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# Clay-Modified Electrodes: A Review

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**Abstract:** Clay-modified electrode research indicates that adsorbed complexes are electroactive if the adsorption sites are clay edges. Interlayer adsorbed complexes may be electroactive if a charge shuttle is added or if interlayer swelling is large. Conductivity of the film towards anionic species depends upon the swelling of the clay, which depends on the electrolyte concentration and speciation. The diffusion coefficients measured by electrochemical experiments agree well with alternative measurements.

**Key Words:** Adsorption • Clay-modified electrode • Conductivity • Diffusion • Electrochemistry

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