Mixed conductivity and lithium diffusion in poly(ethylene oxide) molybdenum disulfide nanocomposites

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The electrical conductivity, the lithium diffusion, and the diffusion activation thermodynamics of the nanocomposites arising from the co-intercalation of lithium and poly(ethylene oxide) in molybdenum disulfide, Li0.1MoS2(PEO)0.5 and Li0.1MoS2(PEO)1.0, are analyzed and compared with those of pure MoS2. According to qualitative galvanostatic relaxation experiments, the products are mixed ionic and electronic conductors with a ratio ?e/?i of about 103. © 1998 Published by Elsevier Science Ltd. All rights reserved.