
Environmental Problems Caused by Polymers

Polyethylene (PE) is the largest-volume synthetic polymer, and its chemical inertness makes its degradation by low-energy processes a challenging problem. We report a tandem catalytic cross alkane metathesis method for highly efficient degradation of polyethylenes under mild conditions. With the use of widely available, low-value, short alkanes (for example, ...)

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Efficient and selective degradation of polyethylenes into Polyethylene Journal Rankings on Polymers and Plastics Advances in Polymer Technology | Hindawi

Polymer - Wikipedia

Over the past 50 years, polymer manufacturing has accelerated, from 2x10^6 metric tonnes (Mt) per year in 1950 to 381x10^6 Mt per year in 2015, and is expected to double in the next 20 years [1]. The total global production of plastics to date is estimated at 8300x10^6 Mt, with polyethylene being the most common polymer [2,3], accounting for ...

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Journal of Polymer Engineering - De Gruyter 07.09.2018 · Chemical degradation of PAM that leads to chain scission involves activation of the polymer by free radicals, 42,62,63,64,65,66 most commonly hydroxyl radicals generated in the environment from


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