

Review Form 3

Journal Name:	Asian Journal of Applied Chemistry Research
Manuscript Number:	Ms_AJACR_123758
Title of the Manuscript:	Optimizing Tantalite Dissolution in Hydrofluoric-Sulphuric acid using Response Surface Methodology and Shrinking Core Model
Type of the Article	Original Research Article

General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1-reviewerhub.org/general-editorial-policy/>

Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1-reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1-reviewerhub.org/benefits-for-reviewers>

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
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.		
Are subsections and structure of the manuscript appropriate?		
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

Review Form 3

Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?		
Optional/General comments	<p>Title of the manuscript:</p> <p>Optimizing Tantalite Dissolution in Hydrofluoric-Sulphuric acid using Response Surface Methodology and Shrinking Core Model</p> <p>The dissolution of tantalite mineral from granitic pegmatite(Okpella, Northern Edo State, Nigeria) was investigated in this manuscript.</p> <p>The author designed the work by varying the parameters namely temperature, stirring speed, particle diameter, and mixed acids concentrations to investigate the dissolution rates of the mineral. Elemental and mineral compositions were determined with X-ray fluorescence and X-ray diffraction studies. Response Surface Methodology (RSM) and the shrinking core model were used to find the best combination.</p> <p>The approach to find the solution for the tantalite dissolution is excellent. Introduction part may be simplified. Need more clarity in the discussions of page number 5 and page number 7. The author referred considerable number of articles to write the discussion.</p>	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Mallika J
Department, University & Country	PSG College of Arts and Science, India