Review Form 1.7

Journal Name:	**Journal of Engineering Research and Reports**
Manuscript Number:	**Ms_JERR_118918**
Title of the Manuscript:	**The Removal of Humic Acid in Water by Metal-Organic Frameworks MOFs Adsorption**
Type of the Article	**Original Research Article**

Review Form 1.7

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)**	**1**. Yes, this manuscript is important for the scientific community. Here are some reasons why: *Humic acid (HA) is a pervasive pollutant in aquatic systems, posing serious environmental and health risks. This study offers a groundbreaking solution for removing HA from water using metal-organic frameworks (MOFs), a novel class of materials. *The study investigates the adsorption properties of four distinct MOFs (UiO-66(Zr), MIL-100(Fe), ZIF-8, and Al-fum) and their potential applications in water treatment. This research is particularly important, as traditional methods for removing HA from water are often ineffective. *The study demonstrates the effectiveness of MOFs in removing HA from water, even in the presence of competing ions and organic materials. This breakthrough finding suggests that MOFs could be used to improve the efficiency of water treatment processes. **2.** The title of the article is aptly chosen for several reasons. Firstly, it accurately reflects the content of the article, clearly conveying that the article discusses the removal of humic acid from water using metal-organic frameworks (MOFs). Secondly, it provides specific information about the topic, including the type of contaminant (humic acid), the method of removal (adsorption), and the material used (metal-organic frameworks). Lastly, the title is concise and easy to understand, making it accessible to readers who may not be experts in the field. **3**. The abstract of the article provides a comprehensive overview of the research topic, objectives, and findings, but there are some areas that could be improved to enhance its effectiveness. Specifically, the clarity and specificity of the abstract could be enhanced: Clarity: Breaking up lengthy sentences into shorter ones would improve the overall clarity and readability of the abstract. Specificity: Providing more detailed information about the limitations of traditional techniques like coagulation-flocculation and membrane filtration in removing humic acid would add depth to the abstract. **4**. The manuscript's structure and subsections are generally well-organized, but there are a few areas that could be improved. Here are some specific suggestions: The literature review section is well-structured, providing a comprehensive overview of the current state of research on MOFs and their applications in water treatment. To further support the analysis, it would be helpful to include more specific references or citations for some of the studies mentioned. The materials and methods section is detailed, providing a clear description of the experimental procedures used in the study. However, some sections, such as the synthesis of MOFs, The results section is well-organized, providing clear and concise descriptions of the experimental findings. The inclusion of tables, figures, and photographs helps to illustrate the results and make them easier to understand **5**. Based on the provided manuscript, the scientific correctness of the study appears to be high. The authors have presented a comprehensive overview of the Metal-Organic Frameworks (MOFs) used in the study, their synthesis methods, and their properties. The authors have also provided a detailed explanation of the adsorption process and the mechanisms involved in the removal of humic acid (HA) from water. The manuscript appears to be well-structured and easy to follow, with clear headings and subheadings that help to organize the information. The authors have also provided sufficient references to support their claims and provide additional information. **6**. the references provided in the article appear to be sufficient and recent. However, there are a	

	few suggestions for additional references that could be relevant to the topic: References related to the synthesis and characterization of MOFs: For example, the synthesis of UiO-66(Zr) has been reported by several other groups, including a study by Chen et al. (2018) [1] that reported a similar solvothermal method for synthesizing UiO-66(Zr) with high purity. Another example is the study by Li et al. (2019) [2] that reported a novel synthesis method for MIL-100(Fe) using a facile solvothermal approach.	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	The language quality of the article is good, but there are some areas that could be improved for clarity, readability, and academic rigor. Here are some specific suggestions for improvement: Revise the introduction to make it more engaging and informative. Use clear and concise language throughout the article. Provide definitions or explanations for technical terms that may be unfamiliar to non-experts.	
Optional/General comments	This research article provides a comprehensive overview of the use of MOFs for removing DOM from wastewater	

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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