

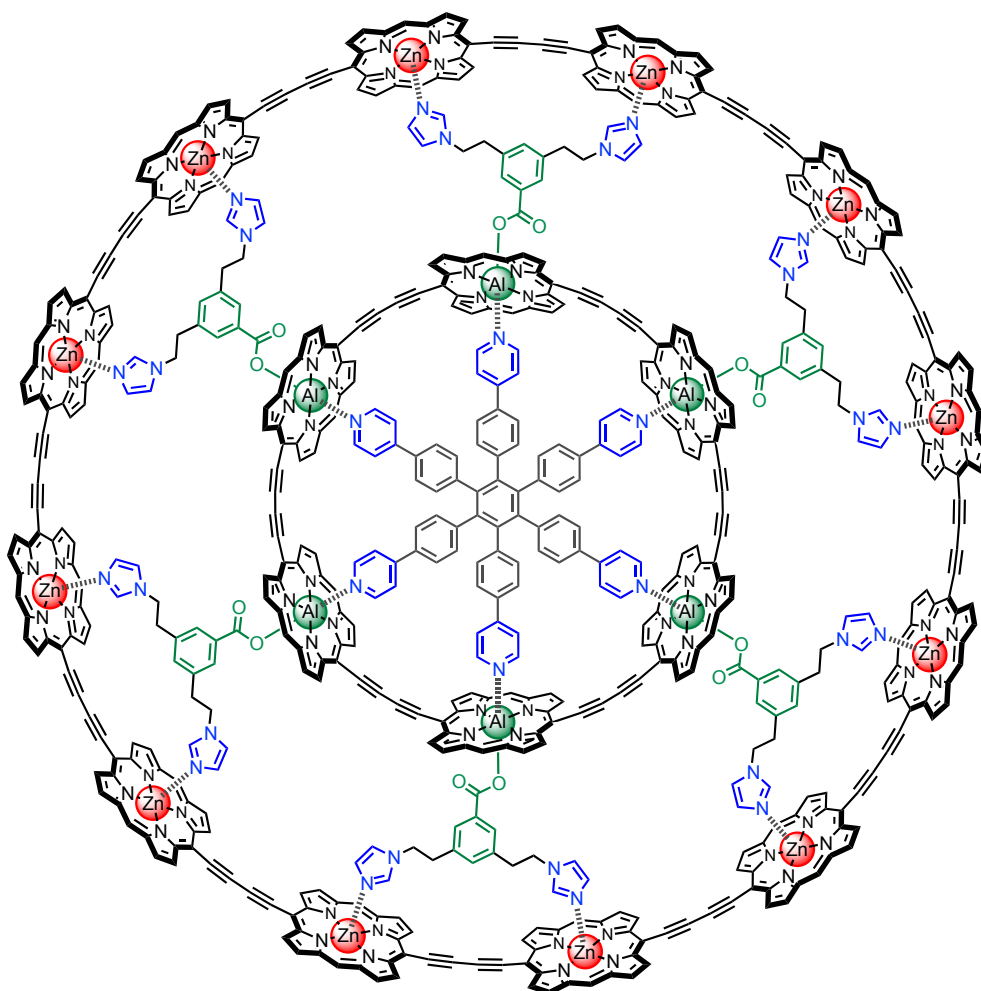
# Flow of Energy and Charge in Porphyrin Nanostructures

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This presentation will summarize recent advances in the synthesis of macrocycles consisting of up to 50 covalently linked metalloporphyrin units,<sup>1</sup> and ring-in-ring assemblies such as that shown below.<sup>2,3</sup> Results from a variety of techniques will be presented to provide insights into the flow and delocalization of charge and electronic excitation in these synthetic nanostructures.



1. Kondratuk, D. V., et al. *Nature Chem.* **2015**, 7, 317–322.
2. Neuhaus, P., et al. *Angew. Chem. Int. Ed.* **2015**, 54, 7344–7348.
3. “Self-Assembly of Russian Doll Concentric Porphyrin Nanorings”, Rousseaux, S. A. L.; Gong, J. Q.; Haver, R.; Odell, B.; Claridge, T. D. W.; Herz, L. M.; Anderson, H. L. *submitted*.