

Comments on “Preparation and application of 4-amino-4'-nitro azobenzene modified chitosan as a selective adsorbent for the determination of Au(III) and Pd(II)”

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Recently, Wang et al. published the paper entitled “preparation and application of 4-amino-4'-nitro azobenzene modified chitosan as a selective adsorbent for the determination of Au(III) and Pd(II)” [1].

In section “Adsorption kinetics”, the authors presented the term “original rate” as “ h stands for original rate of reaction which can be defined as $h = k_2 q_e^2$.” without any citations. In fact, the definition of initial adsorption rate (original rate) for the adsorption systems of divalent metal ions using sphagnum moss peat has been presented by Ho [2], and this expression has also been published in 1996 [3]. A modified initial adsorption rate has been presented in 1998 to correct a mistake that was included in the previous paper published in 1996 [4–6]. These papers should be cited. Another quotation error is that the authors cited Atia [7] and Merrifield et al. [8] regarding the pseudo-second-order kinetic equation while nothing about “the pseudo-second-order kinetic equation” was mentioned in these two references. Two most suggested papers for the pseudo-second-order kinetic equation were published in 1984 and 1995 by Blanchard et al. [9] and Ho [2, 6], respectively. Blanchard et al. noted the overall exchange reaction of NH_4^+ ions fixed in zeolite by divalent metallic ions in the solution using a second-order kinetic model [9]. Ho used the pseudo-second-order kinetic model to the copper

ion/peat adsorption system. The adsorption involved not only cation exchange but also chemical bonding [2].

When a scientific publication duplicate previously published idea, text, equations, or figures without any citations, it frequently is regarded as a sign of possible plagiarism [10]. To avoid being misconstrued, as well as to provide more accurate information, I would suggest that the authors cite the original paper for the initial adsorption rate.

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