

POLYSTYRENE-DOPED PEROVSKITE FOR PHOTOVOLTAIC APPLICATIONS

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Abstract

Perovskite is a variety of materials with specific structure, with different properties depending on compound. Generally, perovskite has a formula ABX_3 , where A and B are different cations and X is an anion. One of the common materials for photovoltaic cells is $(CH_3NH_3)PbI_3$, or $MAPbI_3$. By doping this material with other substances, their specific properties can be significantly improved. To analyse the processes occurring in samples, electrochemical impedance spectroscopy has been used. Physical phenomena are put into line with electrical circuit, that later could be analysed. By changing the parameters of the experiment, one can derive the change of the circuit elements parameters and interpret it as a change of corresponding phenomena.

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