Review Form 1.7

Journal Name:	**Asian Journal of Applied Chemistry Research**
Manuscript Number:	**Ms_AJACR_99870**
Title of the Manuscript:	**Photocatalytic Decomposition of Methylene Blue over Nanosized Ca^{2+} Doped $LaMnO_3$ under Visible Light Irradiation**
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:

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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)*
Compulsory REVISION comments **1. Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) **2. Is the title of the article suitable?** (If not please suggest an alternative title) **3. Is the abstract of the article comprehensive?** **4. Are subsections and structure of the manuscript appropriate?** **5. Do you think the manuscript is scientifically correct?** **6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	The authors synthesized a novel Ca^{2+} Doped $LaMnO_3$ photocatalyst, and the as-prepared sample showed high photocatalytic activity and cycling stability for pollutant removal. The results are interesting and some reasonable explanation is provided. It is acceptable with revision. However, some modifications are required as follows: 1. The standard XRD card patterns of LCMO should be shown in Fig.2. 2. In the introduction it is suggested to mention examples of adverse health effects caused by MB. 3. Some advanced photocatalysts should be introduced to keep abreast of the latest research trends of photocatalysis technique. e.g.: Appl. Surf. Sci., 2023, 610, 155346; Chem. Eng. J., 2023, 455, 140943, Sep. Purif. Technol., 2023, 304, 122401, J. Colloid Interface Sci., 2023, 629, 276-286, etc. 4. Adsorption-desorption tests are suggested to be performed before the start photoreaction process. The pollutant adsorption percentage on the samples must be provided and their effects on the photocatalysis need to be discussed. 5. To confirm the photocatalytic stability and durability, some basic characterizations of photocatalysts should be provided after reaction, such as XRD. 6. Some significant researches on photocatalytic pollutant removal, e.g., Adv. Powder Mater., 2023, 2, 100073, Chin. J. Catal., 2022, 43, 2652–2664, Adv. Fiber Mater., 2023, doi: 10.1007/s42765-022-00253-5, etc. should be introduced, compared and emphasize this significance of this work. 7. Mineralization capacity of the samples should be studied. TOC removal should be considered. 8. The photocatalytic stability of the sample is suggested to be investigated.	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**		
Optional/General comments		

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)*	

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