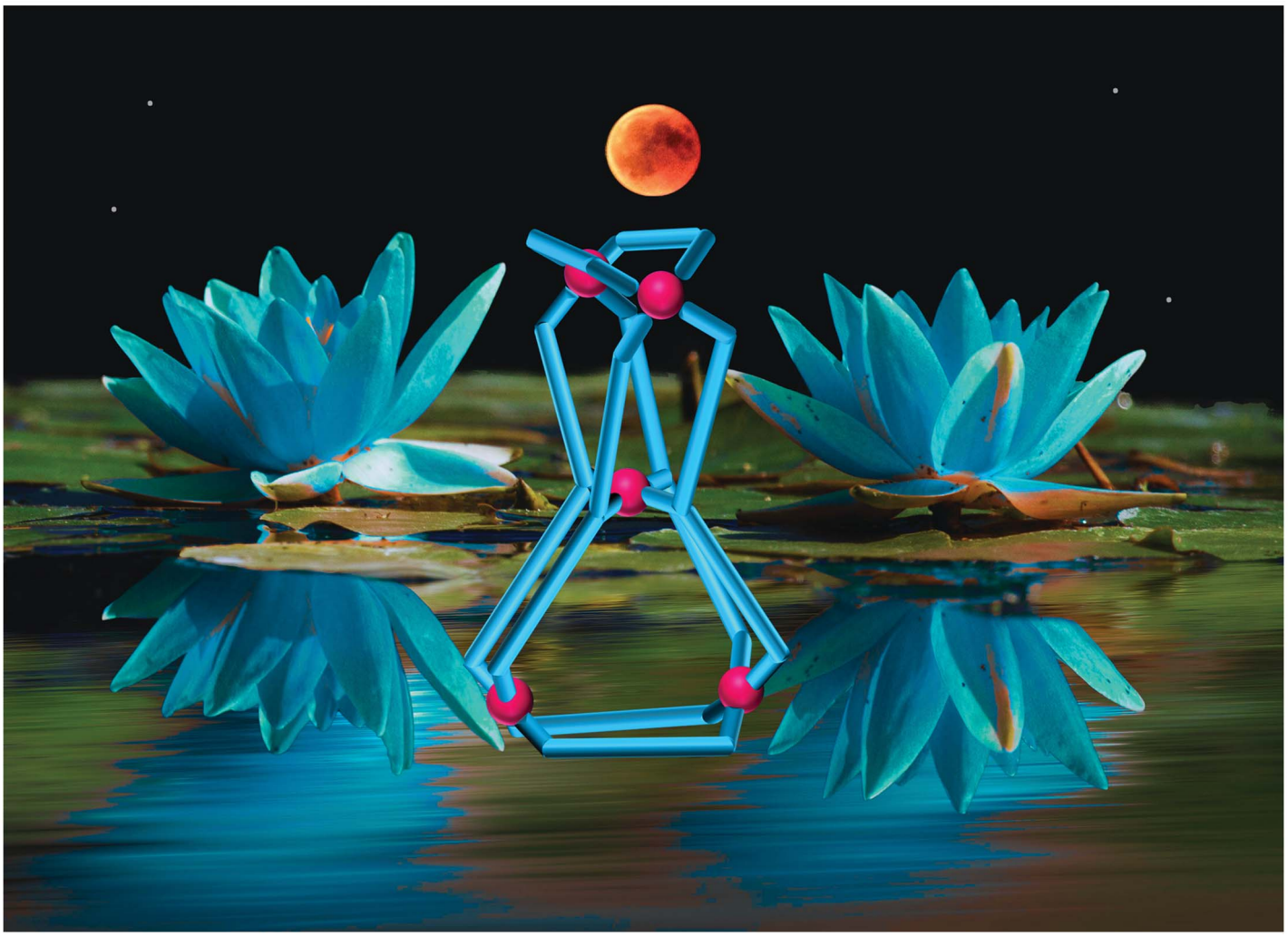

**Showcasing research from Professor Dillip K. Chand and group - IoE Center of Molecular Architecture, IIT Madras, India.**

A pair of conjoined trinuclear sub-frameworks in a pentanuclear double-cavity discrete coordination cage

In line with our "Tryst with MCDCC" (Multi-cavity Discrete Coordination Cages), we reveal here an architectural adventure undertaken at molecular level *via* integrative self-sorting of Pd(II) and designer organic ligands. Ever since we introduced a pair of conjoined dinuclear sub-frameworks in the form of a $Pd_3L_4$ type trinuclear double-cavity Pd(II)-based cage, we had a dream of conjoining a pair of trinuclear sub-frameworks too. A decade past the $Pd_3L_4$, enters the awaited $Pd_5L_4L'_4$ type pentanuclear double-cavity Pd(II)-based cage; also, the lower symmetry version of the mixed ligated cage.
Two Lotus Flowers by Pixabay, Lunar eclipse by Julia Barthold, both *via* Pexels.com.

## As featured in:


See Dillip Kumar Chand *et al.*, *Chem. Sci.*, 2024, **15**, 11287.

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