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Nanoscale Phase Separation And Colossal

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Nanoscale Phase Separation and Colossal Magnetoresistance ...

The discovery of electronic phase separation in manganite models described in the previous section, and the resulting nanoscale coexisting clustered-state upon the introduction of 1/r Coulomb effects, provides a first approximation toward the understanding of the physics of manganites . This possible explanation is robust on theoretical grounds and compatible with experimental data.

Nanoscale phase separation in colossal magnetoresistance ...

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): A recent vast experimental and theoretical effort in manganites has shown that the colossal magnetoresistance effect

can be understood based on the competition of charge-ordered and ferromagnetic phases. The general aspects of the theoretical description appear to be valid for any compound with intrinsic phase ...

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Phase separation at the nanoscale quantified by dcFCCS Sijia Penga,1, Weiping Lia,1, Yirong Yaoa,1, Wenjing Xinga , Pilong Lia,2, and Chunlai Chena,2 aSchool of Life Sciences, Tsinghua-Peking Joint Center for Life Sciences, Beijing Advanced Innovation Center for Structural Biology, Beijing Frontier Research Center for Biological Structure, Tsinghua University, 100084 Beijing, China

Phase separation at the nanoscale quantified by dcFCCS

This book addresses nanoscale phase separation, focusing on the manganese oxides with colossal magnetoresistance (CMR). The text argues that nanostructures are at the heart of the CMR phenomenon. Other compounds are also addressed, such as high-temperature superconductors, where similar nanostructures exist.

Nanoscale Phase Separation and Colossal Magnetoresistance ...

Colossal magnetoresistance (CMR) that occurs at intermediate temperatures in doped manganites has been widely believed to arise from inhomogeneous phases. However, convincing evidence is missing to link the structural inhomogeneity, especially at nanoscale, to the CMR effect without direct observation.

Direct Imaging of Nanoscale Phase Separation in La 1-x Ca ...

These structures appear to originate in the competition of phases. The book addresses nanoscale phase

separation, focusing on the manganese oxides known as manganites that have the colossal magnetoresistance (CMR) effect of potential relevance for device applications. It is argued that the nanostructures are at the heart of the CMR phenomenon.

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potential relevance for device applications.

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