

Review Form2

Book Name:	Current Research Progress in Physical Science
Manuscript Number:	Ms_BPR_2021
Title of the Manuscript:	Synthesis, characterization of N,N-dimethyl aminophenylschiff's base-chalcone hybrid by in silico and in vitro studies.
Type of the Article	Book Chapter

PART 1: Review Comments

Compulsory REVISION 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. Why do you like (or dislike) this manuscript? A minimumof3-4 sentences may be required for this part.	This manuscript is important for the scientific community as it provides a detailed study of a novel N,N-dimethyl aminophenyl Schiff's base-chalcone hybrid, integrating both synthetic and computational chemistry with biological evaluation. Such comprehensive research is crucial in the field of drug discovery, as it explores new compounds with potential therapeutic applications, particularly in anti-inflammatory and anti-diabetic treatments. The combination of in silico and in vitro methods offers a robust understanding of the compound's properties and mechanisms of action.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title of the article, "Synthesis, Characterization of N,N-Dimethyl Aminophenyl Schiff's Base-Chalcone Hybrid by In Silico and In Vitro Studies," is generally suitable as it accurately reflects the key aspects of the study	
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 provided for the article is comprehensive, covering key aspects such as the synthesis and characterization of the compound, theoretical and experimental studies, and the compound's biological applications.	
Are subsections and structure of the manuscript appropriate?	The manuscript is structured into several key sections, which seem to be appropriately organized for a scientific paper in the field of chemistry, particularly focusing on the synthesis and analysis of chemical compounds.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimumof3-4 sentences may be required for this part.	The manuscript demonstrates scientific correctness and robustness through its meticulous approach to both experimental and theoretical studies. The synthesis of the N,N-dimethyl aminophenyl Schiff's base-chalcone hybrid is clearly described with appropriate methodologies, ensuring reproducibility and accuracy. The use of various analytical techniques, such as NMR, FT-IR, UV-visible spectroscopy, and mass spectrometry, provides comprehensive characterization of the compound, confirming its structure and purity. Additionally, the inclusion of Density Functional Theory (DFT) calculations and molecular docking studies adds a theoretical dimension that supports the experimental findings, offering deeper insights into the compound's reactivity and potential biological interactions. This thorough integration of experimental and computational data underlines the manuscript's scientific validity and technical soundness.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references in the document are quite comprehensive, covering a range of studies and publications on chalcones and Schiff bases. The list includes several recent sources, such as the 2020 and 2021 publications, which demonstrate the relevance and currency of the research	

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Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	It is suitable for scholarly communication	
Optional/General comments	Synthesis and Characterization: Includes details on the synthesis of compounds and their structural confirmation using various spectroscopic techniques such as FT-IR, UV-visible, and NMR spectroscopy.	

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)	

Reviewer Details:

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