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Journal Of Environmental Polymer Degradation

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The environmental degradation mechanisms for plastics can be classified as either (i) physical, referring to changes in the bulk structure, such as cracking, embrittlement, and flaking, or (ii) chemical, referring to changes at the molecular level such as bond cleavage or oxidation of long polymer chains to create new molecules, usually with ...

Degradation Rates of Plastics in the Environment | ACS ...

It is crucial to remove heavy metals and dyes before discharging industrial effluents. Gauze substrate was surface-modified by coating with a polymeric adsorbent and a spray coating of BiOBr photocatalyst to develop a novel dual-functional membrane, polymer/BiOBr-modified gauze, for water remediation. The polymeric adsorbent was crosslinked to prevent the dissolving of the adsorbent during ...

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Hydrolytic degradation of polylactide films deformed by ...

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The present paper describes the application of Fourier transform infrared spectroscopy using internal reflectance elements to the determination of the degree of environmental aging of Hercules 3501–6 resin. The results indicate that degradation occurs via hydrolysis, oxidation, and dehydration reactions at specific locations in the polymer chain.

Environmental degradation of an epoxy resin matrix - Luoma ...

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Uwe Witt, Rolf-Joachim Müller, Wolf-Dieter Deckwer, New biodegradable polyester-copolymers from commodity chemicals with favorable use properties, Journal of Environmental Polymer Degradation, 10.1007/BF02068676, 3, 4, (215-223), (1995).