

## Review Form 1.7

Journal Name:	<b>Journal of Materials Science Research and Reviews</b>
Manuscript Number:	<b>Ms_JMSRR_97071</b>
Title of the Manuscript:	<b>Study of Isothermal Parameters for Adsorptive Uptake of Orange G dye: An Overview of Non-linear Approach and Error Analysis</b>
Type of the 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://journaljmsrr.com/index.php/JMSRR/editorial-policy> )

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### 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. The manuscript compares the error functions in approximating the error distribution between the experimental and predicted isotherms for Orange G dye adsorptive uptake onto almond endocarp and tamarind seeds. The predicted Langmuir, Freundlich, Redlich-Peterson, Toth and Khan isotherms were discussed. This study is interesting and helps understanding and choosing the adequate isotherm model for a specific adsorption process.</p> <p>2. The title is suitable.</p> <p>3. The abstract describes the main idea and results of the article.</p> <p>4. Yes, the structure of the manuscript is appropriate.</p> <p>5. I did not find incorrectly performed methods or interpretation of results</p> <p>6. The references are rather fresh and they are organized quite well.</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>The language is good.</p> <p>I would point out some drawbacks of the manuscript to be corrected by the authors.</p> <p>2.2.1 ... one hour at 873K and one and half hours at 873K... Probably it is a typo in the numbers. All methods of instrumental characterization must be described in the Experimental part, including the equipment brands and the conditions of analyses. In the Results part is necessary to mention at least which exact method was used to characterize surface chemistry.</p> <p>4.1.1 Please check if FTIR really characterizes surface chemistry, as far as I know, it does not. Probably, I did not get what the authors meant by "surface chemistry".</p> <p>In tab.4 and 5, it is better to put the names of the isotherms between the lines to emphasize them (as it was done for Langmuir).</p> <p>In fig. 5 there is no a and b in the pictures.</p> <p>FTIR spectra (Fig S1 and S2) must be transformed so that the absorption maxima are actually visible. The technician who recorded the spectra can easily do this. It is necessary to increase the intensity of the maximums in the program in which he works. Now in the picture it is impossible to understand what shape they are, but it matters. The names of the x-axes (wavelength) are missed.</p>	
<p><b>Optional/General</b> comments</p>	<p>NA</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:	Aleksandra Mikhailidi
Department, University & Country	St.-Petersburg State University of Industrial Technologies and Design, Russia