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| Book Name: | [**Current Research Progress in Physical Science**](https://www.bookpi.org/bookstore/product/current-research-progress-in-physical-science-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5016** |
| Title of the Manuscript: | **Preparation and characterization of copper oxide nanoparticle-determination of its structural and optical properties** |
| 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.**

**AIP Conference Proceedings 2770, 070003 (2023).**

**Available:** [**https://doi.org/10.1063/5.0140312**](https://doi.org/10.1063/5.0140312)

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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 explores the green synthesis method for the synthesis of CuO NPs that is eco-friendly and facile. * The combination of synthesis procedure and characterization techniques strengthens the contribution of this work to Nano/material science and chemical or electronics industry. * The manuscript contributes meaningfully to the ongoing effort to prepare different metal oxide nanoparticles from various routes and assess their various properties. * Advanced characterization techniques like XRD, DRS, Zeta Potential and FTIR have been incorporated. * However, the study lacks assessments of their potential biomedical safety and efficacy like cytotoxicity studies. * I recommend to include a discussion on the potential toxicity of the synthesized CuO NPs. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | * Consider revising it to: Preparation and Characterization of Copper Oxide Nanoparticle using Calotropis Gigantea leaf extract: Structural and Optical Characterization |  |
| 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 could mention size of NPs. |  |
| **Is the manuscript scientifically, correct? Please write here.** | * This manuscript is technical and sound. * But I believe some work has been already done on this topic. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | * There need to be more references. * Too many old references have been used. * Please add updated references. |  |
| Is the language/English quality of the article suitable for scholarly communications? | * A little refinement in language needed. * Yes, the article is well written. |  |
| 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?** | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewers:**

**Navera Rehan Pirzada, Dow University of Health Sciences (DUHS), Pakistan**