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Optically detected magnetic resonance investigations of diluted magnetic semiconductors

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Keywords

magnetic resonance, diluted magnetic semiconductors, spin flip interactions, spin dynamics

Abstract

Mechanisms responsible for optical detection of Mn^{2+} magnetic resonance in II-Mn-VI compounds are discussed. We describe several of these mechanisms. The most efficient one which is due to very efficient spin-flip interactions of localized magnetic moments of Mn^{2+} ions with free carriers is important at increased excitation density.



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