|  |
| --- |
|  |
| Book Name: | [**Chemistry and Biochemistry: Research Progress**](https://www.bookpi.org/bookstore/product/chemistry-and-biochemistry-research-progress-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4421** |
| Title of the Manuscript:  | **Photocatalytic Degradation of DiflouroTriazole Aceto- phenone using Ag-Fe codoped TiO2: Statistical Modeling and Optimization** |
| Type of the Article | **Book Chapter** |

|  |
| --- |
| 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.** | **This is a valuable study in the field of waste water remediation.This study could provide a green and more economical photocatalyst for water pollution removal. This type of photocatalyst could be utilized in new water treatment startegies with better results if nanoecotoxicity related to these could be correctly addressed.**  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **It is suitable** |  |
| 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. | **Appropriate** |  |
| **Is the manuscript scientifically, correct? Please write here.** | 1. There are many grammatical errors and lack of appropriate punctuations. Author kindly rectify the same.
2. Sentence clarity is missing. Reframe the sentence…… photoactivity to that of the commercial TiO2photocatalyst and (incomplete sentence)
3. Abbreviation once explained should be used as abbreviation afterward. Kindly rectify the same throughout the manuscript.
4. Incomplete data/sentence…. (India Active Pharmaceutical Ingredient [API] Industry Report n.d.).
5. Section heading need revision…. Experimental Design AndRsm
6. In equation 4, value should be 2.51 rather 2,51.. must rectify and crossceck the results accordingly.
7. Need sentence revision in section 3.3...
8. when catalyst dose varied. Incomplete sentence
9. Section 3.4 need revision to provide clearity of the text what author want to convey.. some lines are contradictory. Table 8 is used after table no. 2.. what about other table 3-7.. As quoted later.. table numbering should be revised.
10. Section 3.4.1 need reframing of the sentences to provide more realistic understanding of the results..
11. Main and interaction effect of variables incomplete sentence..
12. Section 3.4.2 need deep reision of results and sentence drafting to provide accurate information which is crucial for the authenticity of the research paper..Authors might have compiled the paper in hurry. Proof reading is not carried out. After completion of any sentence.. next sentence starts with uncapitalized word which seems that language proofing is also not performed.
13. What is VIF, SE coefficient, T,P.. author must elaborate each term depicted in table 3
14. Terms DF, Adj MS, F, P.. must be elaborated as caption to the table.
 |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **No:**Literature from 2021 onwards was not used in the study which refllects that this work is compilted/done 4 year back. Include recent literature to support the study which could provide more realistic picture of the work.1. Chen, Dingwang, and Ajay K Ray. 1999. 23 Applied Catalysis B: Environmental *Photocatalytic Kinetics of Phenol and Its Derivatives over UV Irradiated TiO 2*. <https://www.sciencedirect.com/science/article/pii/S0926337399000685>.Exact article link/doi should be given
2. Nagaveni, K.M.S. HegdeGiridhar Madras. 2003. “Photocatalytic Degradation of Various Dyes by Combustion Synthesized Nano Anatase TiO2.” *Applied Catalysis B Environmental* 45(1): 23–28. <https://www.researchgate.net/publication/223872196_Photocatalytic_degradation_of_various_dyes_by_combustion_synthesized_nano_anatase_TiO2>.Exact article link/doi should be given
 |  |
| Is the language/English quality of the article suitable for scholarly communications? | No .. need improvement1. There are many grammatical errors and lack of appropriate punctuations.
2. Sentence clarity is missing.
 |  |
| Optional/Generalcomments | The reviewer feels that this article is a valuable study and reviewer recommends revision to this manuscript. Some of the observations are as follows:1. The quality of this article is poor in current form. If author addresses all queries, it could be considered further.
2. Need a deep revision with more comparative and recent literature supported data.
 |  |

|  |
| --- |
| **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)* |  |

|  |
| --- |
| **Reviewer Details:** |
| Name: | **Nisha Sharma** |
| Department, University & Country | **Sant Baba Bhag Singh University, India** |