

Synthesis of Core-Shell Fe₃O₄/C₁₈/SiO₂/[3 (2-Aminoethyl amino) propyl] Trimethoxy Silane and The Study of The Adsorption Kinetics Model of Cu²⁺ and Cr⁶⁺ Ions

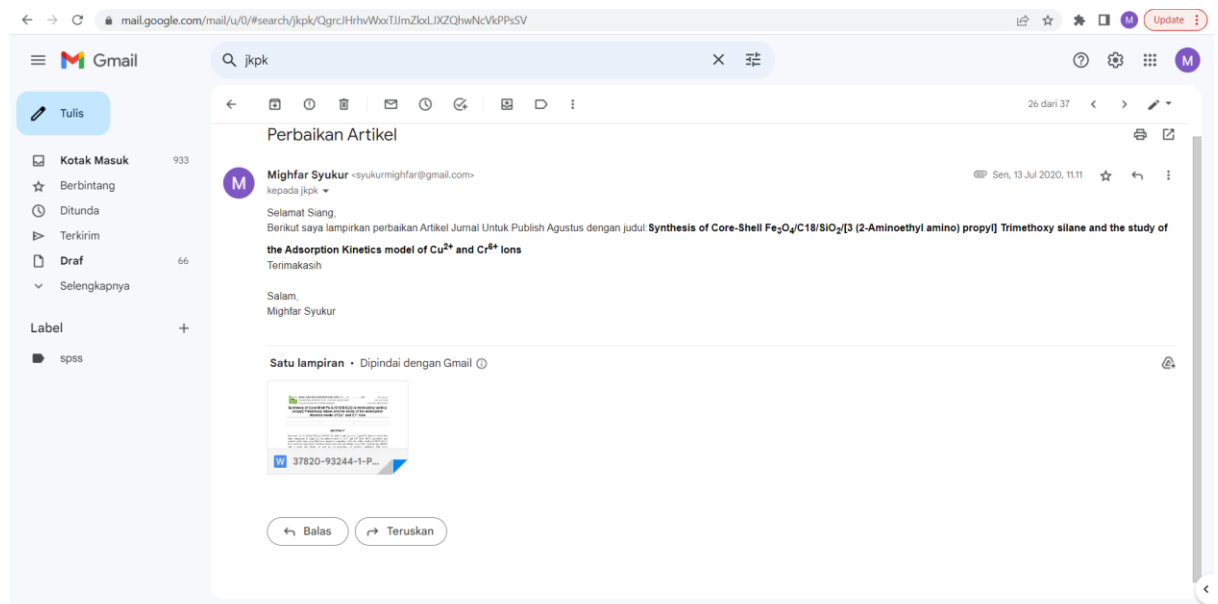
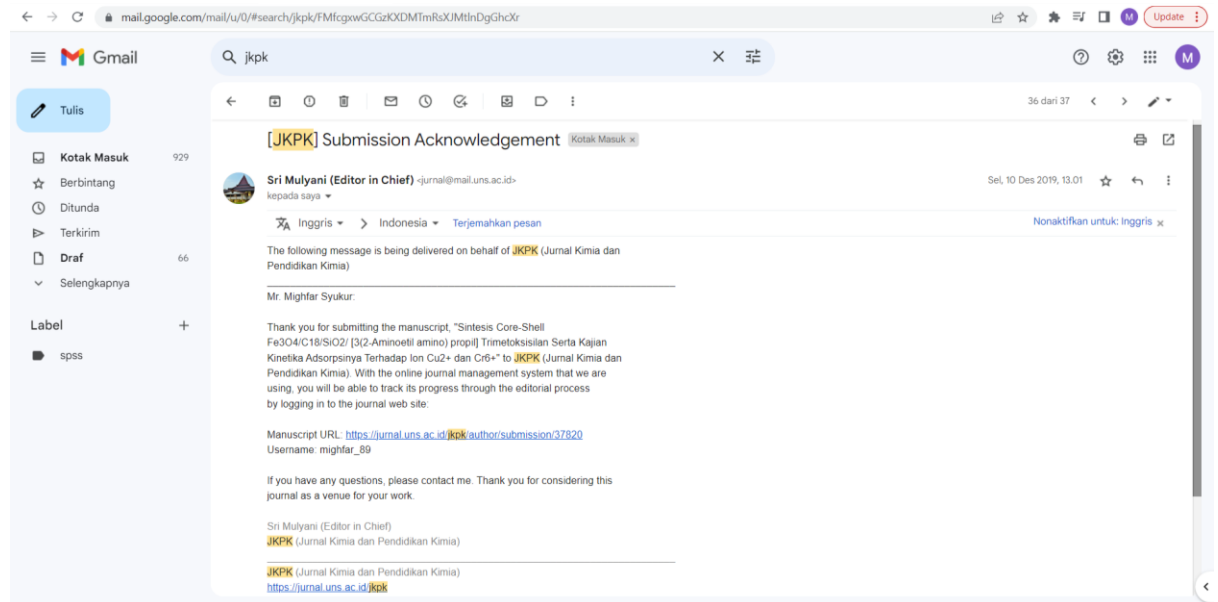
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Abstract

Synthesis of Core-Shell Fe₃O₄/C18/SiO₂/[3 (2-Aminoethyl amino) propyl] Trimethoxy silane has been conducted to study its adsorption kinetics of Cu²⁺ and Cr⁶⁺ ions. Fe₃O₄ synthesis was carried out to form cores that have magnetic properties. The aim of the coating C18/SiO₂/[3(2-Aminoethylamino) propyl] trimethoxy silane was to protect these cores from physical degradation due to acids and bases, as well as the application of synthetic materials. The sono-coprecipitation method showed good results under N₂ gas flow with the results of black crystals. The success of SiO₂ and [3(2-Aminoethylamino) propyl] coatings the transformation of the color showed Trimethoxy silane into brown and weight gain of the synthesis result.

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