

Photocatalytic Degradation of Ibuprofen and Ketoprofen

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The widespread use and availability of pharmaceutical and personal care products (PPCPs) has led to their prevalence in the environment. Wastewater effluent is the main source of PPCPs, which indicates the inadequacy of wastewater treatment plants (WWTP) in completely removing these pollutants from sewage.¹ The presence of the resulting degradation products in the environment poses a risk of long-term exposure, which can lead to chronic toxic effects for living organisms.

PPCP, allowing them to react with and break down pollutants.² The PCD of ibuprofen