

Review Form 1.7

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| Journal Name: | Physical Science International Journal |
| Manuscript Number: | Ms_PSIJ_107704 |
| Title of the Manuscript: | EVALUATION OF SPECIFIC ACTIVITY CONCENTRATION OF 238U, 232Th AND 40K AND THEIRRADIOLOGICAL IMPACT IN SOIL AND RICE GRAINS FROM SOLID MINERAL MINING SITES IN IKWO LOCAL GOVERNMENT AREA OF EBONYI STATE, NIGERIA. |
| Type of the Article | Original Research Article |

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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) |
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| <p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p> | <p>The authors studied the Specific activity concentration of 40K, 238U and 232Th in Soil and rice grains from solid mineral mining place in the surrounding of a paddy land in Ebonyi state, Nigeria. The work is useful for scientific community, If the authors incorporate the following suggestions and comments.</p> <p>Not suitable in the present form</p> <p>Yes</p> <p>yes</p> <p>Concept of the manuscript is scientifically correct.</p> <p>Yes</p> <p>Suggestions and Comments</p> <ol style="list-style-type: none"> 1. The authors must rewrite the introduction part, because most of the sentences are directly taken from other research papers. 2. The authors didn't mention why they select this place for their study? 3. They studied the content of ⁴⁰K, ²³⁸U and ²³²Th in a mining place surrounded by paddy land. The authors have to discuss the significance of choosing a paddy land surrounded by a mining place. 4. They collected the samples below 150mm from the surface. What is the reason for considering the samples at this depth. 5. In the discussion part the observed results are compared with results obtained by Raza and Fetemeh in 2015 at Iran (8 years old one). what is the reason for comparing the result obtained in Ebonyi state, Nigeria with the results obtained in Iran? 6. The data mentioned in the tables 1-6 and figures1-6 are same. It is better to use either table or a figure. 7. In table I column 3, for the case of ⁴⁰K the activity concentration in the first farm with different positions varies from 6.56Bq/Kg to 214.37Bq/Kg and the average is 133.43. Explain the reason for considering the average of these quantities with huge variation. The same thing is seen in other tables. | |
| <p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p> | <p>Good</p> | |
| <p>Optional/General comments</p> | <p>The paper may be accepted after including the suggestions and comments.</p> | |

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PART 2:

| | Reviewer's comment | Author's comment <i>(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)</i> |
|---|--|---|
| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|---|
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