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Polymer materials have revolutionized our daily life by providing essential, peculiar and unique materials needed for our life. The synthesis of linear, branched, or cross-linked polymers are now well known, and individual polymeric architectures can be envisaged for specific applications in a diverse range of fields. Nowadays, the increasing demand for more sophisticated applications, especially in medicine and nanochemistry, has shifted the focus to the less polydisperse and more highly branched polymeric materials, commonly referred to as ‘dendritic polymers’ or dendrimers. This new class of polymers belongs to macromolecules with highly branched monodisperse structure, which provides them with several unique traits which are absent in the linear polymers.

This presentation will include the history and classification of dendrimers, their key synthesis, characterization and their common applications.

