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| Book Name: | [**Physical Science: New Insights and Developments**](https://bookstore.bookpi.org/product/physical-science-new-insights-and-developments-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6033** |
| Title of the Manuscript: | **High power piezoelectric characterization system (HiPoCS™)** |
| 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.**

**FERROELECTRICS, 569(1): 21–49, 2020.**

**Available:** [**https://doi.org/10.1080/00150193.2020.1791664**](https://doi.org/10.1080/00150193.2020.1791664)

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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 manuscript is vital for advancing piezoelectric device miniaturization by tackling the critical issue of heat generation from energy losses. It meticulously details how to characterize and separately determine dielectric, elastic, and piezoelectric losses, which is key to developing high-power density materials. The work comprehensively covers both electrical and mechanical excitation methods, emphasizing precise quality factor measurements for accurate piezoelectric loss quantification. This understanding is crucial for designing more efficient devices, pushing the boundaries of piezoelectric technology.** |  |
| **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. | **YES** |  |
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| Is the language/English quality of the article suitable for scholarly communications? | YES |  |
| Optional/General comments |  |  |

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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?** | *YES* |  |

**Reviewer details:**

**Mghaiouini Redouane, Ibn Tofail University, Morocco**