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| Book Name: | [**Chemistry and Biochemistry: Research Progress**](https://www.bookpi.org/bookstore/product/chemistry-and-biochemistry-research-progress-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5522** |
| Title of the Manuscript:  | **Characterization and Assessment of the Photo-catalytic Efficiency of Palladium/Silver Doped TiO2Nanoparticles** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Journal of Applied Sciences and Environmental Management, 22 (9) 1369–1375, 2018.**

**DOI:** [**https://dx.doi.org/10.4314/jasem.v22i9.01**](https://dx.doi.org/10.4314/jasem.v22i9.01)

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback*(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimumof 3-4 sentences may be required for this part.** | The article investigates the synthesis, characterization, and photocatalytic performance of TiO₂ nanoparticles doped with palladium (Pd) and silver (Ag). The research aims to enhance the photocatalytic activity of TiO₂, particularly under visible light, addressing TiO₂'s known limitation of being primarily UV-active.he article demonstrates significant improvement in pollutant degradation (likely organic dyes or similar) under visible light, attributing this to enhanced charge separation and light absorption. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **YES** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **YES** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **YES** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **YES** |  |
| Is the language/English quality of the article suitable for scholarly communications? | GOOD |  |
| Optional/Generalcomments | GOODThe research presents valuable advancements in photocatalyst design, showing promising results for environmental applications. With minor additions to mechanistic and comparative discussions, the article could provide deeper scientific insights and broader applicability. |  |

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| **PART 2:** |
|  | Reviewer’s comment | Author’s comment*(if agreed with the 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 detail)* |  |

**Reviewer details:**

**S J Pradeeba, Hindusthan College of Engineering and Technology, India**