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Diploma thesis abstract.

Raman spectroscopy of solutions

of charge-transfer complexes

on the basis of semiconducting polymers.

In the present work was investigated a charge-transfer complex in a solution of a mix of semiconducting polymer MEH-PPV with a high-molecular organic acceptor TNF by the method of Raman spectroscopy. Dependences of shifts of the basic line of a Raman spectrum of MEH-PPV on frequency of 1582 sm-1, position and intensity of a line of 966 sm-1 from concentration of TNF, and also dependence of position of a line on 1582 sm-1 from temperature were investigated. The received dependences, along with received earlier absorption dependences in a complex, allow to explain features of formation charge-transfer complex on the basis of the semiconducting polymers in solutions.