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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\_4121** |
| Title of the Manuscript:  | **GO/rGO as Reinforcing Nanofiller in Carbon Fiber/Epoxy Resin Composite Systems** |
| 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.** | This manuscript is crucial for the scientific community as it explores the enhancement of carbon fiber/epoxy composites using Graphene Oxide (GO) and Reduced Graphene Oxide (rGO). It provides insights into improving interfacial interactions and mechanical properties, addressing the challenges of carbon fiber inertness. The findings have significant implications for various industries, including aerospace and renewable energy, advancing the understanding and application of advanced composite materials. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The title "GO/rGO as Reinforcing Nanofiller in Carbon Fiber/Epoxy Resin Composite Systems" is suitable as it clearly indicates the focus of the study on the use of Graphene Oxide (GO) and Reduced Graphene Oxide (rGO) as reinforcing agents in composite materials. |  |
| 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 is solid but could be enhanced by clearly stating the study's objectives at the beginning. Including specific quantitative results, such as percentage improvements in mechanical properties, would add clarity. Briefly mentioning methodologies like TGA and SEM, along with potential applications of the improved composites, would make it more informative and engaging for readers. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | The manuscript appears scientifically correct, discussing the interactions of graphene oxide (GO) and reduced graphene oxide (rGO) with carbon fiber in epoxy composites. It supports findings with thermogravimetric analysis (TGA) and scanning electron microscopy (SEM). However, verification of experimental methods and data analysis against established standards is essential for complete accuracy and validity. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references in the manuscript are a mix of foundational and recent studies, but they could be more current. Including additional recent studies on graphene oxide and reduced graphene oxide in composite materials would enhance the manuscript's relevance. Recent reviews and research articles focusing on novel applications and methods for improving interfacial properties would provide a broader context and strengthen the findings. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language and English quality of the article appear to be generally suitable for scholarly communication. The manuscript uses technical terminology appropriately and conveys complex ideas clearly. |  |
| Optional/General comments | The manuscript effectively explores the interactions between graphene oxide, reduced graphene oxide, and carbon fiber in epoxy composites. However, it could benefit from improved clarity and organization, more recent literature, detailed methodology, and a stronger conclusion. |  |

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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:** | **Mohammed Yusuf** |
| **Department, University & Country** | **Northeastern University, United States** |