Temperature effects on the diffusion of lithium in MoS2

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The diffusion coefficients of lithium in LixMoS2 ($0 < x < 0.43$) compounds were determined at different temperatures by the galvanostatic-pulse relaxation technique. In the temperature range studied, the diffusion rate increases with increasing temperature but it decreases while lithium intercalation degree increases. The enthalpy contribution to the activation energy was evaluated. © 1995.