

π -Stack Architectures as Novel Fluorophores and Sensory Materials

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Abstract:

Control over aromatic interactions is critical for the formation of supramolecular architectures and optimization of optoelectronic device performance. A series of donor-acceptor complexes were studied to determine key factors governing π -stack formation, including the role of orbital symmetry. Strong coupling leads to attractive optical properties allowing the use of these unique architectures as fluorescent nanomaterials and in sensing schemes.