

Review Form 1.6

Journal Name:	Asian Journal of Chemical Sciences
Manuscript Number:	Ms_AJOCS_87434
Title of the Manuscript:	Adsorbents used for Arsenic adsorption from aqueous: A review
Type of the Article	Review 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://www.journalajocs.com/index.php/AJOCS/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)
Compulsory REVISION comments	<p>The author has worked out very significant review study on As, it will indeed increase the attention of the public to handle this hazardous metal. I am extremely busy, but the editor requested with a not that the author urgently need to be graduated. That is why I agree to review this article quickly. I have some suggestions for the author to improve the quality of the article.</p> <p>1) Please check the English language of the whole manuscript. Please follow the general rule i) abstract in present and future tense ii) Introduction in present tense carrying application of As, review literature in past and some recommendation in future iii) conclusion in past tense.</p> <p>2) the title of the article has a problem, if it is like this "Adsorbents used for the adsorptive removal of highly hazardous Arsenic from aqueous solution: A review" then will attract more readers.</p> <p>3) If possible, please show the hazardous application and removal of As through some beautiful figures.</p> <p>4) discuss the hazardous application of other heavy metals and compare those with As.</p> <p>5). The subscripts and super scripts of many chemical formulae need to be corrected, for example H₂AsO₄ and HAsO₂.</p> <p>6) what about the photocatalytic removal of As? If literature is available, please mention that.</p> <p>7) Please cite the following papers related to removal of hazardous pollutants and heavy metals.</p> <p>a) R. Nazir, M. Khan, R. U. Rehman, S. Shujah, M. Khan, M. Ullah, A. Zada, N. Mahmood, I. Ahmad, Adsorption of selected azo dyes from an aqueous solution by activated carbon derived from <i>Monotheca buxifolia</i> waste seeds, <i>Soil Water Res.</i> 15 (2020) 166-172.</p> <p>b) M. Ullah, R. Nazir, M. Khan, W. Khan, M. Shah, S. G. Afridi, A. Zada, the effective removal of heavy metals from water by activated carbon adsorbents of <i>Albizia lebbeck</i> and <i>Melia azedarach</i> seed shells, <i>Soil Water Res.</i> 15 (2020) 30-37.</p> <p>c) H. Yasmeen, A. Zada, S. Ali, I. Khan, W. Ali, W. Khan, M. Khan, N. Anwar, A. Ali, A. M. H. Flores, F. Subhan, Visible light excited surface plasmon resonance charge transfer significantly improves the photocatalytic activities of ZnO semiconductor for pollutants degradation, <i>J. Chin. Chem. Soc.</i> 67 (2020) 1611-1617.</p> <p>d) A. Zada, N. Ali, M. Ateeq, A. M. H. Flores, Z. Hussain, S. Shaheen, M. Ullah, S. Ali, I. Khan, W. Ali, M. I. A. Shah, W. Khan, Surface plasmon resonance excited electron induction greatly extends H₂ evolution and pollutant degradation activity of g-C₃N₄ under visible light irradiation, <i>J. Chin. Chem. Soc.</i> 67 (2020) 983-989.</p> <p>e) N. Cui, A. Zada, J. Song, Y. Yang, M. Liu, Y. Wang, Y. Wu, K. Qi, R. Selvaraj, S. Liu, G. Jin, Plasmon-induced ZnO-Ag/AgCl photocatalyst for degradation of tetracycline hydrochloride, <i>Desalination Water Treat.</i> 245 (2022) 247-254.</p> <p>f) A. Zada, M. Khan, Z. Hussain, M. I. A. Shah, M. Ateeq, M. Ullah, N. Ali, S. Shaheen, H. Yasmeen, S. N. A. Shah, A. Dang, Extended visible light driven photocatalytic hydrogen generation by electron induction from g-C₃N₄ nanosheets to ZnO through the proper heterojunction, <i>Z. Phys. Chem.</i> 236 (2022) 53-66.</p> <p>g) Z. Zhang, A. Zada, N. Cui, N. Liu, M. Liu, Y. Yang, D. Jiang, J. Jiang, S. Liu, Synthesis of Ag loaded ZnO/BiOCl with high photocatalytic performance for the removal of antibiotic pollutants, <i>Crystals</i> 11 (2021) 981.</p> <p>h) K. Saeed, I. Khan, M. Ahad, T. Shah, M. Sadiq, A. Zada, N. Zada, Preparation of ZnO/Nylon 6/6 nanocomposites, their characterization and application in dye decolorization, <i>Appl. Water Sci.</i> 11:105 (2021), doi.org/10.1007/s13201-021-01442-0</p> <p>I studied the manuscript entitled " Adsorbents used for Arsenic adsorption from aqueous: A review" I recommend publication of the work after moderate revision regarding the following comments.</p> <ol style="list-style-type: none"> 1. Abstract should be short, avoid unnecessary sentence and add more finding of the work. 2. Please regard English styles, comma, dot, space between the words especially in the refs list, and capital letters rules. 3. Please begin key words with capitals. 4. Please check and correct all index, unites, formula, etc, for example 'H₃PO₄' is not correct, H₃PO₄ is correct. 5. Conclusion section should be re-written, it should involve by most important conclusion obtained. 	
Minor REVISION comments	I recommend a minor revision for this article.	
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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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