

## Review Form 1.6

Journal Name:	<a href="#">Asian Journal of Applied Chemistry Research</a>
Manuscript Number:	Ms_AJACR_83534
Title of the Manuscript:	Linear optical absorptions of photo/thermochromic organic molecules interacting with a gold nanoparticle
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.journalajacr.com/index.php/AJACR/editorial-policy> )

### 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)
<b>Compulsory</b> REVISION comments	<p>This manuscript is of good quality, well written, clear and deals with a topical subject. Please, find below some recommendations in order to improve it:</p> <ol style="list-style-type: none"><li>1- In the "computational approach", the author did not specify whether he followed the geometry optimization by frequency calculations in order to check the local minima for the three molecules studied.</li><li>2- The author should add values of dipole moment as well as static polarizabilities of the three optimized molecules.</li><li>3- The author should summarize the experimental results gathered in the literature (with regard to the redshift with Ag and Cu) in a table to better elucidate the comparison with his theoretical results.</li></ol>	
<b>Minor</b> REVISION comments	<ol style="list-style-type: none"><li>1-The author should add the abbreviation (DHA/VHF) after dihydroazulene/vinylheptafulvene, in the abstract section.</li><li>2-Please, put numbers in each section within the "Results and discussion" part.</li><li>3-In the "computational approach", please, reformulate the first paragraph as following: A full geometry optimization, of the three molecules studied, has been performed, in gas phase. Calculations have been done by Gaussian09 program. The optimized structures were subsequently....</li><li>4-Reformulate the third paragraph of "Results and discussion" section as: Each of the three molecules are placed <b>towards</b> the nanoparticle in three different ways.</li><li>5-The author should check some grammar mistakes all along the text.</li><li>6-The form of bibliographic references should be revised. Example: Reference (6).</li></ol>	
<b>Optional/General</b> comments		

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(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)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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