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| Book Name: | [**Chemical and Materials Sciences: Developments and Innovations**](https://www.bookpi.org/bookstore/product/chemical-and-materials-sciences-developments-and-innovations-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4299** |
| Title of the Manuscript:  | **Synthesis and Sensing Behavior of Pure and Doped BaTiO₃** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments |
|  | Reviewer’s comment | 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.** |  |  |
| **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. |  |  |
| **Is the manuscript scientifically, correct? Please write here.**  |  |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** |  |  |
| Is the language/English quality of the article suitable for scholarly communications? |  |  |
| Optional/General comments | The review manuscript is well-organized and provides valuable insights. However, it requires revisions to improve its clarity and readability for the audience. Below are my suggestions:1. In introduction section, The authors should incorporate theoretical studies previously reported in the literature to provide a comprehensive background for readers.
2. While the manuscript discusses various synthesis methods, it would be helpful to include comparative tables summarizing the results. This will allow readers to quickly grasp the key outcomes and differences between methods.
3. The discussion section would benefit from integrating theoretical insights with experimental findings to provide a more holistic perspective. Relevant references that can be included are: DOI: 10.1016/j.matpr.2023.01.410, DOI: 10.1016/j.matchemphys.2021.124434
4. The manuscript requires additional citations in specific sections (e.g., Sections 2.4–2.8 and Section 3). Furthermore, after Section 3, the authors must thoroughly revise the manuscript to ensure appropriate references are provided throughout to substantiate all claims.
5. While this section compares the sensing efficiency of pure and doped BaTiO3, the lack of references makes it difficult to justify the conclusions. The authors should include relevant references to support this comparison and also verify the accuracy and relevance of references cited in other sections of the manuscript.
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| **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?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** |
| Name: | **Himalay Kolavada** |
| Department, University & Country | **Sankalchand Patel University, India** |