



SDI Review Form 1.6

Journal Name:	Chemical Science International Journal
Manuscript Number:	Ms_CSIJ_54285
Title of the Manuscript:	Removal of Arsenic(III) from Aqueous Solution Using Nano Zerovalent Iron Supported On Sawdust (NZVI/SD)
Type of the 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
<p>Compulsory REVISION comments</p>	<p>General comments: There are too many errors and inconsistency in this manuscript. At current state, I cannot recommend this manuscript for publication in this journal unless authors sufficiently clarify the issues and correct the errors that were raised.</p> <p>SPECIFIC comments: Title: There should be no abbreviation on the title.</p> <p>Abstract: quoting sentence "The NZVI/SD was characterized by SEM, XRD, FTIR and Chemical method." What is chemical method? Abstract need to be more concise. Authors can directly mentioned that kinetics data well fitted into pseudo 2nd order, and delete the part mentioning kinetics data was tested with pseudo 1st and 2nd order.</p> <p>INTRODUCTION Authors did not seem to understand the general rules of using abbreviation. Please find below the general direction of using abbreviation and correct for the whole manuscript. Rules and using abbreviation. Abbreviations that are defined in the abstract will need to be defined again at first use in the main text. Terms that are already defined should not be redefined again otherwise it is a duplication of effort. And once you defined a term, avoid switching back to the full term, otherwise it is pointless to define them in the first place. Terms that are used only once in the manuscript do not need to be abbreviated. Delete abbreviation for WHO and US-EPA.</p> <p>"NZVI/ sawdust", NZVI/SD. ???<-- make sure you consistently use one term.</p> <p>What are TCE, PCE?</p> <p>Why are there so many citations used to verify one or two things?</p> <p>Methodology section Section 2.1 please check the term "Mirpur-1" Error on the chemical name "Ferrous sulphate heptaydrate" Scientific name of the biological species need to be italicised. "<i>Shorea robusta</i>" Chemical analysis of the sawdust were done using standard methods [30] What are these chemical methods? Authors must describe the experimental procedure briefly, and list out the reagents and manufacturer grade.</p> <p>Section 2.2 "Sawdust supported nanoscale zero valent iron (NZVI) have been synthesized following a literature protocol [31]." How? Please don't expect reader to find the method from the source. All experimental procedure must be briefly describe in this manuscript. Also please make sure you describe how it is verified to be in nano size.</p>	



	<p>What is "(3*20 ml),"</p> <p>Consistently use "As(III)" and avoid switching back to "arsenic(III)"</p> <p>SECTION 3 Please superscript the unit "cm⁻¹" properly</p> <p>Authors should also cite the isotherm models to their original article and not Ref39. Langmuir, I. (1916). The constitution and fundamental properties of solids and liquids. <i>Journal of the American Chemical Society</i>. 38, 2221-2295 Freundlich, H. M. F. (1906). Over the adsorption in solution. <i>Journal of Physical Chemistry</i>. 57, 385-471</p> <p>What data did authors use to fit into the Langmuir and Freundlich isotherm? I only see 4 data points.</p> <p>ERROR "K_F is frundlich constant" and provide the unit for KF. If you don't know the unit, then see open source paper on the link provided. https://www.sciencedirect.com/science/article/pii/S110016815001088</p> <p>In the text, authors used "correlation coefficient r²" as the symbol. While in Table 1 why R² was used?</p> <p>Section 3.4 error "linearalized"</p> <p>Please cite the pseudo first order and pseudo 2nd order to the original work. Pseudo first order S. Lagergren. About the theory of so called adsorption of soluble substances, <i>Kungliga Svenska Vetenskapsakademiens Handlingar</i>, 24, (1898) 1-39. Pseudo second order Y.S. Ho, G. McKay. Sorption of dye from aqueous solution by peat, <i>Chem. Eng. J.</i>, 70, (1998) 115-124.</p> <p>Symbol not subscripted properly. qe Units not superscripted properly. min⁻¹ , g mg⁻¹min⁻¹.</p> <p>Figure 7 caption error "NZVI supported on sawdus"</p> <p>Reference Recheck list of reference. Ref 31 is not align properly, and there are two ref 39 And recheck reference numbering Ref 41-42</p>	
<p>Minor REVISION comments</p>		
<p>Optional/General comments</p>		



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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>	

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