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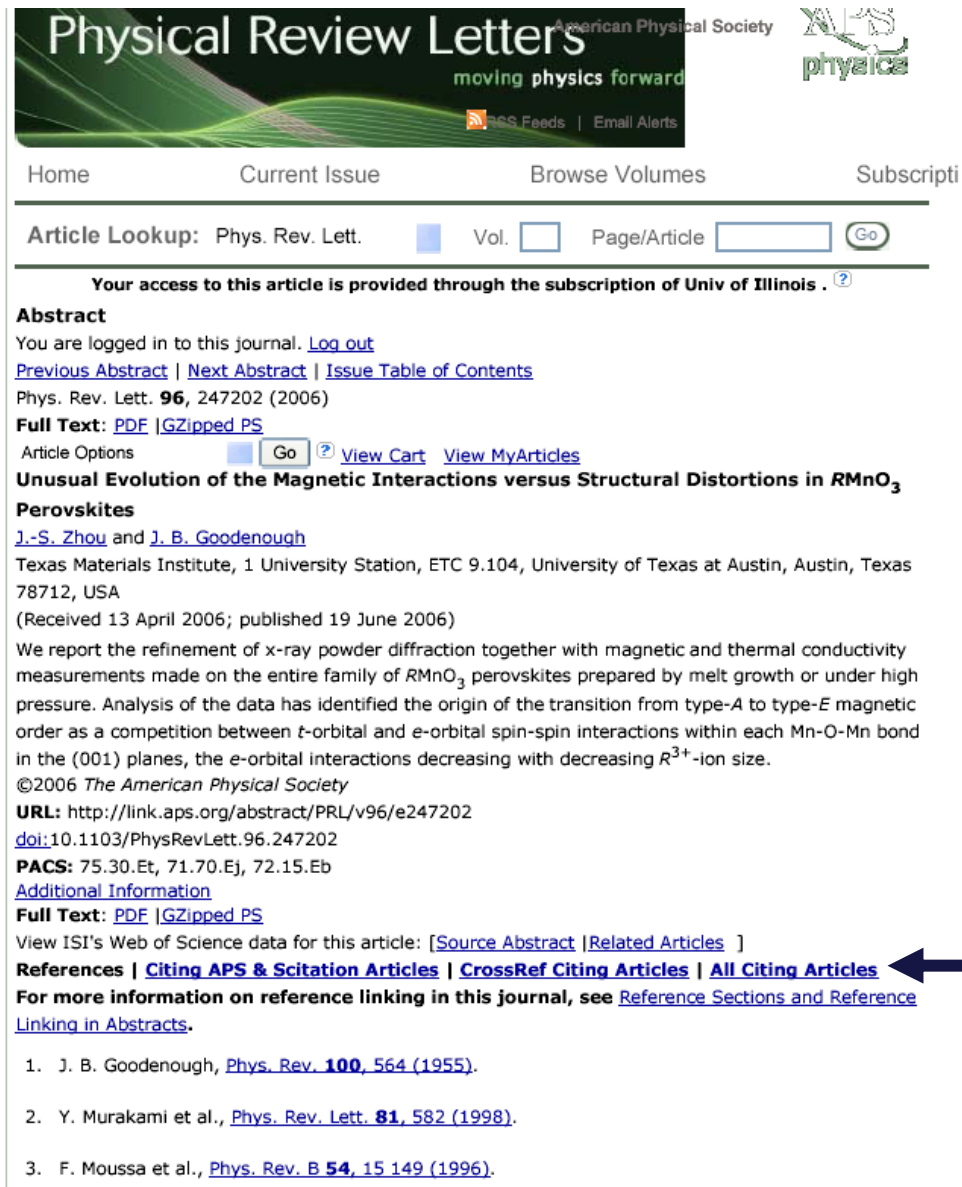
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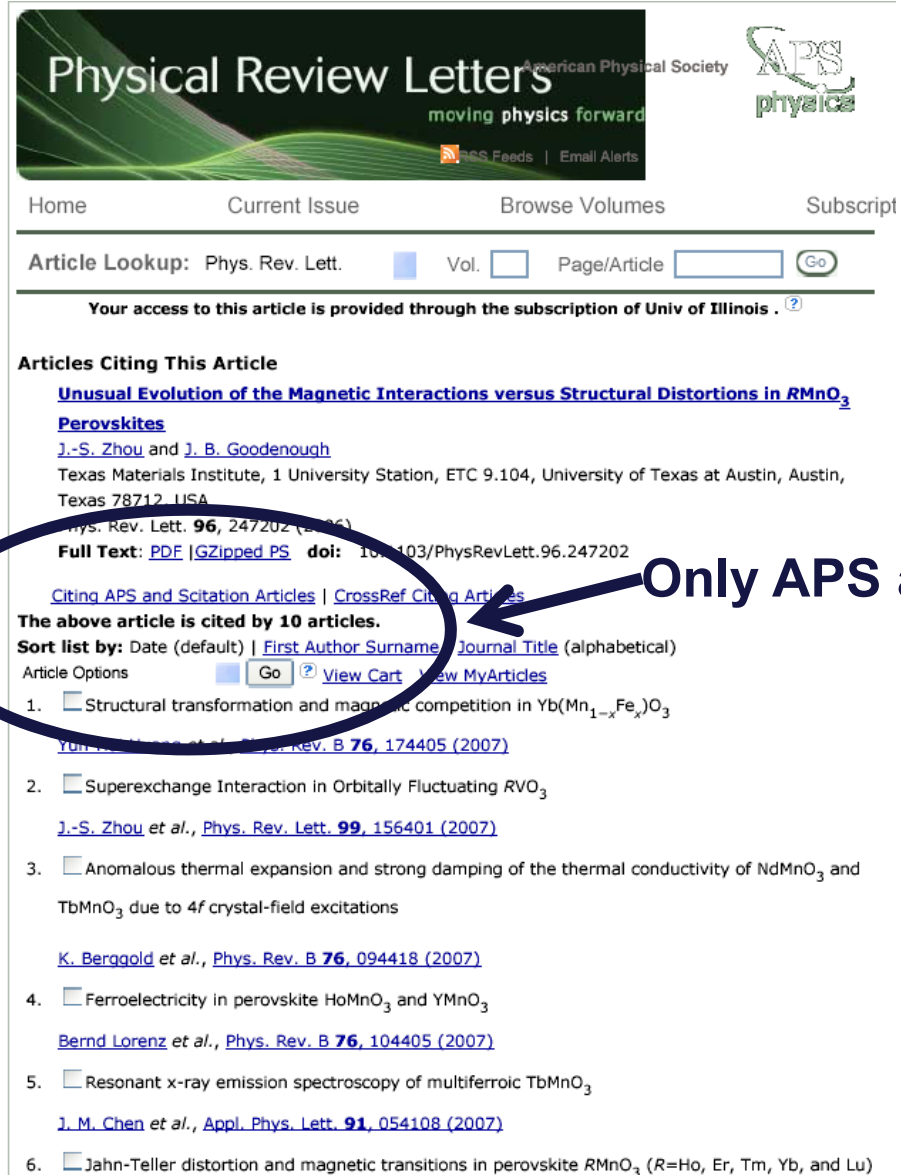
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[J.-S. Zhou](#) and [J. B. Goodenough](#)
Texas Materials Institute, 1 University Station, ETC 9.104, University of Texas at Austin, Austin, Texas 78712, USA
(Received 13 April 2006; published 19 June 2006)
We report the refinement of x-ray powder diffraction together with magnetic and thermal conductivity measurements made on the entire family of RMnO_3 perovskites prepared by melt growth or under high pressure. Analysis of the data has identified the origin of the transition from type-A to type-E magnetic order as a competition between t -orbital and e -orbital spin-spin interactions within each Mn-O-Mn bond in the (001) planes, the e -orbital interactions decreasing with decreasing R^{3+} -ion size.
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1. J. B. Goodenough, [Phys. Rev.](#) **100**, 564 (1955).
2. Y. Murakami et al., [Phys. Rev. Lett.](#) **81**, 582 (1998).
3. F. Moussa et al., [Phys. Rev. B](#) **54**, 15 149 (1996).

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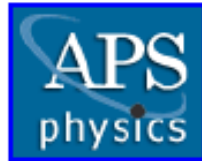
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INSPIRE NEWS

2017-09-08 Add your ORCID to your INSPIRE record
[@ORCID_Org](https://t.co/SH1tLdeDot)
2017-09-05 Got a question about INSPIRE? Try our FAQ:
<https://t.co/IO3aUSYYw2>
2017-09-04 #Service_tweet INSPIRE is still having intermittent problems, due to storage issues. More info here:
<https://t.co/pbUzaEQryZ>



How to keep track of scientific papers:

Choosing a citation manager

- [EasyBib](#)

Automatic works cited and bibliography formatting for MLA, APA, and Chicago/Turabian citation styles.

- [Mendeley](#)

Mendeley is a free reference manager and academic social network. Make your own fully-searchable library in seconds, cite as you write, and read and annotate your PDFs on any device.

- [Zotero](#)

Zotero is a free, easy-to-use tool to help you collect, organize, cite, and share your research sources.

More information on citation managers

[Citation Management Overview](#)—University Library

[Comparison of Reference Management Software](#)

To recap:

Huge resources are available on your desktop

Get familiar with the Physics Library website

Make friends with Mary Schlembach

If you need help finding something, ASK!

Figure out how you're going to keep track of all those papers



Questions?

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