



Radiation Effects in Polymer Hybrids

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Message from the Guest Editor

High-energy exposure has profound consequences for the structural configuration of polymer hybrids. Starting from the fragmentation of macromolecules guided by bond energies, the interaction between various classes of filler and host polymers brings about several changes in material behavior. For their extended applications, the stability of hybrids as well as changes in the thermal and mechanical properties of this class of compounds have to be emphasized. Improvement in durability is key for items to be able to operate in the long term. High-energy exposure achieved with electron beams or gamma rays is a versatile procedure for material qualification by accelerated degradation and a pertinent route for the internal inspections to determine the contribution of hybrid components to the material sciences. The manuscripts in this issue are envisaged to become starting points for other investigations simultaneously propelled by the competing approaches of “classical” material assessments.

