

Online Scientific Resources and Performing Scientific Literature Searches



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The image shows the footer of the University of Illinois Physics webpage. It features the University of Illinois logo and name on the left. The main content area is dark blue with white text. A yellow arrow points to the 'Physics Library' link in the 'LEARN MORE' section, which is also circled in yellow. Other links include 'Careers', 'Why Illinois', 'History', 'Calendar', 'News', 'Admissions', 'Academics', 'Research', 'People', 'Outreach', and 'Alumni'. A 'Contact Us' button is in the top right. The footer contains links for 'About Cookies', 'Copyright © 2021 University of Illinois Board of Trustees', 'Cookie Policy | Privacy', 'Powered by SiteManager | Contact Webmaster', and an upward arrow icon.

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URBANA-CHAMPAIGN

Physics Library link at bottom of Physics webpage

Physics

The Grainger College of Engineering
University of Illinois

Department of Physics
1110 West Green Street
Urbana, IL 61801-3003, USA

Contact Form: Email us
Main Office: (217) 333-3761 | mainoffice@physics.illinois.edu
Graduate Office: (217) 333-3645 | grad@physics.illinois.edu
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Physics Librarian

Mary Schlembach

Introduce yourself to Mary and make her your friend—she can find *anything!*

The screenshot shows the Illinois Library website with the following content:

- Navigation: About, Libraries & Hours, Find Materials, Borrow Materials, Research Services, Technologies
- Search: Search Library Webpages, My Account
- Section: Physics & Astronomy Library
- Sub-sections: Electronic Resources, Handbooks & Reference Resources, Reserves, Web Resources
- Search Tools: Easy Search (Enter search terms, Keyword, Search), Journal and Article Locator (DOI of Article, Search)
- Contact Information (circled in blue):
 - Contact**
 - Mary C. Schlembach
 - Physics Librarian
 - Email: schlemba@illinois.edu
 - Phone: (217) 333-3158
 - Departments Served**
 - Department of Physics
 - Department of Astronomy
- Resource Lists:
 - Electronic Resources:** Graduate Student Resource Guides, Astronomy Information Resources, Physics Information Resources, Article Databases, Full-Text Portals, Reference Data, Image Sources, and Pathfinders
 - Web Resources:** Data Sources, Major Laboratories and Observatories, Professional Societies
 - Grant Resources:** NSF Directorate of Mathematical and Physical Sciences, Division of Physics (PHY) Advice to PIs on Data Management Plans, Data Management Plan Overview, NSF Engineering Directorate Data Management Plan Template (PDF), Data Management Plan (DMP) for NSF Proposal (Word)
- Footer:
 - Main Library Information Desk: (217) 333-2299, 1408 W. Gregory Dr., Urbana, IL 61801
 - ILLINOIS University Library
 - Privacy Policy, Library Building Project, Accessibility, Suggest a Purchase, Library Staff Website

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[New Graduate Student Resource Guide](#)

[Article Databases](#)

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Easy Search

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Department of Physics
Department of Astronomy

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- Graduate Student Resource Guides
- Astronomy Information Resources
- Physics Information Resources
- Article Databases
- Full-Text Portals
- Reference Data, Image Sources, and Pathfinders

Dissertation and Theses

- IDEALS (U of I Institutional Repository)
- ProQuest

Handbooks and Reference Resources

Web Resources

- Data Sources
- Major Laboratories and Observatories
- Professional Societies

Grant Resources

- NSF Directorate of Mathematical and Physical Sciences
- Division of Physics (PHY) Advice to PIs on Data Management Plans
- Data Management Plan Overview
- NSF Engineering Directorate Data Management Plan Template (PDF)
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New Graduate Student Resource Guide

UNIVERSITY LIBRARY
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Grainger Engineering Library > Departmental Resources Page > Department of Physics

Physics Information Resources

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Starting page

SEARCH

Top Journals ⓘ

- 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

Recommended Search Tools ⓘ

- Scopus
- INSPEC
- Web of Science
- arXiv

Professional Organizations ⓘ

- American Physical Society (APS)

Journal Search ⓘ

How to find scientific papers:

Article Databases



Article Databases

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

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

[arXiv.org E-Print Archive](#)

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Science

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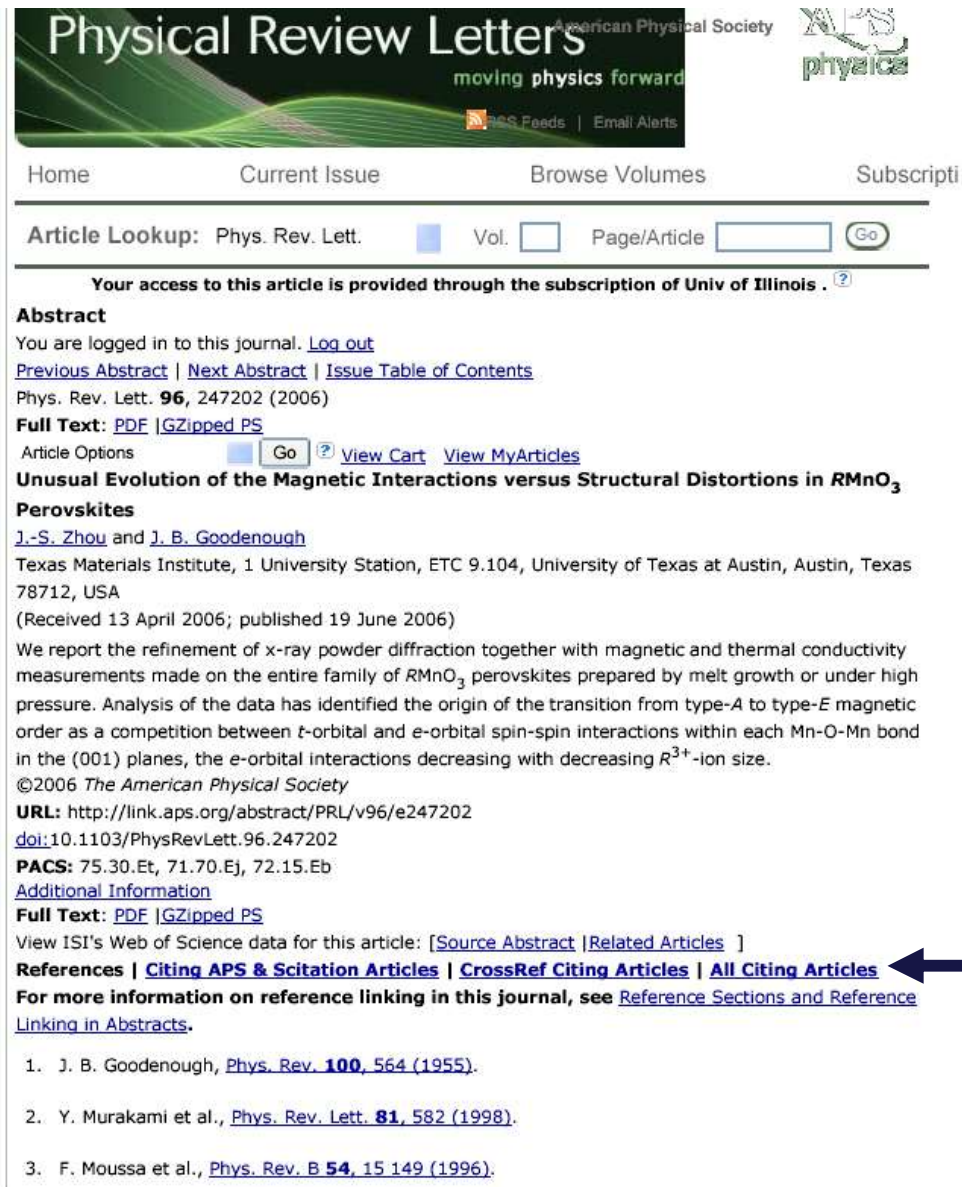
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The screenshot displays the Physical Review Letters website. At the top, the journal title "Physical Review Letters" is prominently featured, along with the American Physical Society logo and the tagline "moving physics forward". Below the header, 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". The "Article Lookup" section is circled in blue. It features a search form with "Phys. Rev. Lett." selected, a "Vol." dropdown menu, and a search button. Below the search form is a text input field labeled "Paste or enter a citation".
- Central Content:** Displays the "Physical Review Letters" title and a "Highlights" section. The highlight features a 3D visualization of a particle and the text: "On the Cover February 15, 2008 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." Below this is a link for "Read Article | More Covers".
- Right Content:** Features a "Recent" section with a large "50 years PR" graphic and the text "moving physics forward". Below this is a section titled "PRL Celebrates 50 Years" with the text "Join us as we commemorate 50 years forward." and a list of featured content: "Editorials and Essays" and "Milestone Letters".

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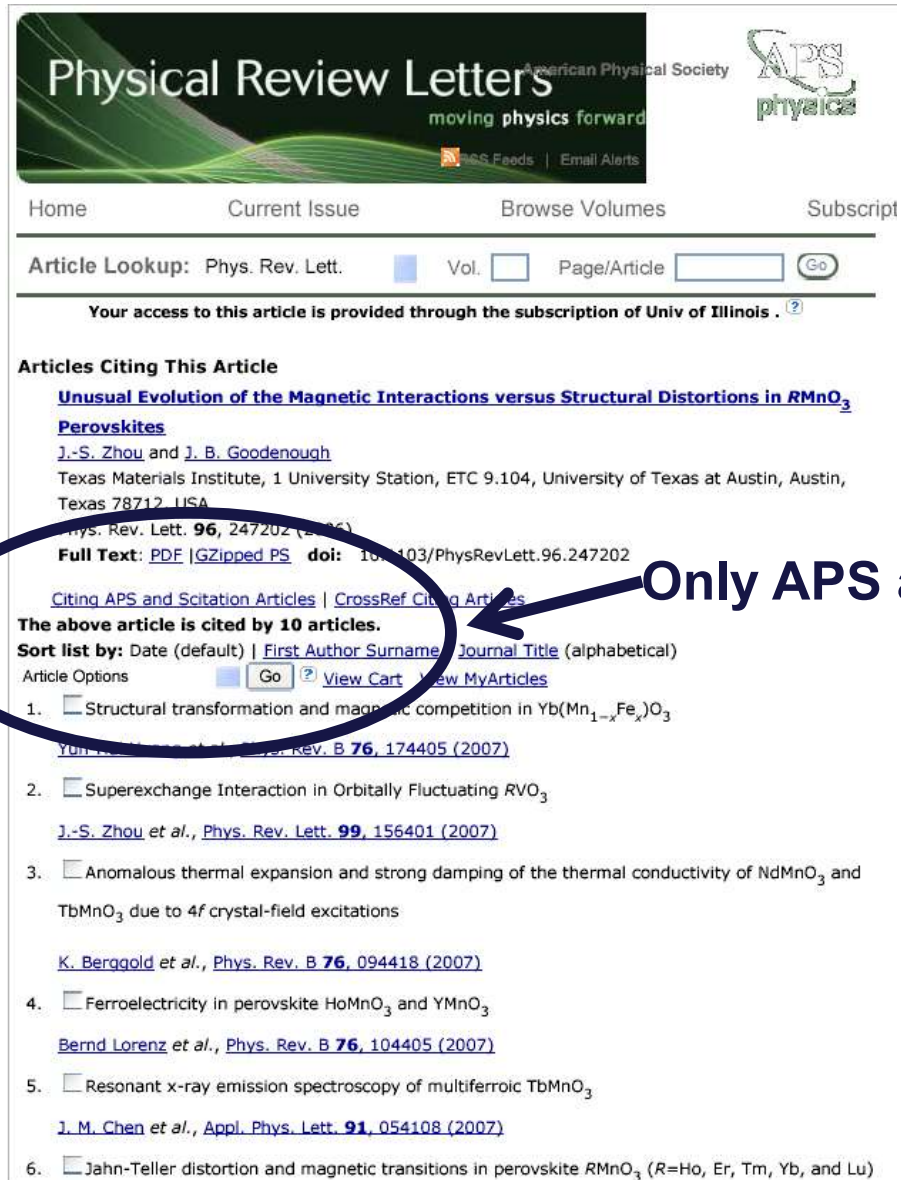
Unusual Evolution of the Magnetic Interactions versus Structural Distortions in $RMnO_3$ Perovskites
[J.-S. Zhou](#) and [J. B. Goodenough](#)
Texas Materials Institute, 1 University Station, ETC 9.104, University of Texas at Austin, Austin, Texas 78712, USA
(Received 13 April 2006; published 19 June 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>
doi: [10.1103/PhysRevLett.96.247202](https://doi.org/10.1103/PhysRevLett.96.247202)
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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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[J.-S. Zhou et al., Phys. Rev. Lett. **99**, 156401 \(2007\)](#)
- Anomalous thermal expansion and strong damping of the thermal conductivity of $NdMnO_3$ and $TbMnO_3$ due to $4f$ crystal-field excitations
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[Bernd Lorenz et al., Phys. Rev. B **76**, 104405 \(2007\)](#)
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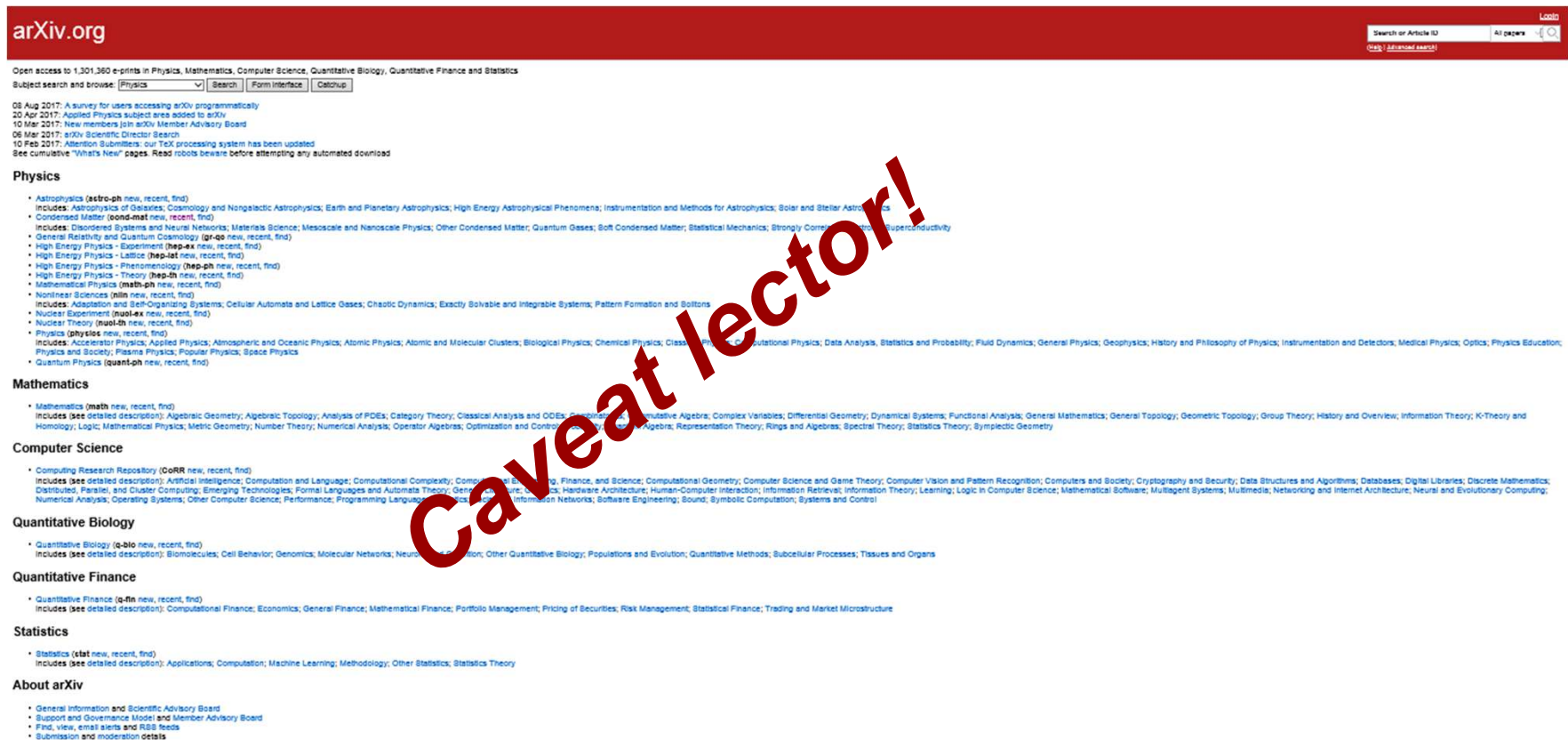
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- Quantitative Biology ([q-bio new](#), [recent](#), [find](#))
Includes (see detailed description): Biomolecules; Cell Behavior; Demographics; Molecular Networks; Neurobiology; Other Quantitative Biology; Populations and Evolution; Quantitative Methods; Subcellular Processes; Tissues and Organs

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Use "find" for SPIRES-style search ([other tips](#))

Brief format [Easy Search](#) [Advanced Search](#)

[find j Phys.Rev.Lett. 108](#) - [more](#)

HOW TO SEARCH

SPIRES syntax is (mostly) supported (requires "find")

find a richter, b and t quark and date > 1984
find j phys.rev.,D50,1140 or j hep,0903,112
find eprint arxiv:1007.5048 (Note the plots available on the detailed record)
find fulltext "quark-gluon plasma" (Note new "fulltext" operator)
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author:randall | author:sundrum cited:450->1350

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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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