

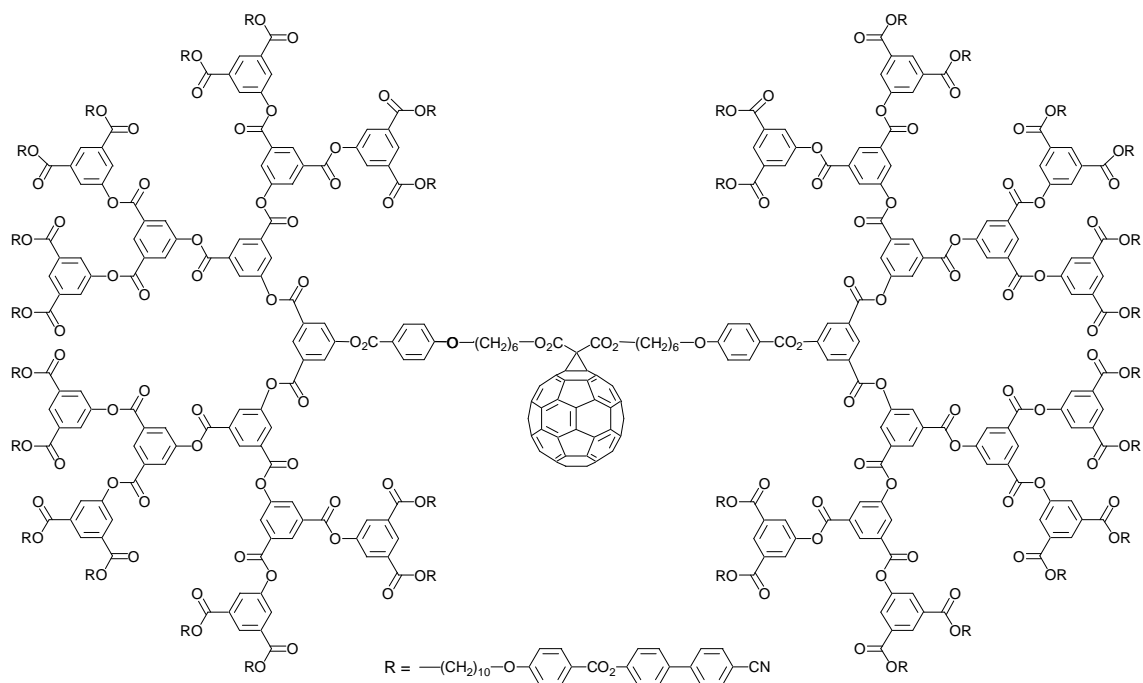
## Liquid-Crystalline Fullerenes : New Supramolecular Materials

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Functionalization of fullerene with liquid-crystalline malonates (Bingel-reaction) or aldehydes (1,3-dipolar cycloaddition reaction) led to materials showing

mesomorphic properties. The use of dendritic addends was particularly successful as the liquid-crystalline behavior and the supramolecular organization could be controlled as a function of the dendrimer generation, nature of the mesogenic groups, and molecular symmetry [1].

The synthesis, properties and supramolecular organization of liquid-crystalline mono-, bis-, and poly-fullerene derivatives will be presented.



[1] T. Chuard and R. Deschenaux, *J. Mater. Chem.* **2002**, 12, 1944.