

## Comments on "Chemistry of Pyrolysis and Kinetic Studies of Shea Nut (*Vitellaria Paradoxa*) Shells Activated Carbon for Textile Wastewater Treatment"

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Recently, *Itodo et al.* published the paper entitled "chemistry of pyrolysis and kinetic studies of shea nut (*Vitellaria paradoxa*) shells activated carbon for textile wastewater treatment" [1]. In section "Batch kinetic study", the authors noticed "the pseudo first order equation given by Lagergren and Svenska was described as Eq. (5a)" and cited a secondary material as reference which is a citation error with a wrong page number and name of journal. In fact, *Lagergren* is the only one author of the original pseudo first order paper [2]. A citation review of the Lagergren rate equation for adsorption reactions has been presented [3]. The correct reference citing the original Lagergren paper was first presented by *Ho & McKay* in 1998 [4]. In order to distinguish a kinetic model based on the adsorption capacity of a solid from one based on the concentration of a solution, Lagergren's first-order rate equation has been called pseudo-first order [5].

Similarly, *Itodo et al.* also noticed "Generated data were also tested using the pseudo second order kinetic model expressed as Eq. (6a & b)" in the same section and cited as secondary material as reference which is a citation error with wrong name of journal and is also a quotation error because Eq. (6a & b) could not be found in the reference. Equations 6a and 6b have been presented in 1998 [6]. In addition, the initial adsorption rate,  $h$ , with Eq. 6b, was firstly reported in 1998 [4-6]. Recently, similar comments have also been published in *Industrial & Engineering Chemistry Research* [7], *Journal of Hazardous Materials* [8], *Journal of Radioanalytical*

*and Nuclear Chemistry* [9] and *Adsorption Science & Technology* [10].

Accuracy of quotation and citations are very important for the transmission of scientific knowledge [10]. It is recommended to cite directly from the original article but vast majority of the authors used so called second-handed references due to the difficulty of maintaining the original information [3]. To avoid being misconstrued, as well as to provide more accurate information, my suggestion is that *Itodo et al.* could cite the original papers and follow the original way of expressing the related equations and the references.

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