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| Journal Name: | [**International Research Journal of Pure and Applied Chemistry**](https://journalirjpac.com/index.php/IRJPAC) |
| Manuscript Number: | **Ms\_IRJPAC\_140106** |
| Title of the Manuscript: | **Characterization of the FCC catalyst for fluid catalytic cracking of atmospheric residue: application to the SORAZ FCC catalyst** |
| Type of the Article |  |

PART 1: Comments

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|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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 minimum of 3-4 sentences may be required for this part.** | **The study is very important in a vital and very important field in the process of cracking petroleum products and getting rid of the carbon content, which reflects the importance of the subject in supporting the petroleum industries.** |  |
| **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.** | 1. **Must include the exact name of the stimulus used.** 2. **Reference to the devices used to characterize the catalyst used** 3. **Add more details in the results and discussion section.** |  |
| **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.** | **It requires adding more recent references that include a comprehensive explanation of the importance of catalysts and their homogeneous and heterogeneous types.** |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | **Yes** |  |
| **Optional/General** comments | **Nothing** |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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:**

**Fouad Warid Mezaal, Iraq**