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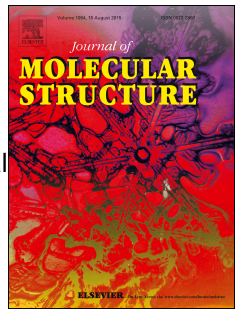

Two families of bis(imido) symmetrical Schiff bases: X-ray crystal structure and optical properties

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Graphic Abstract:

Two families of dimers provide longer alkyl bridges between two methoxy benzene rings and two thiophene rings (propane → butane → dodecane), while maintaining the same optical properties and the same spectroscopy mechanisms. Single crystal structures and DFT calculations were used to interpret their similarities and differences.