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Title: Efficient photocatalytic decolorization of some textile dyes using Fe ions doped polyaniline film on ITO coated glass substrate

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Statement of Novelty

This study involves a novel application of Fe ions doped Polyaniline which is a good alternative photocatalyst material with respect to existing literature. The Fe ions doped polyaniline matrix has been synthesized electrochemically in the presence of Fe(II) ion which was also converted Fe(III) ion during electropolymerization. The photocatalytic activity investigations of the Fe ions doped Polyaniline material showed that this system is very effective on degrading organic dyes under UV light. This article relates to the photocatalytic elimination of environmental pollutants and preparation of new polymer catalyst due to aims and scope of Journal of Hazardous Materials.

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