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| Book Name: | **Innovative Solutions: A Systematic Approach Towards Sustainable Future** |
| Manuscript Number: | **Ms\_BPR\_3724.42** |
| Title of the Manuscript: | **AN ANALYTICAL SOLUTION OF TRANSPORT OF POLLUTANTS IN UNSATURATED POROUS MEDIA WITH ADSORPTION** |
| Type of the Article | **Complete Book chapter** |

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| 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 a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.** | 1. I found the research interesting since it attempts to find a solution to the issue of some contaminants, including heavy metal contamination, contaminating water supplies. 2. The research's use of equations that failed to describe the adsorption process. 3. It made use of challenging and intricate equations. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The suggested alternative title :Mathematical solution for dispersion of pollutants in porous media** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **I suggest the addition of some points in this section:**  **the suggestions here.**  **Adsorption process as technique and it's parameters should be added;**  **characteristics of pore volume and pore size, Adsorption kinetics** |  |
| **Are subsections and structure of the manuscript appropriate?** | **Yes appropriate** |  |
| **Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.** | **This manuscript is scientifically robust and technically sound.**   * 1. **Because the mathematical equations are correct.**   2. **The references to the equations are strong, even though they aren't updated.**   3. The conclusion is convenient, depending to the article |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The references sufficient but not recentThe suggetion references:Tu, Shujie, et al. "Analytical solution of three-dimensional particle transport in porous media considering a dual deposition mode." *Advances in Water Resources* 174 (2023): 104419.‏  1. PASWAN, Akhilesh; SHARMA, Pramod Kumar. Three-dimensional modeling for colloid-facilitated contaminant transport with the effect of mobile and immobile sorbents. *Journal of Contaminant Hydrology*, 2024, 264: 104369.‏ 2. Eeltink, S., De Vos, J., & Desmet, G. (2024). Toward Unrivaled Chromatographic Resolving Power in Proteomics: Design and Development of Comprehensive Spatial Three-Dimensional Liquid-Phase Separation Technology. Annual Review of Analytical Chemistry, 17.‏ |  |
| Minor REVISION commentsIs the language/English quality of the article suitable for scholarly communications? | The language of the article suitable for scholarly communications |  |
| Optional/General comments |  |  |

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| **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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| Reviewer Details: | |
| Name: | **Fatima Al-Qadri** |
| Department, University & Country | **Najran University, Saudi Arabia.** |