

# Stanford

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## Yuri Suzuki

Professor of Applied Physics and, by courtesy, of Materials Science and Engineering

### Bio

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#### BIO

My experimental group focuses on novel ground states and functional properties in condensed matter systems synthesized via atomically precise thin film deposition techniques with a recent emphasis on highly correlated electronic systems. Many of these phenomena are then incorporated into prototypical device structures. Our recent focus is on: emergent interfacial phenomena electronic and magnetic phenomena, spin current generation, propagation, and control in complex oxide based ferromagnets strongly correlated materials, multifunctional behavior in complex oxide thin films and heterostructures, low dimensional electron gas systems.

#### ACADEMIC APPOINTMENTS

- Professor, Applied Physics
- Professor (By courtesy), Materials Science and Engineering
- Member, Bio-X

#### ADMINISTRATIVE APPOINTMENTS

- Director, Stanford Nano Shared Facilities, (2021- present)

#### HONORS AND AWARDS

- Vannevar Bush Faculty Fellowship, Department of Defense (2014-2019)
- Fellow, American Physical Society (2011)
- American Competitiveness and Innovation Fellow, National Science Foundation (2008)
- Maria Goeppert-Mayer Award, American Physical Society (2005)
- Presidential Chair Fellow, UC Berkeley (2003-2004)
- Outstanding Educator for having most influenced Merrill Presidential Scholar, Jonathan Eser, Cornell University (2002)
- Robert Lansing Hardy Award, The Materials, Minerals and Metals Society (1999)
- Fellowship for Science and Engineering, David and Lucile Packard Foundation (1998-2003)
- Faculty Early Career Development Award, National Science Foundation (1997-2001)
- Young Investigator Award, Office of Naval Research (1997-2000)
- Fellowship, ARCS Foundation (1994)
- Predoctoral Fellowship, National Science Foundation (1989-1992)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Materials Research Society

- Member, American Physical Society
- Member, Program Committee, 64th Annual Conference on Magnetism and Magnetic Materials (2020 - 2020)
- Member, Program Committee, 63rd Annual Conference on Magnetism and Magnetic Materials (2019 - 2019)
- Member, Program Committee, 23rd International Colloquium on Magnetic Films and Surfaces (2018 - 2018)
- Member, Program Committee, Physics and Chemistry of Semiconductor Interfaces (2018 - 2018)
- Member, Program Committee, 62nd Annual Conference on Magnetism and Magnetic Materials (2017 - 2017)
- Member, Program Committee, 61st Annual Conference on Magnetism and Magnetic Materials (2016 - 2016)
- Member, Program Committee, Joint Intermag and Conference on Magnetism and Magnetic Materials (2015 - 2016)
- Member, Program Committee, 60th Magnetism and Magnetic Materials (2015 - 2015)
- Member, Program Committee, 59th Annual Conference on Magnetism and Magnetic Materials (2014 - 2014)
- Member, Executive Committee, Topical Group in Magnetism, American Physical Society (2013 - 2016)
- Member, Material Research Society Bulletin, 2014 Volume organizer (2013 - 2014)
- Member, Program Committee, 12th Joint Intermag and Conference on Magnetism and Magnetic Materials (2013 - 2013)
- Member, Program Committee, 58th Annual Conference on Magnetism and Magnetic Materials (2013 - 2013)
- Member, Advanced Light Source User's Executive Committee (2012 - 2014)
- Member, Nominating Committee of Division of Materials Physics, American Physical Society (2012 - 2013)
- Member, Program Committee, InterMag 2012 (2012 - 2012)
- Member, Program Committee, 56th Annual Conference on Magnetism and Magnetic Materials (2011 - 2011)
- Member, Program committee, Magnetic Metallic Multilayers 2010 Conference (2010 - 2010)
- Member, Summer High School Apprenticeship Research Program (SHARP) Executive Committee of the UC Berkeley Nanosciences & Nanoengineering Institute (2007 - 2008)
- Member, Program Committee, InterMag 2006 (2006 - 2006)
- Member, 2006 Maria Goeppert-Mayer Award Selection Committee (American Physical Society) (2006 - 2006)
- Member, Organizing Committee for the 49th Magnetism and Magnetic Materials Conference (2004 - 2004)
- Member, Organizing Committee, Focused Session of the 2004 American Physical Society (2004 - 2004)
- Organizer, Workshop on "Spin Polarized Materials" for DOE Center of Excellence in Synthesis and Processing. (2004 - 2004)
- Member, Development of High School Internship program with local high school, UC Berkeley (2003 - 2012)
- Member, Board of Directors of the Materials Research Society (2003 - 2005)
- Member, Program Committee, 47th Annual Magnetism and Magnetic Materials Conference. (2002 - 2002)
- Chair, Fall 2001 Materials Research Society (MRS) Meeting (2001 - 2001)
- Member, Program Committee, 46th Annual Magnetic Materials Conference. (2001 - 2001)
- Organizer, MRS Fall 1998 Symposium , "Magnetic Oxides and Oxides Devices" (1998 - 1998)

## PROFESSIONAL EDUCATION

- A.B. magna cum laude, Harvard University , Dept. of Physics (1989)
- Ph.D., Stanford University , Dept. of Applied Physics (1995)

## PATENTS

- E.M. Gyorgy J. M. Phillips Y. Suzuki R.B. van Dover. "United States Patent 5,728,421 Article Comprising Spinel-Structure Material on a Substrate, and Method of Making Article"
- E.M. Gyorgy J. M. Phillips Y. Suzuki R.B. van Dover. "United States Patent 5665465 Article Comprising Exchange-Coupled Magnetic Layers"

- C.K. Ober S.L. Sass Y. Suzuki. "United States Patent 6,329,070 Fabrication of Two Dimensionally Periodic surface Structures with Spacings Between 50 and 1.5 Nanometers"

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Her interests are focused on novel ground states and functional properties in condensed matter systems synthesized via atomically precise thin film deposition techniques with a recent emphasis has been on highly correlated electronic systems:

- Emergent interfacial electronic & magnetic phenomena through complex oxide heteroepitaxy
- Low dimensional electron gas systems
- Spin current generation, propagation and control in complex oxide-based ferromagnets
- Multifunctional behavior in complex oxide thin films and heterostructures

## Teaching

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### COURSES

#### 2021-22

- Functional Materials and Devices: APPPHYS 77N (Aut)
- Quantum Materials: APPPHYS 204 (Win)

#### 2020-21

- Functional Materials and Devices: APPPHYS 77N (Aut)
- Quantum Materials: APPPHYS 204 (Win)

#### 2019-20

- Condensed Matter Seminar: APPPHYS 470 (Aut, Win)
- Functional Materials and Devices: APPPHYS 77N (Aut)
- Quantum Materials: APPPHYS 204 (Win)

#### 2018-19

- Functional Materials and Devices: APPPHYS 77N (Aut)
- Quantum Materials: APPPHYS 204 (Win)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Winston Pouse

#### Orals Chair

Yuval Gannot

#### Doctoral Dissertation Advisor (AC)

Sanyum Channa, Maggie Kane, Emily Lindgren, Lauren Riddiford, Charles Zheng

#### Orals Evaluator

Kyuhoo Lee

#### Doctoral Dissertation Co-Advisor (AC)

Caleb Zerger

**Doctoral (Program)**

Melissa Guidry, Cheng Guo, Brendan Marsh, Edwin Ng, Daniel Wong

**Publications**

**PUBLICATIONS**

- **The role of iron in magnetic damping of Mg(Al,Fe)(2)O-4 spinel ferrite thin films** *APPLIED PHYSICS LETTERS*  
Wisser, J. J., Riddiford, L. J., Altman, A., Li, P., Emori, S., Shafer, P., Klewe, C., N'Diaye, A. T., Arenholz, E., Suzuki, Y.  
2020; 116 (14)
- **Emergent electric field control of phase transformation in oxide superlattices.** *Nature communications*  
Yi, D. n., Wang, Y. n., van Erve, O. M., Xu, L. n., Yuan, H. n., Veit, M. J., Balakrishnan, P. P., Choi, Y. n., N'Diaye, A. T., Shafer, P. n., Arenholz, E. n., Grutter, A. n., Xu, et al  
2020; 11 (1): 902
- **Magnetism and transport in transparent high-mobility BaSnO3 films doped with La, Pr, Nd, and Gd** *PHYSICAL REVIEW MATERIALS*  
Alaan, U. S., Wong, F. J., Ditto, J. J., Robertson, A. W., Lindgren, E., Prakash, A., Haugstad, G., Shafer, P., N'Diaye, A. T., Johnson, D., Arenholz, E., Jalan, B., Browning, et al  
2019; 3 (12)
- **Damping Enhancement in Coherent Ferrite-Insulating-Paramagnet Bilayers** *PHYSICAL REVIEW APPLIED*  
Wisser, J. J., Grutter, A. J., Gilbert, D. A., N'Diaye, A. T., Klewe, C., Shafer, P., Arenholz, E., Suzuki, Y., Emori, S.  
2019; 12 (5)
- **Ultrathin interfacial layer with suppressed room temperature magnetization in magnesium aluminum ferrite thin films** *APPLIED PHYSICS LETTERS*  
Wisser, J. J., Emori, S., Riddiford, L., Altman, A., Li, P., Mahalingam, K., Urwin, B. T., Howe, B. M., Page, M. R., Grutter, A. J., Kirby, B. J., Suzuki, Y.  
2019; 115 (13)
- **Efficient spin current generation in low-damping Mg(Al, Fe)(2)O-4 thin films** *APPLIED PHYSICS LETTERS*  
Riddiford, L. J., Wisser, J. J., Emori, S., Li, P., Roy, D., Cogulu, E., van't Erve, O., Deng, Y., Wang, S. X., Jonker, B. T., Kent, A. D., Suzuki, Y.  
2019; 115 (12)
- **Metallicity in SrTiO3 substrates induced by pulsed laser deposition** *APL MATERIALS*  
Balakrishnan, P. P., Veit, M. J., Alaan, U. S., Gray, M. T., Suzuki, Y.  
2019; 7 (1)
- **Ultralow Damping in Nanometer-Thick Epitaxial Spinel Ferrite Thin Films** *NANO LETTERS*  
Emori, S., Yi, D., Crossley, S., Wisser, J. J., Balakrishnan, P. P., Khodadadi, B., Shafer, P., Klewe, C., N'Diaye, A. T., Urwin, B. T., Mahalingam, K., Howe, B. M., Hwang, et al  
2018; 18 (7): 4273–78
- **Coexistence of Low Damping and Strong Magnetoelastic Coupling in Epitaxial Spinel Ferrite Thin Films** *ADVANCED MATERIALS*  
Emori, S., Gray, B. A., Jeon, H., Peoples, J., Schmitt, M., Mahalingam, K., Hill, M., McConney, M. E., Gray, M. T., Alaan, U. S., Bornstein, A. C., Shafer, P., N'Diaye, et al  
2017; 29 (34)
- **Tuning Perpendicular Magnetic Anisotropy by Oxygen Octahedral Rotations in (La\_{1-x}Sr\_xMnO\_3)/(SrIrO\_3) Superlattices.** *Physical review letters*  
Yi, D., Flint, C. L., Balakrishnan, P. P., Mahalingam, K., Urwin, B., Vailionis, A., N'Diaye, A. T., Shafer, P., Arenholz, E., Choi, Y., Stone, K. H., Chu, J. H., Howe, et al  
2017; 119 (7): 077201
- **Spin transport and dynamics in all-oxide perovskite La2/3Sr1/3MnO3/SrRuO3 bilayers probed by ferromagnetic resonance** *PHYSICAL REVIEW B*  
Emori, S., Alaan, U. S., Gray, M. T., Sluka, V., Chen, Y., Kent, A. D., Suzuki, Y.  
2016; 94 (22)
- **Interfacial Symmetry Control of Emergent Ferromagnetism at the Nanoscale.** *Nano letters*  
Grutter, A. J., Vailionis, A., Borchers, J. A., Kirby, B. J., Flint, C. L., He, C., Arenholz, E., Suzuki, Y.  
2016; 16 (9): 5647-5651

- **Controlling disorder-mediated exchange bias in (Mn,Zn,Fe)(3)O-4 thin films** *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*  
Alaan, U. S., Sreenivasulu, G., Yu, K. M., Jenkins, C., Shafer, P., Arenholz, E., Srinivasan, G., Suzuki, Y.  
2016; 405: 129-136
- **Reversible control of magnetism in La<sub>0.67</sub>Sr<sub>0.33</sub>MnO<sub>3</sub> through chemically-induced oxygen migration** *APPLIED PHYSICS LETTERS*  
Grutter, A. J., Gilbert, D. A., Alaan, U. S., Arenholz, E., Maranville, B. B., Borchers, J. A., Suzuki, Y., Liu, K., Kirby, B. J.  
2016; 108 (8)
- **Gd-doped BaSnO<sub>3</sub>: A transparent conducting oxide with localized magnetic moments** *APPLIED PHYSICS LETTERS*  
Alaan, U. S., Shafer, P., N'Diaye, A. T., Arenholz, E., Suzuki, Y.  
2016; 108 (4)
- **Electronic and magnetic phenomena at the interface of LaAlO<sub>3</sub> and Ru doped SrTiO<sub>3</sub>** *APPLIED PHYSICS LETTERS*  
Gray, M. T., SANDERS, T. D., Jenkins, C. A., Shafer, P., Arenholz, E., Suzuki, Y.  
2015; 107 (24)
- **LaAlO<sub>3</sub>/SrTiO<sub>3</sub> interfaces doped with rare-earth ions** *PHYSICAL REVIEW B*  
Sanders, T. D., Gray, M. T., Wong, F. J., Suzuki, Y.  
2015; 91 (20)
- **Magnetotransport in La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>/CuCr<sub>2</sub>O<sub>4</sub>/Fe<sub>3</sub>O<sub>4</sub> magnetic junctions** *APPLIED PHYSICS LETTERS*  
Iwata-Harms, J. M., Chopdekar, R. V., Wong, F. J., Nelson-Cheeseman, B. B., Jenkins, C. A., Arenholz, E., Suzuki, Y.  
2015; 106 (1)
- **Magnetism in CaMnO<sub>3</sub> thin films** *JOURNAL OF APPLIED PHYSICS*  
Flint, C. L., Grutter, A. J., Jenkins, C. A., Arenholz, E., Suzuki, Y.  
2014; 115 (17)
- **Insulating Ferromagnetic LaCoO<sub>3</sub>-delta Films: A Phase Induced by Ordering of Oxygen Vacancies** *PHYSICAL REVIEW LETTERS*  
Biskup, N., Salafranca, J., Mehta, V., Oxley, M. P., Suzuki, Y., Pennycook, S. J., Pantelides, S. T., Varela, M.  
2014; 112 (8)
- **Stabilization of spin-zero Ru<sup>4+</sup> through epitaxial strain in SrRuO<sub>3</sub> thin films** *PHYSICAL REVIEW B*  
Grutter, A. J., Wong, F. J., Jenkins, C. A., Arenholz, E., Vailionis, A., Suzuki, Y.  
2013; 88 (21)
- **Quasi-two-dimensional electron gas behavior in doped LaAlO<sub>3</sub> thin films on SrTiO<sub>3</sub> substrates** *APPLIED PHYSICS LETTERS*  
Gray, M. T., SANDERS, T. D., Wong, F. J., Grutter, A. J., Alaan, U. S., He, C., Jenkins, C. A., Arenholz, E., Suzuki, Y.  
2013; 102 (13)
- **Gigahertz-frequency operation of a LaAlO<sub>3</sub>/SrTiO<sub>3</sub>-based nanotransistor** *APPLIED PHYSICS LETTERS*  
Irvin, P., Huang, M., Wong, F. J., SANDERS, T. D., Suzuki, Y., Levy, J.  
2013; 102 (10)
- **Oxygen Vacancy Ordering: a degree of freedom that can control the structural, electronic, and magnetic properties of transition-metal-oxide films** *Physical Review Letters*  
Biskup, N., Salafranca, J., Mehta, V., Suzuki, Y., Pennycook, S. J., Pantelides, S. T., Varela, M.  
2013
- **Interfacial Ferromagnetism in LaNiO<sub>3</sub>/CaMnO<sub>3</sub>** *Physical Review Letters*  
Grutter, A. J., Kirby, B. J., Fitzsimmons, M. R., Yang, H., Browning, N. D., Jenkins, C. A., Arenholz, E., Mehta, V. V., Alaan, U. S., Suzuki, Y.  
2013; 111: 087202
- **Growth of Doped LaAlO<sub>3</sub> Thin Films for Modified Quasi-Two Dimensional Electron Gases** *Applied Physics Letters*  
Gray, M. T., Sanders, T. D., Wong, F. J., Grutter, A. J., Alaan, U. S., He, C., Arenholz, E., Jenkins, C., Suzuki, Y.  
2013; 102: 131601
- **Magnetism in CaMnO<sub>3</sub> Thin Films** *Journal of Applied Physics*  
Flint, C. L., Grutter, A. J., Jenkins, C. A., Arenholz, E., Suzuki, Y.  
2013

- **Interfacial Ferromagnetism and Exchange Bias in CaRuO<sub>3</sub>/CaMnO<sub>3</sub> Superlattices** *PHYSICAL REVIEW LETTERS*  
He, C., Grutter, A. J., Gu, M., Browning, N. D., Takamura, Y., Kirby, B. J., Borchers, J. A., Kim, J. W., Fitzsimmons, M. R., Zhai, X., Mehta, V. V., Wong, F. J., Suzuki, et al  
2012; 109 (19)
- **Tuning the Performance of Organic Spintronic Devices Using X-Ray Generated Traps** *PHYSICAL REVIEW LETTERS*  
Rybicki, J., Lin, R., Wang, F., Wohlgenannt, M., He, C., Sanders, T., Suzuki, Y.  
2012; 109 (7)
- **Metal-insulator transitions in epitaxial LaVO<sub>3</sub> and LaTiO<sub>3</sub> films** *PHYSICAL REVIEW B*  
He, C., SANDERS, T. D., Gray, M. T., Wong, F. J., Mehta, V. V., Suzuki, Y.  
2012; 86 (8)
- **Controlling spin ordering in frustrated magnets via thin film heteroepitaxy** *PHYSICAL REVIEW B*  
Iwata-Harms, J. M., Wong, F. J., Alaan, U. S., Kirby, B. J., Borchers, J. A., Toney, M. F., Nelson-Cheeseman, B. B., Liberati, M., Arenholz, E., Suzuki, Y.  
2012; 85 (21)
- **Interplay between magnetism and chemical structure at spinel-spinel interfaces** *JOURNAL OF APPLIED PHYSICS*  
Nelson-Cheeseman, B. B., Chopdekar, R. V., Toney, M. F., Arenholz, E., Suzuki, Y.  
2012; 111 (9)
- **Evidence of high-spin Ru and universal magnetic anisotropy in SrRuO<sub>3</sub> thin films** *PHYSICAL REVIEW B*  
Grutter, A. J., Wong, F. J., Arenholz, E., Vailionis, A., Suzuki, Y.  
2012; 85 (13)
- **Structure and magnetism of nanocrystalline and epitaxial (Mn,Zn,Fe)(3)O-4 thin films** *JOURNAL OF APPLIED PHYSICS*  
Alaan, U. S., Wong, F. J., Grutter, A. J., Iwata-Harms, J. M., Mehta, V. V., Arenholz, E., Suzuki, Y.  
2012; 111 (7)
- **Ferrimagnetism un PrCoO<sub>3</sub> Epitaxial Films** *Rapid Communications Physical Review B*  
Mehta, V. V., Bose, S., Iwata-Harms, J., Arenholz, E., Leighton, C., Suzuki, Y.  
2012; 87: 020405
- **Electronic Tuning of La<sub>2</sub>/3Sr<sub>1</sub>/3MnO<sub>3</sub> thin films via epitaxy** *Journal of Applied Physics*  
Wong, F. J., Zhu, S., Iwata-Harms, J. M., Suzuki, Y.  
2012; 111: 063920
- **Controlling Spin Ordering in Canted Magnets via Heteroepitaxy** *Physical Review B*  
Iwata-Harms, J. M., Wong, F. J., Kirby, B. J., Borchers, J. A., Toney, M. F., Nelson-Cheeseman, B. B., Liberati, M., Arenholz, E., Suzuki, Y.  
2012; 85: 214424
- **Structure and magnetism of nanocrystalline and epitaxial (Mn,Zn,Fe)3O<sub>4</sub> thin films** *Journal of Applied Physics*  
Alaan, U. S., Wong, F. J., Grutter, A. J., Iwata-Harms, J. M., Mehta, V. V., Arenholz, E., Suzuki, Y.  
2012; 111: 07A337
- **Electronic Tuning of La<sub>2</sub>/3Sr<sub>1</sub>/3MnO<sub>3</sub> thin films via epitaxy** *Journal of Applied Physics*  
Wong, F. J., Zhu, S., Iwata-Harms, J. M., Suzuki, Y.  
2012; 111: 063920
- **Interplay between Magnetism and Chemical Structure at Spinel-Spinel Interfaces** *Journal of Applied Physics*  
Nelson-Cheeseman, B. B., Chopdekar, R. V., Arenholz, E., Suzuki, Y.  
2012; 111: 093903
- **Role of magnetic anisotropy in spin-filter junctions** *PHYSICAL REVIEW B*  
Chopdekar, R. V., Nelson-Cheeseman, B. B., Liberati, M., Arenholz, E., Suzuki, Y.  
2011; 83 (22)
- **Interfacial magnetism in CaRuO<sub>3</sub>/CaMnO<sub>3</sub> superlattices grown on (001) SrTiO<sub>3</sub>** *JOURNAL OF APPLIED PHYSICS*  
He, C., Zhai, X., Mehta, V. V., Wong, F. J., Suzuki, Y.  
2011; 109 (7)

- **Organic spin-valves based on fullerene C-60** *3rd International Meeting on Spins in Organic Semiconductors (SPINOS III)*  
Lin, R., Wang, F., Wohlgenannt, M., He, C., Zhai, X., Suzuki, Y.  
ELSEVIER SCIENCE SA.2011: 553–57
- **Magnetic domain structure of La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> nanoislands: Experiment and simulation** *JOURNAL OF APPLIED PHYSICS*  
Kim, E. J., Watts, J. L., Harteneck, B., Scholl, A., Young, A., Doran, A., Suzuki, Y.  
2011; 109 (7)
- **Ferromagnetism enhanced by structural relaxation of biaxially compressed LaCoO<sub>3</sub> films** *JOURNAL OF APPLIED PHYSICS*  
Mehta, V., Suzuki, Y.  
2011; 109 (7)
- **Magnetic Domain Structures of La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> Nanoislands: Experiment and Simulation** *Journal of Applied Physics*  
Kim, E. J., Watts, J. L., Harteneck, B., Scholl, A., Young, A., Doran, A., Suzuki, Y.  
2011; 109: 07D712
- **Organic Spin Valves Based on C<sub>60</sub>** *Synthetic Metals*  
Lin, R., Wang, F. J., Wohlgenannt, M., He, C. Y., Zhai, X. F., Suzuki, Y.  
2011; 161: 553
- **Modified magnetic ground state in NiMn<sub>2</sub>O<sub>4</sub> thin films** *PHYSICAL REVIEW B*  
Nelson-Cheeseman, B. B., Chopdekar, R. V., Iwata, J. M., Toney, M. F., Arenholz, E., Suzuki, Y.  
2010; 82 (14)
- **Disorder and localization at the LaAlO<sub>3</sub>/SrTiO<sub>3</sub> heterointerface** *PHYSICAL REVIEW B*  
Wong, F. J., Chopdekar, R. V., Suzuki, Y.  
2010; 82 (16)
- **Magnetism at spinel thin film interfaces probed through soft X-ray spectroscopy techniques** *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*  
Chopdekar, R. V., Liberati, M., Takamura, Y., Kourkoutis, L. F., Bettinger, J. S., Nelson-Cheeseman, B. B., Arenholz, E., Doran, A., Scholl, A., Muller, D. A., Suzuki, Y.  
2010; 322 (19): 2915-2921
- **Strain-Induced Changes in the Electronic Structure of MnCr<sub>2</sub>O<sub>4</sub> Thin Films Probed by X-Ray Magnetic Circular Dichroism** *PHYSICAL REVIEW LETTERS*  
Van der Laan, G., Chopdekar, R. V., Suzuki, Y., Arenholz, E.  
2010; 105 (6)
- **Room temperature magnetic barrier layers in magnetic tunnel junctions** *PHYSICAL REVIEW B*  
Nelson-Cheeseman, B. B., Wong, F. J., Chopdekar, R. V., Arenholz, E., Suzuki, Y.  
2010; 81 (21)
- **Enhanced magnetization in epitaxial SrRuO<sub>3</sub> thin films via substrate-induced strain** *11th Joint MMM-Intermag Conference*  
Grutter, A., Wong, F., Arenholz, E., Liberati, M., Suzuki, Y.  
AMER INST PHYSICS.2010
- **Enhanced magnetism in epitaxial SrRuO<sub>3</sub> thin films** *APPLIED PHYSICS LETTERS*  
Grutter, A., Wong, F., Arenholz, E., Liberati, M., Vailionis, A., Suzuki, Y.  
2010; 96 (8)
- **Metallicity in LaTiO<sub>3</sub> thin films induced by tetragonal lattice deformation** *Rapid Communications Physical Review B*  
Wong, F. J., Baek, S., Chopdekar, R. V., Mehta, V. V., Jang, H. W., Eom, C. B., Suzuki, Y.  
2010; 81: 161101
- **Tuning the Magnetic Domain Structure of Spin-polarized Complex Oxide Nanostructures** *Functional Oxide Nanostructures and Heterostructures, Mater. Res. Soc. Symp. Proc.*  
Bettinger, J. S., Chopdekar, R. V., Mesler, B. L., Chain, D., Doran, A., Anderson, E., Scholl, A., Suzuki, Y.  
2010: 1256E
- **Competing magnetic anisotropies in an antiferromagnet-ferromagnet-antiferromagnet trilayer** *JOURNAL OF APPLIED PHYSICS*

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- Bali, R., Nelson-Cheeseman, B. B., Scholl, A., Arenholz, E., Suzuki, Y., Blamire, M. G.  
2009; 106 (11)
- **Growth and characterization of superconducting spinel oxide LiTi<sub>2</sub>O<sub>4</sub> thin films** *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*  
Chopdekar, R. V., Wong, F. J., Takamura, Y., Arenholz, E., Suzuki, Y.  
2009; 469 (21): 1885-1891
  - **Room-temperature photomagnetism in the spinel ferrite (Mn, Zn, Fe)<sub>3</sub>O<sub>4</sub> as seen via soft x-ray magnetic circular dichroism** *PHYSICAL REVIEW B*  
Bettinger, J. S., Piamonteze, C., Chopdekar, R. V., Liberati, M., Arenholz, E., Suzuki, Y.  
2009; 80 (14)
  - **Epitaxial growth and characterization of CaVO<sub>3</sub> thin films** *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*  
Liberati, M., Chopdekar, R. V., Mehta, V., Arenholz, E., Suzuki, Y.  
2009; 321 (18): 2852-2854
  - **Ferromagnetism in tetragonally distorted LaCoO<sub>3</sub> thin films** *53rd Annual Conference on Magnetism and Magnetic Materials*  
Mehta, V. V., Liberati, M., Wong, F. J., Chopdekar, R. V., Arenholz, E., Suzuki, Y.  
AMER INST PHYSICS.2009
  - **Enhanced magnetization of CuCr<sub>2</sub>O<sub>4</sub> thin films by substrate-induced strain** *53rd Annual Conference on Magnetism and Magnetic Materials*  
Iwata, J. M., Chopdekar, R. V., Wong, F. J., Nelson-Cheeseman, B. B., Arenholz, E., Suzuki, Y.  
AMER INST PHYSICS.2009
  - **Orientation and thickness dependence of magnetization at the interfaces of highly spin-polarized manganite thin films** *PHYSICAL REVIEW B*  
Chopdekar, R. V., Arenholz, E., Suzuki, Y.  
2009; 79 (10)
  - **Room temperature photoinduced magnetization of manganese zinc ferrite** *APPLIED PHYSICS LETTERS*  
Bettinger, J. S., Chopdekar, R. V., Suzuki, Y.  
2009; 94 (7)
  - **Magnetism and Transport of Superconducting Spinel Oxide LiTi<sub>2</sub>O<sub>4</sub> Epitaxial Thin Films** *Physica C*  
Chopdekar, R. V., Arenholz, E., Suzuki, Y.  
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