**SDI Review Form 1.6**

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| Journal Name: | **International Research Journal of Pure and Applied Chemistry** |
| Manuscript Number: | **Ms_IRJPAC_47606** |
| Title of the Manuscript: | **STUDY ON THE PHOTOCATALYTIC REDUCTION OF SOME METAL IONS IN AQUEOUS SOLUTION USING UV- TITANIUM DIOXIDE 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)

**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)* |
|---|---|---|
| **Compulsory** REVISION comments | **1 please mention the novelty of your process compared with other studies. Reduction reaction using photocatalyst was already done.**<br>**2 line 58, Cu(NO3)2**<br>**3 can you see the produced metal particle?**<br>**4 during reaction, some particle would be adsorbed on the surface of catalyst?** | 1. The UV-titanium dioxide system used in this thesis is novel. This project utilizes nano sized titanium dioxide (80% anatase, 20% rutile); the UV light source used is 15 W.<br>2. corrections on line 58 has been effected, thank you<br>3. some shiny particles were observed, especially in $Cu^{2+}$ reduction; however, analysis was not carried out to characterize the particles since it was not in the scope of the work.<br>4. minimal adsorption took place as was confirmed in a control experiment, but it was largely insignificant compared to other processes like photoreduction, precipitation and even photo-oxidation (in the case of Pb) |
| **Minor** REVISION comments | | |
| **Optional/General** comments | | |

**PART 2:**

| | **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)* |
|---|---|---|
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | |