

Materials Based on Fullerene Derivatives

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The range of potential applications of fullerenes and fullerene derivatives in materials science is becoming broader in virtue of the increased number of derivatives that are continuously produced. New opportunities arise from the combination of the fullerene properties with those of other classes of materials, such as polymers, electro- or photoactive units, liquid crystals, etc. In most cases, the new derivatives retain the main properties of the original fullerene, and it is now not unlikely that some functionalized fullerenes may find useful applications in the field of materials science and technology. With this talk we review the most recent achievements in the functionalization of fullerenes aimed at the production of new molecular materials.