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Equilibrium Isotherm, Kinetic Modeling, Optimization, and ...

Kinetic models with relatively high R^2 and low SE values were considered as the best-fitted models. Adsorption isotherms To investigate the influence of different SR on P adsorption, 0.12, 0.2, and 0.3 g of zeolite

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equilibrated with 30 mL solution containing 30, 45, 60, 75, or 90 mg P L ⁻¹ as potassium dihydrogen phosphate in 0.01 M CaCl₂ on an end over end shaker for 40 hours.

Investigation of Taguchi optimization, equilibrium ...

Abstract. A series of experimental studies has been carried out using a novel, sustainable adsorbent to remove Tartrazine dye, namely, a steam activated carbon obtained from pecan nut shells. The dye also known as acid yellow 23 has been used in the food industry but is now classified as a

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carcinogen. The experimental equilibrium data has been used to test four equilibrium isotherm models and then the best fitting model was optimised to minimise the mass of adsorbent used to save costs in ...

Equilibrium, Kinetic and Optimization Studies for the ...

equilibrium and kinetic models had to be compared. Adsorption kinetic models are usually divided into two subgroups. The first ones are the non-structural models which may agree quite well with the experimental data; nonetheless, these do not include parameters

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describing adsorbent structure and are thus more or less of an interpolative nature.

COMPARISON OF ADSORPTION EQUILIBRIUM AND KINETIC MODELS ...

They concluded that the kinetic model has more accurate results than equilibrium model. Finally, Jones et al. identified a set of linearly independent reactions and developed a kinetic models for the furnace flame and anoxic zones, WHB, and catalytic reactors. They used a set of plant data for optimal estimation of the kinetic parameters.

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Thermo-kinetic modeling and optimization of the sulfur ...

The reactor model was simulated based on a discrete lumped model approach to kinetic modeling. The kinetic and product distribution parameters were fine-tuned using available industrial data. The real-coded elitist nondominated sorting genetic algorithm was used to carry out the multi-objective optimization study.

Modeling, Simulation, and Multi-objective Optimization of ...

Stationary modeling considers the system

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working at an equilibrium point, where metabolite concentrations are constant over time. On the other hand, dynamic modeling acknowledges the changes metabolite concentrations suffer over time. Both approaches for phenotype prediction will be discussed and compared in this section.

Frontiers | A Review of Dynamic Modeling Approaches and ...

In addition, the SEM micrographs of before binding copper ions (a 1, b 1, c 1) revealed that rough, porous and various thick surfaces which might upgrade the efficiency of removal

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Cu (II) from aqueous water. Download :
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Biosorption of copper ions from aqueous solution using ...

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Stationary modeling considers the system working at an equilibrium point, where metabolite concentrations are constant over time. On the other hand, dynamic modeling acknowledges the changes metabolite

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concentrations suffer over time. Both approaches for phenotype prediction will be discussed and compared in this section.

A Review of Dynamic Modeling Approaches and Their ...

Equilibrium time was achieved in 60 s for both ions. The isotherm data showed the adsorption of Cu(II) and Pb(II) ions are in agreement with Langmuir model. Kinetics results exhibited the adsorption of ions fitted well with the pseudo-second order kinetic model.

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Rapid Adsorption of Copper(II) and Lead(II) by Rice Straw ...

Simultaneous optimization of R and q and simple optimization of q was more favorable than that of R from an environmental and economical view. A kinetics study was performed by examining pseudofirst-order, second-order, and intraparticle diffusion kinetic models, and the best fit was obtained for the pseudosecond-order kinetics model with $q_e = (0.624 \text{ and } 2.657) \text{ mg}\cdot\text{g}^{-1}$ for (10 and 50) $\text{mg}\cdot\text{L}^{-1}$ Cr(VI), respectively.

Adsorption of Cr(VI) onto Elaeagnus Tree

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Leaves ...

This research deals with the chemical modification of activated carbon surface with the iron functional groups to enhance the adsorption ability. The modification process was optimized and the effects of three factors (temperature, reaction time, and iron concentration) on the removal abilities of iron impregnated activated carbon (I-AC) adsorbents were investigated.

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