

## Review Form 1.7

Journal Name:	<b>Journal of Energy Research and Reviews</b>
Manuscript Number:	<b>Ms_JENRR_100134</b>
Title of the Manuscript:	<b>Density Functional Theory Study of the Effect of Mono-Halogen Substitution on the Electronic and Non-Linear Optical Properties of Porphyrin</b>
Type of the Article	<b>Original Research Article</b>

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljenrr.com/index.php/JENRR/editorial-policy> )

## Review Form 1.7

### PART 1: Review Comments

	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)
<p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><b>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</b></p>	<p>1. <b>Yes</b>, the manuscript important for scientific community</p> <p>2. <b>Yes, the title of the article suitable</b></p> <p>3. Abstract is very shallow. The abstract should contain a very brief account of the aims, methods, key findings, and conclusions of a study with a couple of sentences from each part</p> <p>4. <b>Subsections and structure of the manuscript appropriate, however, a flowchart should be added to the article to show how the research methodology was conducted.</b></p> <p>5. <b>Yes, to some extent</b></p> <p>6. <b>Most recent references should be replaced by the old ones</b></p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>		
<p><b>Optional/General</b> comments</p>	<p>Reviewer comments to Author: Authors have performed Density Functional Theory Study of the Effect of Mono-Halogen Substitution on the Electronic and Non-Linear Optical Properties of Porphyrin This manuscript needs minor revision before it could be considered for publication</p> <p>1. The introduction should detail the aim and goals of the study by referring to the most recent available literature studies and explaining how the undertaken studies would make these goals possible. The introduction part of the manuscript should be improved to contain most recent literature review regarding Density Functional Theory Study of the Effect of Mono-Halogen Substitution on the Electronic and Non-Linear Optical Properties of Porphyrin.</p> <p>2. Author should describe how the studied compound was optimized before computing molecular geometry of the compound? Also, state the computational software employed.</p> <p>3. Under section 3.0, author stated that "all the calculations were carried out at the level of Density Functional Theory (DFT), with B3LYP and using 6-311++G (d, p) basis set". Author should explain why this option was selected</p> <p>4. A flowchart should be added to the article to show how the research methodology was conducted.</p> <p>5. Author should explain novelty of this study.</p> <p>6. Conclusion part: The conclusion should include the most important findings and the outcomes thereof. The future perspectives are also expected to be mentioned in this part.</p>	

### 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)
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

**Review Form 1.7**

**Reviewer Details:**

Name:	<b>Olasupo Sabitu Babatunde</b>
Department, University & Country	<b>Nigeria</b>