

Review Form 1.7

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

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>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>1- This manuscript is important for scientific community because results obtained from this study shows that the hybrid halogenated compound may be utilized as an application in sensor and solar cells.</p> <p>2- yes, however, we suggest the following reformulation: Density Functional Theory Study of the Effect of Mono-Halogen Substitution on Electronic and Non-Linear Optical Properties of Porphyrin</p> <p>3- The abstract of the article is comprehensive</p> <p>4- Subsections and structure of the manuscript are appropriate</p> <p>5- Yes, I think this manuscript is scientifically correct</p> <p>6- Yes</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>The document is well written and results are well discussed. However, the authors have to consider the following suggestions and comments:</p> <ul style="list-style-type: none"> - Revise the numbering of subsections 2.1 DENSITY FUNCTIONAL THEORY and 2.1 Global Chemical Reactivity Descriptors (GCRD) - Harmonize the drafting of References: <ul style="list-style-type: none"> - some years are in bold and some are not - The page numbers are indicated for some references and others not: this is the case of references: Badran H.M., Ammar H.Y., Kh.M. Eid, DFT and TD-DFT studies of halogens adsorption on cobalt-doped porphyrin: Effect of the external electric field. https://doi.org/10.1016/j.rinp.2021.103964 Bhaskar Chilukuri *, Ursula Mazur and K. W. Hipp Structure, Properties, and Reactivity of Porphyrins on Surfaces and Nanostructures with Periodic DFT Calculations. <i>Appl. Sci.</i>2020, 10 740; doi:10.3390/app10030740 	
<p>Optional/General comments</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>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

Name:	Bede Affoué Lucie Epse Bagayoko
Department, University & Country	University Félix Houphouët-Boigny, Côte d'Ivoire