

BEHAVIOR OF LIGHT AND TEMPERATURE INDUCED HYSTERESIS OF SPIN-CROSSOVER SYSTEM UNDER EXTERNAL THERMAL NOISE

Contact Phone

Abstract

The behavior of light- and temperature induced hysteresis in spin crossover compounds with additional control parameter, which is temperature and light intensity respectively, was studied. The impact of thermal background noise coming from environment on hysteresis width was analyzed. It was shown that noise action narrows the width of hysteresis up to its collapse, which take place at the same noise value indifferent on the control parameter of the system. It speaks about universal character of noise action on system properties.

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Primary authors: GUDYMA, Iurii (Yuriy Fedkovych Chernivtsi National University); KRYVOKHYZHA, Halyna; MAKSYMОВ, Artur

Presenter: KRYVOKHYZHA, Halyna

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