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Plasma Induced Degradation and Surface Electronic Structure Modification of Poly(3-

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hexylthiophene) Films

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Keywords: P3HT, oxygen, hydrogen, argon, plasma, thiophene oxidation, surface electronic structure.

Abstract

Plasma treatment is an environmentally friendly solution for modifying or nanostructuring the surface of several materials including photoactive polymers. The detailed characterization of the effect of plasma treatment on chemical and optoelectronic properties of photoactive polymers is, therefore, of specific

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