

# Online Scientific Resources and Performing Scientific Literature Searches

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*"If Prince Charming wants to find out who fits the glass slipper, wouldn't it be faster to use the Internet?"*

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Mary Schlembach

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

**UNIVERSITY LIBRARY**  
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Grainger Engineering Library > Departmental Resources Page > Department of Physics

### Physics Information Resources

#### Faculty Research ⓘ

- AMO/Quantum Physics [+]
- Astrophysics/Cosmology [+]
- Biological Physics [+]
- Condensed Matter Physics [+]
- High Energy Physics [+]
- Nuclear Physics [+]
- Physics Education [+]

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Enter DOI here

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#### Find Citing Articles ⓘ

Full or partial journal name

Article title words

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**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

#### Journal Search ⓘ

#### Recommended Search Tools ⓘ

- Scopus
- INSPEC
- Web of Science
- arXiv

#### Professional Organizations ⓘ

- American Physical Society (APS)

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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 search bar and a 'Search' button. The 'Dissertation and Theses' section lists: IDEALS (U of I Institutional Repository) and ProQuest. 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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[SCOPUS](#) (Stay tuned for more on Celia's favorite database)

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

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Phys. Rev. Lett.: <http://prl.aps.org/> (general physics)

Phys. Rev. A: <http://pra.aps.org/> (atomic, mol., optical)

Phys. Rev. B: <http://prb.aps.org/> (condensed matter)

Phys. Rev. C: <http://prc.aps.org/> (nuclear physics)

Phys. Rev. D: <http://prd.aps.org/> (particle/cosmology)

Phys. Rev. E: <http://pre.aps.org/> (soft matter, statistical)

**Science**

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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.  
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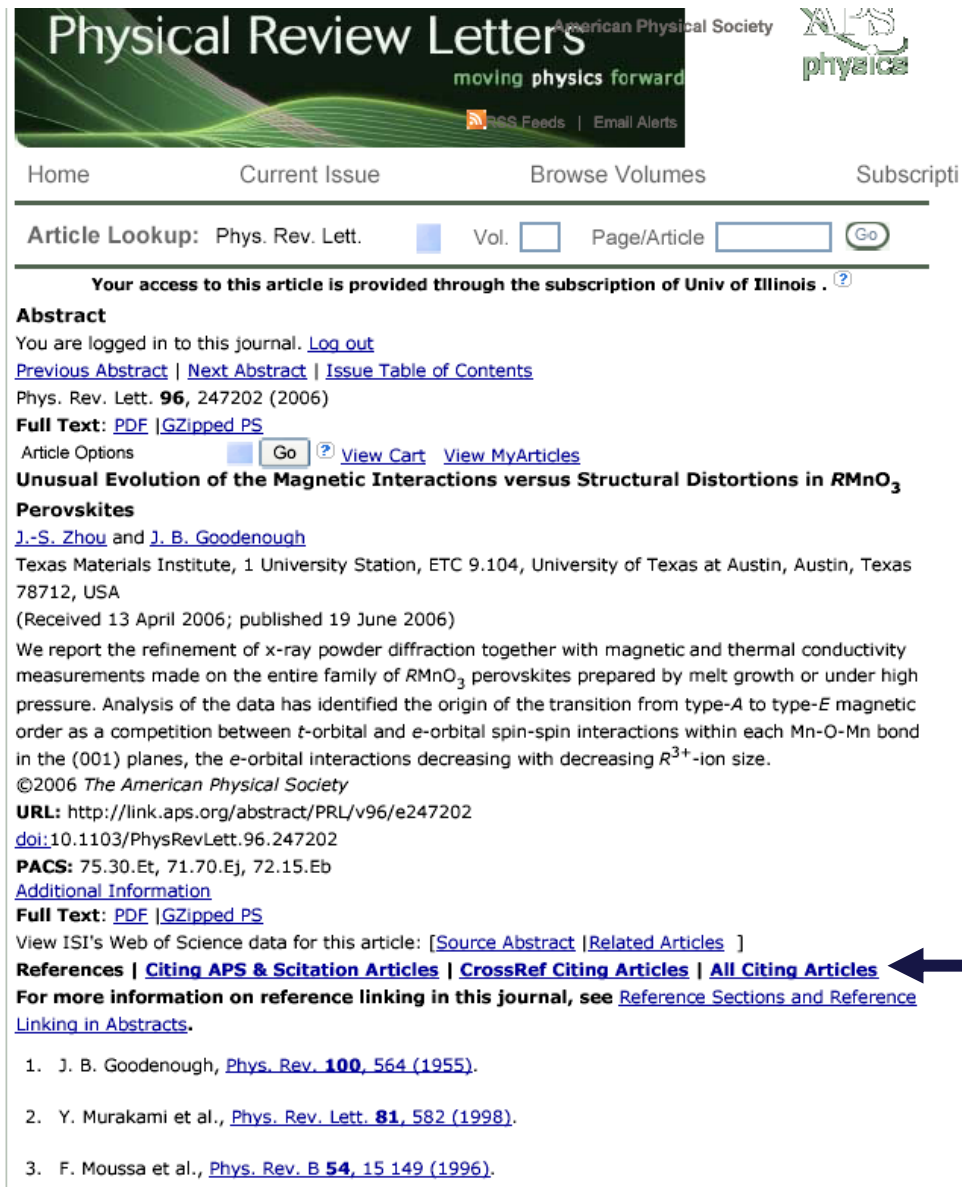
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Phys. Rev. Lett. **96**, 247202 (2006)  
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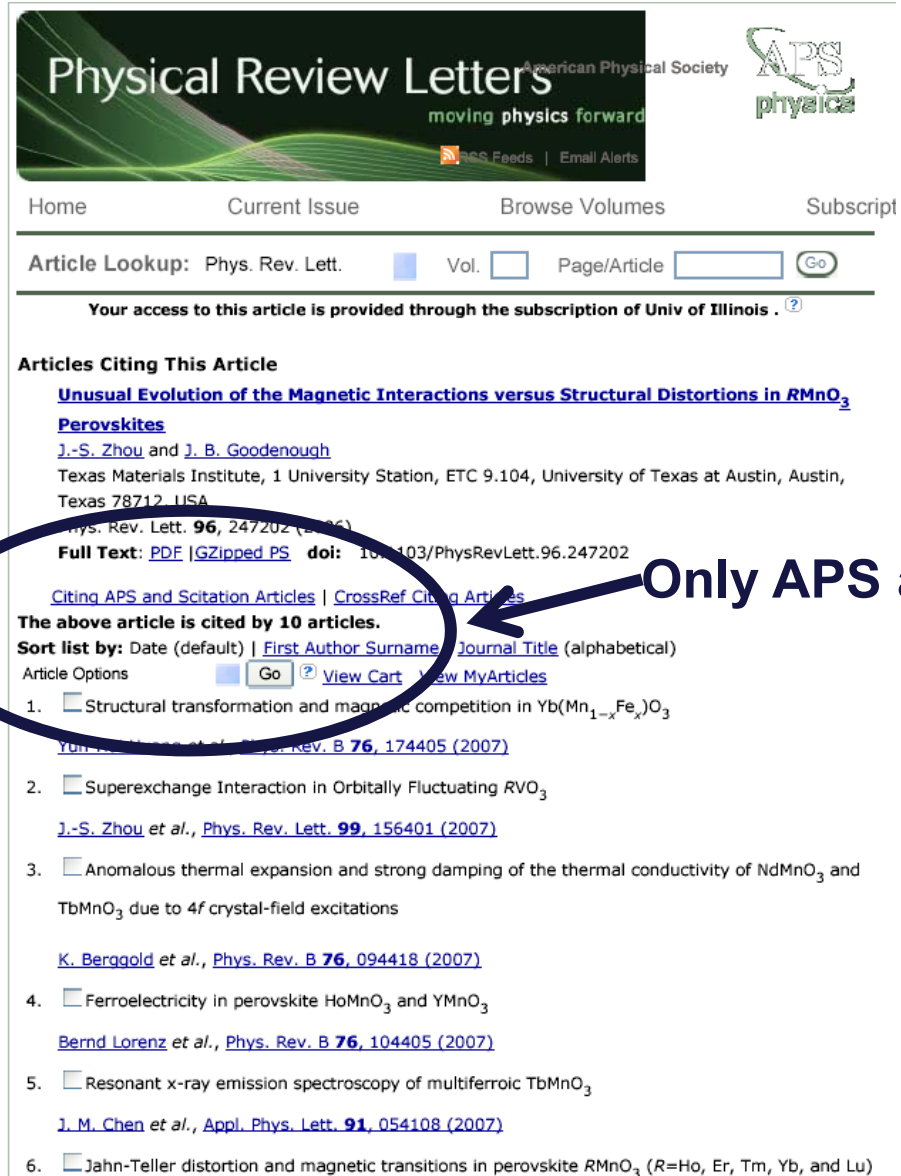
**Unusual Evolution of the Magnetic Interactions versus Structural Distortions in  $RMnO_3$  Perovskites**  
[J.-S. Zhou](#) and [J. B. Goodenough](#)  
Texas Materials Institute, 1 University Station, ETC 9.104, University of Texas at Austin, Austin, Texas 78712, USA  
(Received 13 April 2006; published 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)  
**PACS:** 75.30.Et, 71.70.Ej, 72.15.Eb  
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**References** | [Citing APS & Scitation Articles](#) | [CrossRef Citing Articles](#) | [All Citing Articles](#)  
For more information on reference linking in this journal, see [Reference Sections and Reference Linking in Abstracts](#).

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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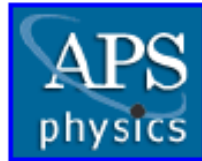


The screenshot shows the Physical Review Letters website interface. At the top, there is a banner with the journal title and the American Physical Society logo. Below the banner are navigation links: Home, Current Issue, Browse Volumes, and Subscrip. An article lookup form is present with fields for 'Phys. Rev. Lett.', 'Vol.', and 'Page/Article', and a 'Go' button. A message states: 'Your access to this article is provided through the subscription of Univ of Illinois.' Below this, the section 'Articles Citing This Article' is displayed. The main article is 'Unusual Evolution of the Magnetic Interactions versus Structural Distortions in  $RMnO_3$  Perovskites' by J.-S. Zhou and J. B. Goodenough. The citation list below it includes:

- Structural transformation and magnetic competition in  $Yb(Mn_{1-x}Fe_x)O_3$   
[Yun-Ho Kim et al., Phys. Rev. B \*\*76\*\*, 174405 \(2007\)](#)
- Superexchange Interaction in Orbitally Fluctuating  $RVO_3$   
[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  
[K. Berggold et al., Phys. Rev. B \*\*76\*\*, 094418 \(2007\)](#)
- Ferroelectricity in perovskite  $HoMnO_3$  and  $YMnO_3$   
[Bernd Lorenz et al., Phys. Rev. B \*\*76\*\*, 104405 \(2007\)](#)
- Resonant x-ray emission spectroscopy of multiferroic  $TbMnO_3$   
[J. M. Chen et al., Appl. Phys. Lett. \*\*91\*\*, 054108 \(2007\)](#)
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**Criteria:** AND  Abstract/Title

AND  Full Text

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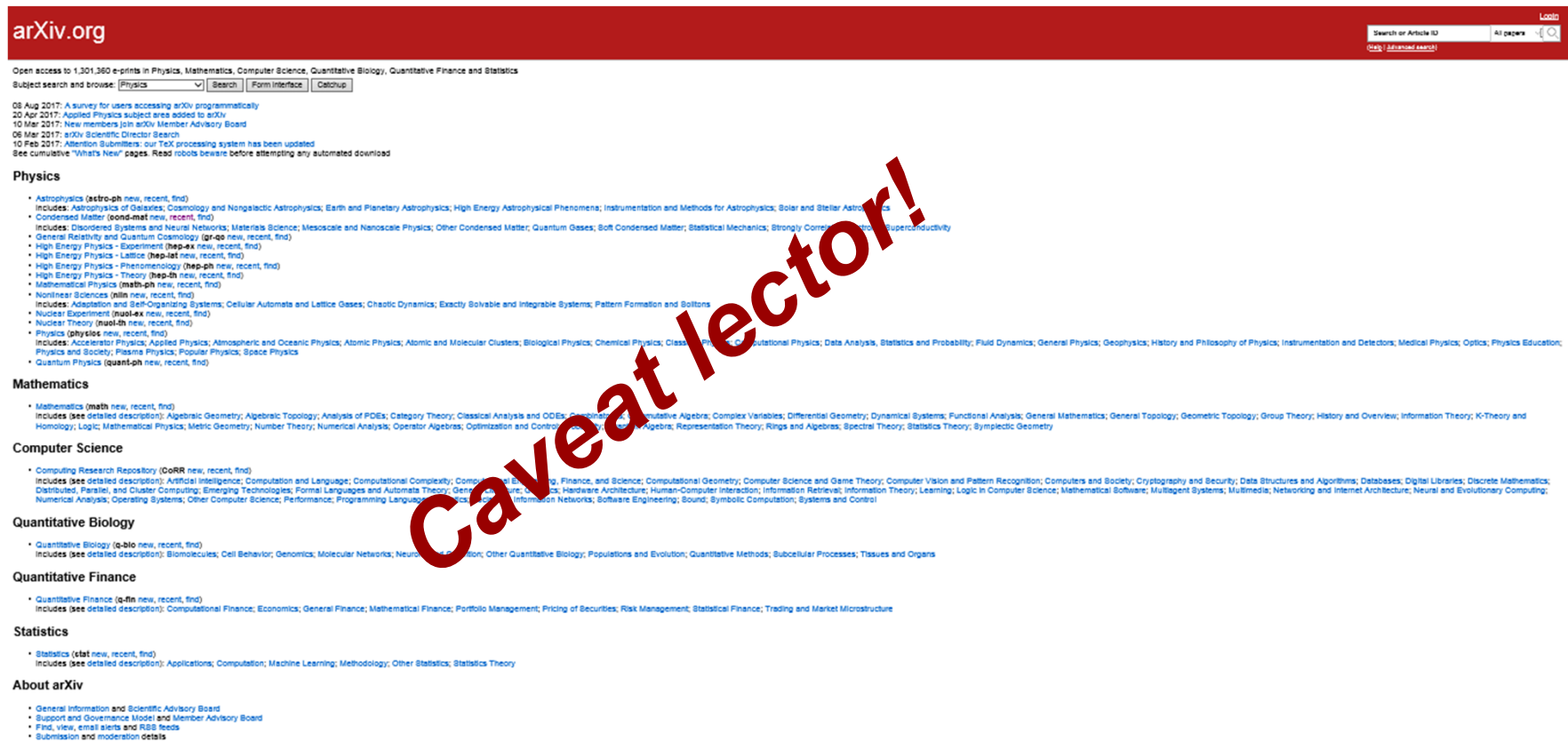
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20 Apr 2017: Applied Physics subject area added to arXiv  
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06 Mar 2017: arXiv Scientific Director Search  
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## HEP Search

### High-Energy Physics Literature Database

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

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

[find "Phys.Rev.Lett..108" : mxre](#)

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[find j phys.rev.,D50,1140 or j hep,0903,112](#)  
[find eprint arxiv:1007.5048](#) (Note the plots available on the detailed record)  
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[author:randall | author:sundrum cited:450->1350](#)

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<https://t.co/O3aUSYYw2>  
2017-09-04 #Service\_tweet INSPIRE is still having intermittent problems, due to storage issues. More info here:  
<https://t.co/pbUzaEQryZ>



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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](#)

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[Citation Management Overview](#)—University Library

[Comparison of Reference Management Software](#)

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---

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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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