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**Kinetic, equilibrium and thermodynamic phenomenological modeling  
of reactive dye adsorption onto polymeric adsorbent**

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**Abstract:**

This work focused in the assessment of the potential of reactive blue dye 5G (RB5G) adsorption by polymeric adsorbent Dowex Optipore SD-2 (DOSD-2) in closed batch system by a phenomenological investigation of the adsorption process by both experimental data and mathematical modeling of kinetics, equilibrium and thermodynamics. The kinetic model of adsorption on the adsorbent sites described experimental data, consequently the adsorption itself is the rate-limiting step of the

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