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| Book Name: | [**Chemistry and Biochemistry: Research Progress**](https://www.bookpi.org/bookstore/product/chemistry-and-biochemistry-research-progress-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5269** |
| Title of the Manuscript:  | **Synthesis and Characterization of Bio-Glycerol from Cameroon Palm Kernel Seed Oil** |
| 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.**

**Green and Sustainable Chemistry, 2022, 12, 28-40.**

[**https://doi.org/10.4236/gsc.2022.122003**](https://doi.org/10.4236/gsc.2022.122003)

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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 findings of the research are important in the development of green materials such as bio-glycerol that has the potential to replace the conventional glycerol gotten from petroleum products. The methodology explained in this manuscript can further help in the commercial production of bio-glycerol. The results should be compared with sythentic glycerol inorder to convince the reader that bio-glycerol is a potential alternative to the former.** |  |
| **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. | **“potential pharmaceutical, cosmetic and engineering applications.” Repeated twice in the abstract. The authors should rephrase the abstract.** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | 1. **Which method was used in the extraction of the oil from the kernel? Was it the mechanical or solvent method or the combined? Kindly clarify, because you mentioned both method in your abstract and materials but explained the mechanical process in the method.**
2. **Can the author add the pictures or schematic diagram that fully illustrate the bio-glycerol production and purification processes?**
3. **All result obtained should be compared with that of synthetic gylerol to prove that bio-glycerol obtained in this study is a potential alternative to the synthetic glycerol.**
4. **Which of the Figure illustrate the sulfur content?**
5. **Flash point was mentioned in the abstract but no mention of the equipment used in methodology.**
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| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **Over 90 % of the references did not fall within the last five years. The authors should kindly review more recent manuscripts to enhance the literature review and the discussion of results.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **The English quality needs to be improved on. There were some statements in the mauscriptes that were repeated more than once. An example is the various applications of glycerol.** |  |
| 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)* |  |

**Reviewer details:**

**Mercy Ogbonnaya, Tshwane University of Technology, South Africa**