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Letter to Editor

Comment on “Biosorption of Cr(VI) from aqueous solutions onto *Hydrilla verticillata* weed: equilibrium, kinetics and thermodynamic studies”

This manuscript pointed out an error on pseudo-second-order rate equation. The mistake in the model was duplicated in number of papers in recent years. This type of error could be avoided if authors have had paid more attentions to details about the model from the original paper. In addition, it may lead to trouble for the reader to locate the original articles. It is very provoking and time-consuming to search for a reference when the information is not correct. This comment offered information for citing original idea of the pseudo-second order kinetic expression.

Please consider for its publication. If there are problems, please do not hesitate to contact me. With best regards,

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Recently, Pilli et al. (2010) published the paper entitled as above. In the section 3.3.2 Pseudo second-order kinetic model, Pilli et al. (2010) noticed that “A pseudo second-order reaction model can also be applicable to the kinetics of biosorption according to Eq. (4). The pseudo-second-order kinetic expression for the adsorption systems of divalent metal ions using sphagnum moss peat has been presented by Ho in 1995, and this expression was also firstly published in *Environmental Technology* in 1996 (Ho et al., 1996). Unfortunately, a correction to the kinetic model was rejected to be published by *Environmental Technology*. In 1997, a corrected pseudo-second order kinetic expression was reported because a mistake was included in the previous publications (Ho and McKay, 1997). The model was also used in numbers of adsorption systems in subsequent years (Ho, 2005).

A review of second-order models for adsorption systems gave more details (Ho, 2006). However, the same mistake was duplicated by Mohanty in *Chemical Engineering Journal* (Goud et

al., 2005; Mohanty et al., 2005a; Mohanty et al., 2006; Srividya and Mohanty, 2009; Venugopal and Mohanty, 2011) and *Engineering Chemistry Research* (Mohanty et al., 2005b).

In order to stop the proliferation of the mistake a comment has been made (Ho, 2004). This type of error could be avoided if authors have had paid more attentions to details about the model from the original paper (Benguella and Benaissa, 2004). A typical example could be found in *Water Research*. A comment has been made to point out this error in the paper “Comment on ‘cadmium removal from aqueous solutions by chitin: Kinetic and equilibrium studies’” (Ho, 2004). Benguella and Benaissa (2004) also responded that “we agree with the comment of Dr. Y.S. Ho on our manuscript published in *Water Research*.” In my view, Pilli et al. (2010) should have cited the original paper for the kinetic models and thereby provided greater accuracy and information details about the kinetic expression they employed.

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