Review Form2

Book Name:	**Chemical and Materials Sciences - Developments and Innovations**
Manuscript Number:	**Ms_BPR_1932**
Title of the Manuscript:	**Artificial Neural Networks Modeling of Dynamic Adsorption From Aqueous Solution**
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 few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.	1. The study lacks a detailed explanation of the dataset and the practical implications of the improved prediction accuracy using the MLP-ANN model over the MLR model. 2. Pls improve the abstract as per the format	
Is the title of the article suitable? **(If not please suggest an alternative title)**	**1. Yes**	
Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.	**Pls refine in to** 1. Objective: 2. Methods 3. Algorithms: 4. Results: **5.** Conclusion:	
Are subsections and structure of the manuscript appropriate?	**Please refine the sub structure**	
Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound?Minimum 3-4 sentences may be required for this part.	This manuscript is scientifically robust and technically sound due to its comprehensive approach in comparing two distinct modeling techniques, MLP-ANN and MLR, for predicting dynamic adsorption in a complex system. The use of a large dataset (1859 data points) ensures the models are trained and tested on diverse scenarios, enhancing the reliability of the results. Additionally, the detailed description of the MLP-ANN architecture and the application of the Levenberg-Marquardt algorithm demonstrate a thorough understanding and implementation of advanced machine learning techniques. The statistical analysis, highlighting the superiority of the MLP-ANN model with clear metrics (R and RMSE), provides strong evidence of its predictive accuracy and efficacy.	
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. **-**	**Pls include the recent more references**	

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Minor REVISION comments **Is language/English quality of the article suitable for scholarly communications?**	Minor	
Optional/Generalcomments	Use Math equations	

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:

Name:	**Sundar Singh Sivam**
Department, University & Country	**SRM Institute of Science and Technology, India**