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covering condensed matter and materials physics

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Category

- ALL
- Rapid Communication (17,842)

Editors' Suggestion

Local atomic and magnetic structure of dilute magnetic semiconductor (Ba, K) (Zn, Mn)₂As₂

Benjamin A. Frandsen, Zizhou Gong, Maxwell W. Terban, Sohäm Banerjee, Bijuah Chen, Changqing Jin, Mikhail Fayngenson, Yasutomo J. Uemura, and Simon J. L. Billinge
Phys. Rev. B **94**, 094102 (2016) – Published 6 September 2016

Spintronics holds the promise of novel functionality and higher device performance, but a massive challenge is to find semiconducting materials with good electronic properties that are also ferromagnetic. Dilute magnetic semiconductors (DMS) such as Mn-doped GaAs have great potential but are notoriously difficult to make, only stabilizing in thin films in most cases. Recently, a promising new class of DMS materials based on the chemistry and structure of iron-based superconductors has been discovered, including the compound

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The image shows a screenshot of a journal article page from Physical Review B. The page features a dark red header with the journal title and navigation links. The article title is "Local atomic and magnetic structure of dilute magnetic semiconductor (Ba, K)(Zn, Mn)₂As₂". The authors listed are Benjamin A. Frandsen, Zizhou Gong, Maxwell W. Terban, Soham Banerjee, Bijuan Chen, Changqing Jin, Mikhail Feygenson, Yasutomo J. Uemura, and Simon J. L. Billinge. The article was published in Phys. Rev. B 94, 094102 on September 6, 2016. A red circle highlights the "Access by INFLIBNET" button, with a callout box containing the text "Your institute/consortium name". Other elements include a search bar at the top right, a "Go Mobile" link, social media sharing icons, and a navigation menu with options like "Article", "References", "Supplemental Material", "PDF", "HTML", and "Export Citation". The abstract text is partially visible at the bottom.

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Local atomic and magnetic structure of dilute magnetic semiconductor (Ba, K)(Zn, Mn)₂As₂

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Phys. Rev. B **94**, 094102 – Published 6 September 2016

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ABSTRACT

We have studied the atomic and magnetic structure of the dilute ferromagnetic semiconductor system (Ba, K)(Zn, Mn)₂As₂ through atomic and magnetic pair distribution function analysis of temperature-dependent x-ray and neutron total scattering data. We detected a change in curvature of the temperature-dependent unit cell volume of the average tetragonal crystallographic structure at a temperature coinciding with the onset of ferromagnetic order. We also observed the existence of a

Issue
Vol. 94, Iss. 9 — 1 September 2016

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