

Title (38)	:	Synthesis of Fe/Cu catalyst for photocatalytic diesel removal
Journal	:	AIP Conference Proceedings
Document Type	:	Conference Paper
Publisher	:	AIP Publishing
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Link to Full Text	:	https://pubs.aip.org/aip/acp/article-abstract/2923/1/040023/3279796/Synthesis-of-Fe-Cu-catalyst-for-photocatalytic?redirectedFrom=fulltext
Link to Scopus Preview	:	https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190700172&doi=10.1063%2f5.0195472&partnerID=40&md5=609bc827678243735d04250f494db36d
Abstract	:	The use of simple methods extraction via aloe vera gel (AVG) that acts as novel electrolyte in electrochemical system through the environmentally and safe green-mediated to produced Fe/Cu catalyst was described and reported in this work for the first time. Characterization of the nanoparticles were carried out using Fourier transform infrared (FTIR) spectroscopy. The present study was conducted aiming for removal of diesel from seawater medium using single and nanocomposite Fe/Cu catalyst. The parameters that influenced the performance photocatalytic were conducted in this investigation such as pH of solution, catalyst dosage, and initial concentration of diesel. The result was exhibit great remarkable on the performance of Fe/Cu catalyst with give 98.04 % of diesel degradation under light irradiation and poor performance was shown under dark condition.