Comments on “Collagen-Fiber-Immobilized Tannins and Their Adsorption of Au(III)”

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Sir: Recently, Liao et al. published the paper entitled as above. In section 3.5, Adsorption Kinetics of Au(III) on Immobilized Tannins, a pseudo-second-order rate model (eqs 4 and 5) was used to describe sorption of Au(III) by collagen-fiber-immobilized tannins. In fact, the second-order kinetic expression for the adsorption systems of divalent metal ions using sphagnum moss peat has been reported by Ho. To distinguish the kinetic equation based on the adsorption capacity of a solid from the concentration of the solution, Ho’s second-order rate expression has been named pseudo-second-order. The earlier application of the pseudo-second-order equation to the kinetic studies of competitive heavy-metal adsorption by sphagnum moss peat was undertaken by Ho et al. In addition, a modified pseudo-second-order kinetic expression was reported in 1997 and has also been presented in the following years. The pseudo-second-order rate expression of Ho has been widely applied to the sorption of metal ions, dyes, herbicides, and oil and organic substances from aqueous solutions.

I suggest that Liao et al. cite Ho’s original pseudo-second-order kinetic expression paper or relevant works.

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Literature Cited