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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.** | This paper presents a practical approach to estimating viscosity and water content in hydrous silicate melts from homogenization measurements of melt inclusions. It can investigate natural melts under difficult experimental conditions and to give a deeper insight into magmatic processes. By revealing melt evolution, this technique improves our knowledge of magma migration, crystallization and volatile behaviour. Finally, this work may be used to take a step forward in petrologic investigations and re-evaluate interpretations of volcanic systems. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Yes I agreeBased on the content summarized, the original title seems to effectively reflect the central focus of estimating melt viscosity and water content from melt inclusion data.  |  |
| 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. | The abstract provides a clear overview of the purpose, methodology, and key findings of the study. However, to enhance clarity and completeness, consider the following suggestions:1. Add a brief statement about the significance or applications of this method in petrology or magmatic studies, to emphasize its importance.
2. Specify the temperature range or conditions under which the measurements are applicable, if relevant.
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| **Is the manuscript scientifically, correct? Please write here.**  | Based on the information provided, the manuscript appears to be scientifically sound. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references cited in the manuscript are primarily foundational and relevant to the study of silicate melt inclusions, viscosity, and magmatic processes.  |  |
| Is the language/English quality of the article suitable for scholarly communications? | Based on the provided excerpts, the language and English quality of the manuscript appear to be generally suitable for scholarly communication.  |  |
| Optional/General comments | I recommend publication after minor revision. |  |

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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?**  |  |  |

**Reviewer details:**

**Randa Mohammed Osman, Egypt**