



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	Ms_IRJPAC_35160
Title of the Manuscript:	Photocatalytic and physicochemical properties of pure and variously CeO ₂ -doped CuO-Fe ₂ O ₃ /cordierite system
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments	This manuscript report a mixture of 10wt% CuO-10wt% Fe₂O₃ supported on cordierite and CeO₂-doped (0.75-3 mol%) with different temperatures (500, 700 and 900°C) by wet impregnation. The effects of calcination temperatures and doping ratio on the crystalline phase, morphology, surface area were investigated by XRD, HR-TEM, N₂-adsorption-desorption. Moreover, their photocatalytic activities of samples calcined at 700°C on the degradation of a mixture of phenol, 4-chlorophenol and cresol were evaluated under UV irradiation. CeO₂-doping led to a progressive increase in SBET. Sample treated with 0.75 mol% CeO₂ and calcined at 700°C had the best photocatalytic activity. It should be accepted after minor revision. The optical properties of product should be analyzed and discussed. There are several typographical errors throughout the manuscript. This can be easily corrected by a careful checking of the manuscript.	



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<u>Optional/General</u> comments		
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Reviewer Details:

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