

Online Scientific Resources and Performing Scientific Literature Searches



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The screenshot shows the footer of the University of Illinois Physics webpage. On the left is the University of Illinois logo and name. In the center, the text 'Physics Library link at bottom of Physics webpage' is written in yellow, with a yellow arrow pointing to the 'Physics Library' link in the 'LEARN MORE' section, which is also circled in yellow. On the right, there are social media icons and a 'Contact Us' button. The footer contains contact information for the Physics Department and various policy links.

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1110 West Green Street
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Contact Form: Email us
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- Major Laboratories and Observatories
- Professional Societies

Grant Resources

- NSF Directorate of Mathematical and Physical Sciences
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The screenshot shows the Illinois Library website for the Physics & Astronomy Library. The header includes navigation links: About, Libraries & Hours, Find Materials, Borrow Materials, Research Services, and Technologies. The main navigation bar contains: Electronic Resources, Handbooks & Reference Resources, Reserves, and Web Resources. The search section includes an 'Easy Search' box with a search bar and a 'Search' button, and a 'Journal and Article Locator' box with a 'DOI of Article' field and a 'Search' button. The 'Contact' section lists Mary C. Schlemba, Physics Librarian, with email schlemba@illinois.edu and phone (217) 333-3158. The 'Departments Served' section lists the Department of Physics and the Department of Astronomy. The 'Electronic Resources' section includes links for Graduate Student Resource Guides, Astronomy Information Resources, Physics Information Resources, Article Databases, Full-Text Portals, and Reference Data, Image Sources, and Pathfinders. The 'Dissertation and Theses' section includes IDEALS and ProQuest. The 'Handbooks and Reference Resources' section is also present. The footer contains contact information for the Main Library Information Desk, the Illinois University Library logo, and links for Privacy Policy, Library Building Project, Accessibility, Suggest a Purchase, and Library Staff Website.

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New Graduate Student Resource Guide

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Grainger Engineering Library > Departmental Resources Page > Department of Physics

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Engineering Easy Search

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- Applied Physics Letters
- Astronomy and Astrophysics
- Biophysical Journal
- Journal of Applied Physics
- Journal of Chemical Physics
- Journal of High Energy Physics
- Physical Review
- Physical Review B
- Physical Review C
- Physical Review D
- Physical Review Letters
- The Astrophysical Journal Letters

Journal Search

Recommended Search Tools

- Scopus
- INSPEC
- Web of Science
- arXiv

Professional Organizations

- American Physical Society (APS)

How to find scientific papers:

Article Databases



Article Databases

[SCOPUS](#) (Stay tuned for more on Celia's favorite database)

[ARIBIB \(Astronomisches Rechen-Institut BIBliographical Database for Astronomical References\)](#)

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Search on Title of Journal, follow “Full Text Available” links



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Science

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nature

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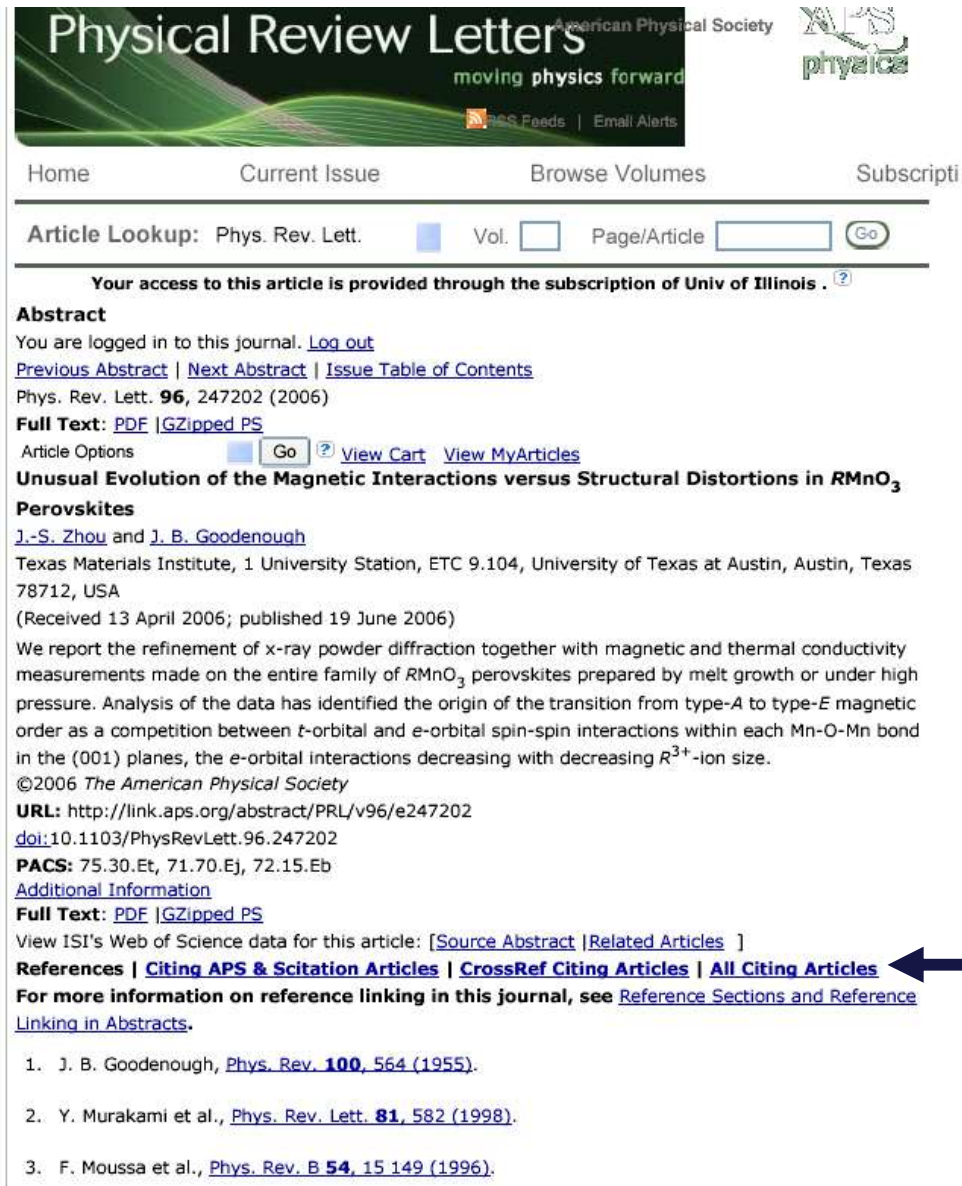
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The screenshot displays the Physical Review Letters website. At the top, the journal title "Physical Review Letters" is prominently featured, along with the American Physical Society logo and the tagline "moving physics forward". Below the header, there are navigation links for "RSS Feeds" and "Email Alerts".

The main content area is divided into several sections:

- Left Sidebar:** Contains navigation links for "APS Journals", "Current Issue", "Earlier Issues", "About This Journal", "Journal Staff", "About the Journals", "Search the Journals", "APS Home", and "Join APS". Below these are sections for "Authors" (with links for General Information, Submit a Manuscript, Copyright Form, Free to Read, Policies & Practices, Tips for Authors, and Professional Conduct) and "Referees" (with links for General Information and Submit a Report).
- Top Navigation:** Includes "Article Lookup" and "Journal Search".
- Search Form:** A search box with "Phys. Rev. Lett." selected and a "Vol." dropdown menu. Below it, there are options for "or by citation or" and a text input field for "Paste or enter a citation".
- Recent and Accepted:** Sections for "Recent" and "Accepted" articles, each with an RSS icon.
- On the Cover:** A featured article from February 15, 2008, titled "Calculation of angular distribution of ejected electrons for direct ionization of He from electron bombardment. The larger lobe is due to binary collisions, while the smaller one comes from recoil events." It includes a link to "Read Article | More Covers".
- 50 Years PR:** A celebratory banner for the journal's 50th anniversary, featuring the text "50 years PR moving physics forward" and "PRL Celebrates 50". It includes a link to "Join us as we commemorate 50 years forward" and a list of featured content: "Editorials and Essays" and "Milestone Letters".
- Did you know?:** A section stating "APS provides a variety of RSS feeds in journal feeds covering topics of strong interest".

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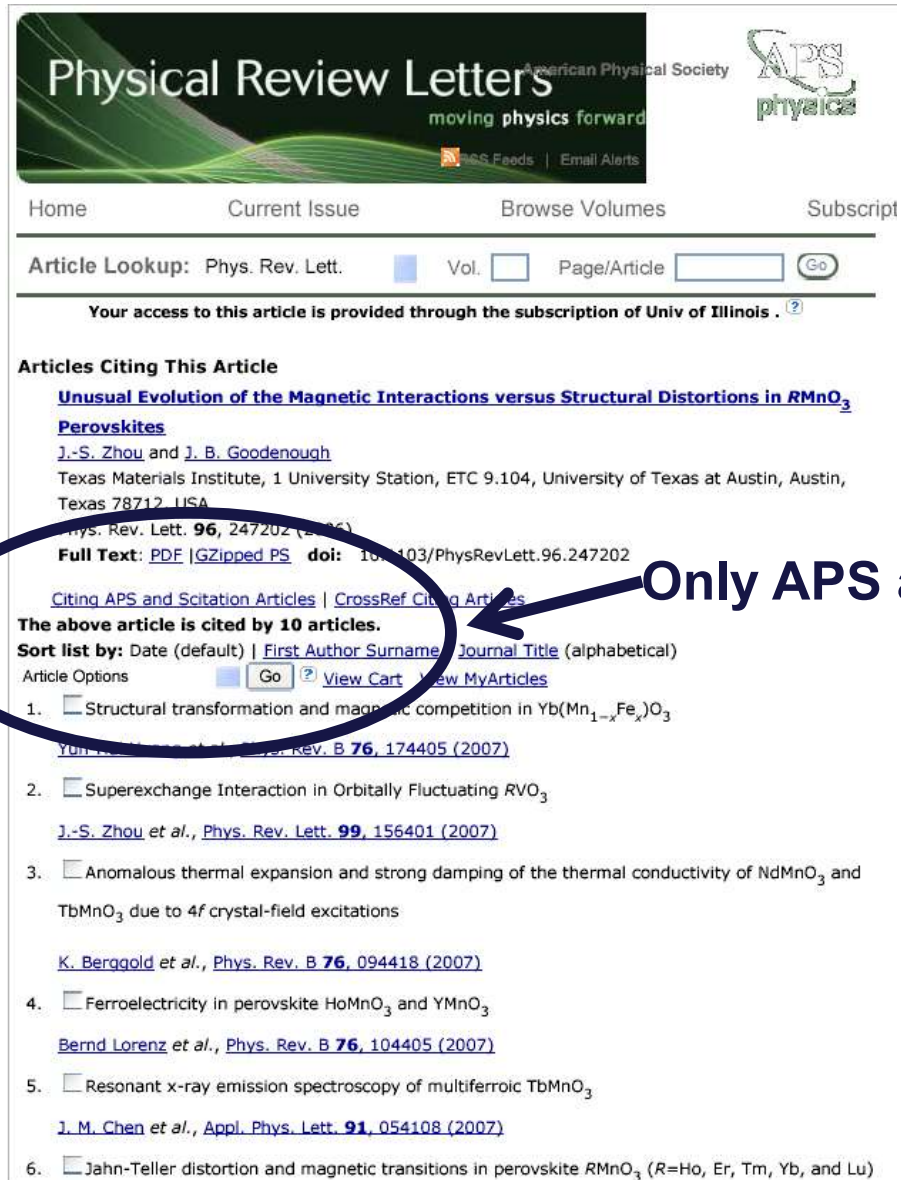
Unusual Evolution of the Magnetic Interactions versus Structural Distortions in $RMnO_3$ Perovskites
[J.-S. Zhou](#) and [J. B. Goodenough](#)
Texas Materials Institute, 1 University Station, ETC 9.104, University of Texas at Austin, Austin, Texas 78712, USA
(Received 13 April 2006; published 19 June 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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URL: <http://link.aps.org/abstract/PRL/v96/e247202>
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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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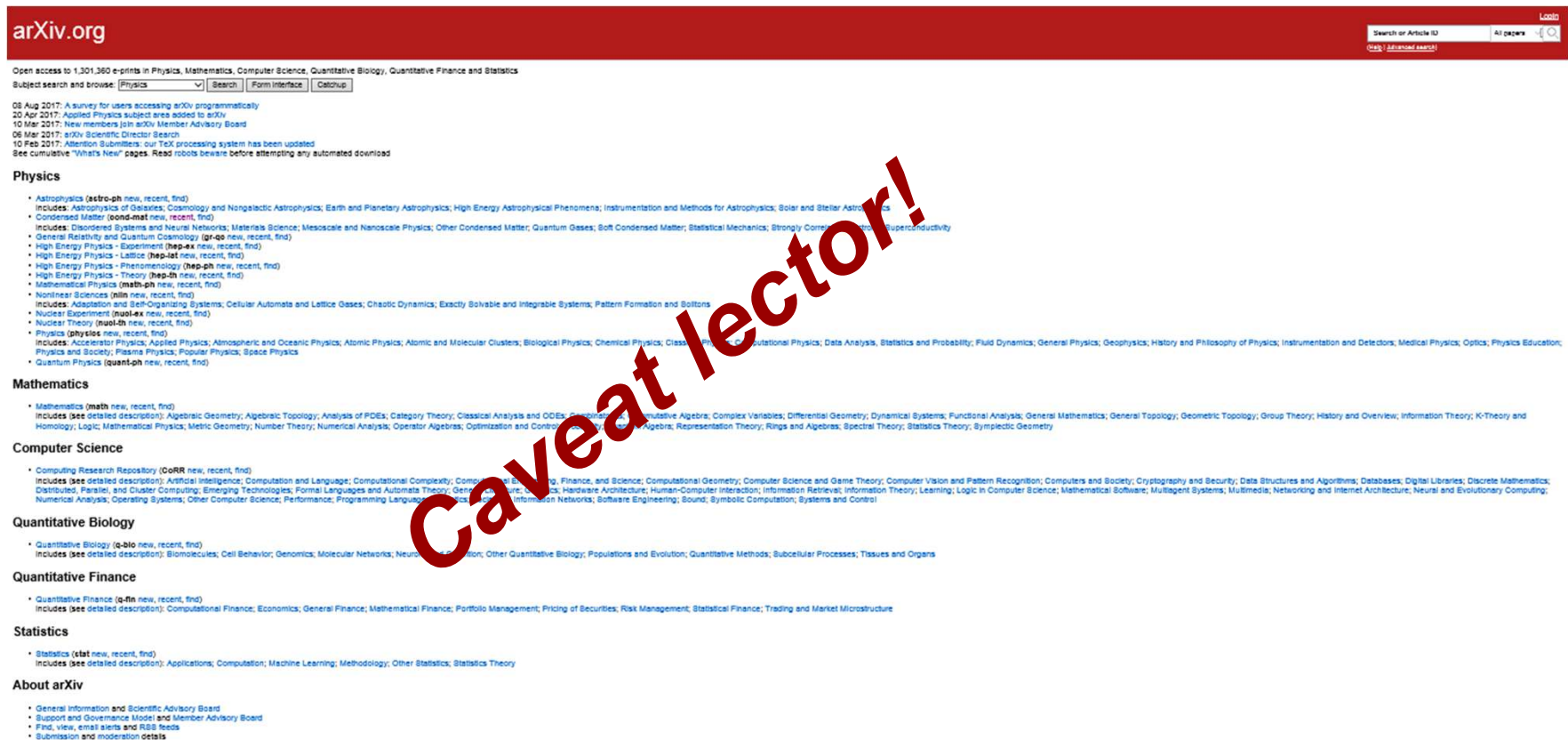
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SPIRES syntax is (mostly) supported (requires "find")

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<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?

slcooper@illinois.edu

cmelliot@illinois.edu