



SDI Review Form 1.6

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| Journal Name: | Chemical Science International Journal |
| Manuscript Number: | Ms_CSIJ_39673 |
| Title of the Manuscript: | Equilibrium Adsorption Studies of Methylene Blue onto Caesalpinia pulcherrima husk-based Activated Carbon |
| 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) |
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| Compulsory REVISION comments | <p>The work is interesting but I have the following suggestions.</p> <ol style="list-style-type: none"> 1. English should be improved throughout the manuscript. 2. Quantitative information should be provided in the abstract. 3. The conclusion should be concise and to the points indicating the application of the work. 4. Refs are not updated and the following refs. should be added: <p>A: With ref 1</p> <p>Instrumental methods in metal ions speciation: Chromatography, Capillary Electrophoresis and Electrochemistry, Taylor & Francis Ltd., New York, USA (2006), ISBN: 0-8493-3736-4.</p> <p>Nano Chromatography and Capillary Electrophoresis: Pharmaceutical and Environmental Analyses, Wiley & Sons, Hoboken, USA (2009), ISBN: 978-0-470-17851-5.</p> <p>Environmental water: Advances in treatment, remediation and recycling, Elsevier, The Netherlands, (2012).</p> <p>B: with refs 3</p> <ul style="list-style-type: none"> - Artificial neural network modelling of amido black dye sorption on iron composite nano material: Kinetics and thermodynamics studies, J. Mol. Liq., 250: 1-8 (2018). - Uptake of propranolol on ionic liquid iron nanocomposite adsorbent: Kinetic, thermodynamics and mechanism of adsorption, J. Mol. Liq, 236: 205-203 (2017). - Molecular uptake of congo red dye from water on iron composite nano particles, J. Mol. Liq., 224: 171-176 (2016). - Green synthesis of functionalized iron nano particles and molecular liquid phase adsorption of ametryn from water, J. Mol. Liq., 221: 1168-1174 (2016). - Synthesis of composite iron nano adsorbent and removal of ibuprofen drug residue from water, J. Mol. Liq., 219: 858-864 (2016). - Removal of arsenate from aqueous solution by electro-coagulation | Noted |



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| | <p>method using Al-Fe electrodes, Int J Electrochem Sci 7, 1898-1907 (2012).</p> <ul style="list-style-type: none"> - -Advances in arsenic speciation techniques, International Journal of Environmental Analytical Chemistry 84 (12), 947-964 (2004). <p>-Removal of chromium(VI) from aqueous solution using treated waste newspaper as a low-cost adsorbent: Kinetic modeling and isotherm studies, Journal of Molecular Liquids 215, 671-679 (2016).</p> <p>C: With refs 6</p> <ul style="list-style-type: none"> - Adsorption of Rhodamine B dye from aqueous solution onto acid activated mango (Magnifera indica) leaf powder: equilibrium, kinetic and thermodynamic studies, Journal of Toxicology and Environmental Health Sciences 3 (10), 286-297 (2011). - Supra molecular mechanism of the removal of 17-β-estradiol endocrine disturbing pollutant from water on functionalized iron nano particles, J. Mol. Liq., 441: 123-129 (2017). <p>-Removal of arsenate from groundwater by electrocoagulation method, Environmental Science and Pollution Research 19 (5), 1668-1676 (2012).</p> <p>-Removal of arsenic species from water by batch and column operations on bagasse fly ash, Environmental Science and Pollution Research 21 (5), 3218-3229 (2014).</p> <p>D: With refs 7</p> <ul style="list-style-type: none"> -Sorption, kinetics and thermodynamics studies of atrazine herbicide removal from water using iron nano-composite material, International Journal of Environmental Science & Technology 13, 733-742 (2016). -Removal of secbumeton herbicide from water on composite nanoadsorbent, Desalination and Water Treatment 57 (22), 10409-10421 (2016). -Green synthesis of iron nano-impregnated adsorbent for fast removal of fluoride from water, Journal of Molecular Liquids 211, 457-465 (2015). - Uptake of pantoprazole drug residue from water using novel synthesized composite iron nano adsorbent, J. Mol. Liq., 218: 465-472 (2016). <p>I WOULD LIKE TO SEE THE REVISED MANUSCRIPT.</p> | |
| Minor REVISION comments | As above | |
| Optional/General comments | As above | |