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Synthesis of π -conjugated coumarins and their derivatives for supramolecular applications

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By Kerba S. More; Sheshanath V. Bhosale

Abstract ^

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This chapter describes some recent developments of coumarin and its derivatives. It begins with a brief background of coumarin followed by various novel structural motifs and their new synthetic routes. We also explore the spectroscopic properties of new coumarin derivatives. Furthermore, a brief discussion of selected examples of coumarin and its derivatives used for ion sensing is provided. Advances in the supramolecular self-assembly of coumarins to form various nanostructures and the self-assembly and disassembly of vesicle structures with applications as drug agents as well as carriers for tumor-targeted drug release agents are also presented.

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