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Decomposition of congo red, a well-known toxic azo dye, by irradiating a pulsed intense relativistic electron beam generator, ETIGO-III. Measurements by electrospray ionization-mass spectrometry and liquid chromatography/mass spectrometry indicated that 77% conversion of congo red was found after five shots of electron beam irradiation. (Takashi KIKUCHI et al., Plasma and Fusion Research Vol. 6, 1206021 (2011) http://www.jspor.jp/PFR/)