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| Book Name: | [**New Horizons of Science, Technology and Culture**](https://bookstore.bookpi.org/product/new-horizons-of-science-technology-and-culture-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5750** |
| Title of the Manuscript:  | **Estimation of the viscosity and the water content of silicate melts from melt inclusion data** |
| 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.**

**European Journal of Mineralogy, 6(4): 511-535, 1994.**

**DOI: 10.1127/ejm/6/4/0511**

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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 minimum of 3-4 sentences may be required for this part.** | **The study sets the stage for potentially significant research, analyzing the synergistic effects of these method for the estimation of the viscosity and the water content in hydrous silicate melts using homogenization measurements on melt inclusions in rock-forming minerals in granites and rhyolites from the Erzgebirge****It will offer insights into their respective roles and implications for practical applications.** |  |
| **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. | **Abstract:Please take note of the following comments for the study manuscript:Grammar and Language: It is essential to ensure that the language and grammar used in the manuscript are clear and concise, avoiding technical jargon that could obfuscate the significance of the study. Please verify that the subject-verb agreement, punctuation, and technical terms are used appropriately.****Content: The abstract is written clearly and concisely, summarizing the study's objectives, methods, key results, and conclusions. Additionally, it should emphasize the novelty and importance of the findings within the context of existing research and application of melt inclusions to determine****the viscosity.****However, the abstract was too short (128 words). The standard suggested abstract is <300 words****Please start the Abstract by a short introduction of the current problem(s) and the solution, based on the current study, in one or two lines** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **The study sets the stage for potentially significant research, analyzing the synergistic effects of these method for the estimation of the viscosity and the water content in hydrous silicate melts using homogenization measurements on melt inclusions in rock-forming minerals in granites and rhyolites from the Erzgebirge****It will offer insights into their respective roles and implications for practical applications.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **Consider citing a paper from 5 years back.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **Grammar and Language: It is essential to ensure that the language and grammar used in the manuscript are clear and concise, avoiding technical jargon that could obfuscate the significance of the study. Please verify that the subject-verb agreement, punctuation, and technical terms are used appropriately.**  |  |
| Optional/General comments | **It is essential to select appropriate and relevant keywords that precisely reflect the content of a manuscript and align with the study's focus. The chosen keywords should be specific and effective in increasing the paper's visibility to the intended audience. Moreover, arranging the keywords alphabetically is recommended to make it easier for readers to navigate and locate the study****The introductory section of a research paper should provide sufficient background information to enable readers to comprehend the research problem and its significance. It should culminate in a clear statement of the study's objectives****paragraph 2,5,7 add refrence** **When conducting a literature review, it is crucial to ensure that the references used are both up-to-date and relevant. The literature review should also demonstrate how the current study fills existing research gaps. To provide a comprehensive view of the subject, it is recommended to cite a paper from at least five years back****To make the research more engaging and accessible for readers, authors can create a graphical abstract and include it in the abstract or methodology section. The graphical abstract provides a visual representation of the study's key concepts and can help readers comprehend the research more effectively. Additionally, a well-designed graphical abstract can make the research more intriguing, encouraging readers to explore the study further.**1. **The paper contains multiple instances for equation rewrite it as an equation, not as a copy (equation 1-11) It is highly recommended that the authors review their work and replace all equation to ensure consistency and accuracy throughout the paper. This small but essential correction will help to avoid any confusion or misinterpretation of the information presented in the paper.**

**When presenting data in an academic setting, it is essential to ensure that graphs and tables are clear, well-labeled, and directly support the narrative. It is advisable to avoid presenting data redundantly in both text and figures. In addition, for figures containing multiple components, labeling them with letters such as a, b, c, etc.,** **is recommended to facilitate proper identification** **(Table 2. Most be table 1).****(Figure 1,3,11,13,15 not clear suggest write a pregraph explain each one )****Figure 4,a Scale bars not clear)****Figure 13,15and 16 not clearly explain the value in the table****Figure 10 confused to me add explain why peak7 increasing to be clear for reader****The interpretation of results is equally important and should be discussed in the context of the hypothesis and previous research (Please cite any related References). It is essential to highlight the implications and potential limitations of the study. This will clearly explain the results' significance and how they can be applied to further research****Regarding the journal format, Tables need to follow the journal format. This format ensures consistency and clarity, essential for accurately representing the data. By adhering to this format, one can ensure that the data presented is easily accessible and interpretable, allowing for informed decision-making**1. **Conclusion:The conclusion was reporting all the results.**

**The suggestion is to summarize the essential findings and their implications concisely, making it easier for the reader to understand the main takeaways Additionally, the text suggests providing recommendations for future research or potential applications of the findings. This will allow the reader to understand the work's importance and relevance better while also providing directions for further studies in the field.****temperature range between 600oC and 1000oC.****Overall Assessment:****Originality and Impact: Assess the manuscript's contribution to the field and its potential impact on future research or applications.** |  |

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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:**

**Hayder Khudhair Obayes Al-Janabi, Iraq**