



Chemical Physics of Intercalation (Nato Science Series B:)

A.P. Legrand, A. Flandrois

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Conjugated polymers such as polyacetylene $(CH)_x$ polyphenylene $(C_6H_4)_x$ polythiophene $(C_4H_2S)_x$ etc., which are insulators in their pristine state, can be brought to the metallic state after "doping" with chemical species which can be either electron donors or acceptors. This doping process involves a charge transfer between the dopant molecule and the polymer chain which are then supposed to be spatially close to each other. It follows that the mechanism of doping must be considered as an actual intercalation process, which will greatly affect the structural characteristics of the starting material, as well as its morphology, as has been observed during the intercalation of graphite and layered compounds. In parallel with these modifications, the band structure of the system changes yielding a new set of electronic properties. It is evident therefore that the structural and electronic properties are intimately related, and must be studied simultaneously in the same system to give reliable information. A great number of studies have been devoted to the structural and electronic properties of conjugated polymers after a chemical or electrochemical doping process. Most of these concern the properties of the system for a given dopant concentration. With this approach a universal picture of the polymer/dopant system is very difficult to obtain, as a comparison between different experiments is very hazardous. On the other hand, only a small number of measurements have been performed during the continuous electrochemical doping of various polymers.

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