Stanford

Yuri Suzuki

Stanley G. Wojcicki Professor, Professor of Applied Physics, and by courtesy, of Materials Science and Engineering

Bio

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, nano@stanford Shared Facilities, (2025- present)
- Director, Stanford Nano Shared Facilities, (2021-2025)

HONORS AND AWARDS

- Fellow, Materials Research Society (2023)
- Fellow, American Association for the Advancement of Science (2023)
- 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, American Association for the Advancement of Science
- 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, Physics and Chemistry of Semiconductor Interfaces (2018 - 2018)
- Member, Program Committee, 23rd International Colloquium on Magnetic Films and Surfaces (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 ad 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, 2006 Maria Goeppert-Mayer Award Selection Committee (American Physical Society) (2006 - 2006)
- Member, Program Committee, Intermag 2006 (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

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

COURSES

2025-26

- Quantum Materials: APPPHYS 204 (Win)

2024-25

- Quantum Materials: APPPHYS 204 (Win)

2023-24

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

2022-23

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

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Kevin Crust, Daniel Custer, Aarushi Khandelwal, Ruohan Wang

Postdoctoral Faculty Sponsor

Octave Duros, Xian Yang

Doctoral Dissertation Advisor (AC)

Sauviz Alaei, Anna Janni, Yiming Li, Katya Mikhailova, Daisy O'Mahoney, Lerato Takana

Publications

PUBLICATIONS

- **Direct Observation of Tunable Magnons in Epitaxial Lithium Aluminum Ferrite Thin Films.** *Nano letters*
  Tong, J., Paudyal, H., Liu, X., Takana, L., Mikhailova, K., Suzuki, Y., Paudyal, D., Li, X.
  2026

- **Effective control and probe of Néel order in polycrystalline NiO films: a combined approach to study antiferromagnets.** *Scientific reports*
  Hsu, C. C., Lin, Y. C., Cheng, I. Y., Mai, S. C., Qu, D., Grutter, A. J., Kane, M., Suzuki, Y., Lin, Y. L., Yang, C. Y.
  2026

- **Efficient spin transport across a disordered interface in a low damping magnetic insulator/heavy metal bilayer** *APPLIED PHYSICS LETTERS*
  Alaei, S. P., Raj, R., Channa, S., Takana, L., O'mahoney, D., Zheng, X. Y., Fleck, E. E., Chen, T., Galazka, Z., Kent, A. D., Mkhoyan, K. A., Suzuki, Y.
  2025; 127 (26)

- **Signatures of Fluctuation-Driven Magnetic Topological Charge in Pt-Ferromagnetic Insulator Bilayers.** *Physical review letters*
  Channa, S., Sabri, H., Zheng, X. Y., Chen, T. Y., Ren, H., Wu, Q., Wang, K., Li, Y., Galazka, Z., Fisher, I. R., Hong, X., Kent, A. D., Zang, et al
  2025; 135 (9): 096702

- **Signatures of Fluctuation-Driven Magnetic Topological Charge in Pt-Ferromagnetic Insulator Bilayers** *PHYSICAL REVIEW LETTERS*
  Channa, S., Sabri, H., Zheng, X., Chen, T., Ren, H., Wu, Q., Wang, K., Li, Y., Galazka, Z., Fisher, I. R., Hong, X., Kent, A. D., Zang, et al
  2025; 135 (9)

- **Low damping (111) oriented lithium aluminum ferrite thin films for spin wave applications** *APPLIED PHYSICS LETTERS*
  Takana, L., Channa, S., Zheng, X., O'Mahoney, D., Alaei, S., Li, Y., Vailionis, A., Shafer, P., N'Diaye, A. T., Klewe, C., Fisher, I., Suzuki, Y.
  2025; 127 (3)

- **Electrical Detection of Spin-Hall-Induced Auto-oscillations in Lithium Aluminate Ferrite Thin Films.** *Nano letters*
  Ren, H., Lai, Y. A., Channa, S., O'Mahoney, D. A., Zheng, X. Y., Suzuki, Y., Kent, A. D.
  2025

- **Deviation from Debye-Waller behavior in single crystalline freestanding NiO membranes studied via ultrafast electron diffraction** *PHYSICAL REVIEW APPLIED*
  Wisser, J. J., Reid, A., Harbola, V., Luo, D., Shen, X., Kramer, P. L., Lindgren, E. R., Xia, C., Hoffmann, M. C., Lindenberg, A. M., Hwang, H., Suzuki, Y.
  2025; 23 (3)

- **Nature of electronic conduction in LaTiO3/SrTiO3 heterostructures** *PHYSICAL REVIEW MATERIALS*
  Zheng, X., Veit, M. J., Suzuki, Y.
  2025; 9 (1)

- **Surface conduction and reduced electrical resistivity in ultrathin noncrystalline NbP semimetal.** *Science (New York, N.Y.)*
  Khan, A. I., Ramdas, A., Lindgren, E., Kim, H. M., Won, B., Wu, X., Saraswat, K., Chen, C. T., Suzuki, Y., da Jornada, F. H., Oh, I. K., Pop, E.
  2025; 387 (6729): 62-67

- **Thickness-dependent transport in epitaxial CaIrO₃ perovskite thin films** *MRS COMMUNICATIONS*
  Lindgren, E. R., Zheng, X. Y., Channa, S., Jiang, J. M., Lee, Y. S., Suzuki, Y.
  2024

- **Evidence of antiferromagnetism in ultrathin metallic (111)-oriented LaNiO3 films** *PHYSICAL REVIEW MATERIALS*
  Kane, M., Balakrishnan, P. P., Koeksal, O., Holtz, M., Suter, A., Fitzsimmons, M. R., Yang, C., Klewe, C., Quarterman, P., Charlton, T. R., Herzing, A. A., Salman, Z., Prokscha, et al
  2024; 8 (12)

- **Probing the Thermal and Electrical Properties of Ultrawide Bandgap Nitrogen-Polar AlGaN Heterostructures** *ADVANCED FUNCTIONAL MATERIALS*
  Noshin, M., Kwon, H., Khan, A., Alaei, S. P., Meng, C., Asheghi, M., Suzuki, Y., Salahuddin, S., Goodson, K., Chowdhury, S.
  2024

- **The role of magnetic anisotropy in the magnetoresistance of Cr₂O₃/Al₂O₃ thin film antiferromagnets** *AIP ADVANCES*
  Wisser, J. J., Xue, F., Wang, S. X., Suzuki, Y.
  2024; 14 (3)
- **Emergent Ferromagnetism in CaRuO3/CaMnO3(111)-Oriented Superlattices.** *Nano letters*
  Kane, M., Bhandari, C., Holtz, M. E., Balakrishnan, P. P., Grutter, A. J., Fitzsimmons, M., Yang, C., Satpathy, S., Paudyal, D., Suzuki, Y.
  2024
- **Enhanced Ferromagnetism in Atomically Thin Oxides Achieved by Interfacial Reconstruction** *ADVANCED FUNCTIONAL MATERIALS*
  Yi, D., Tang, A., Kane, M. M., Xu, L., Liu, J., Cheng, Z., Klewe, C., N'Diaye, A. T., Shafer, P., Yu, P., Yu, R., Xu, H., Lin, et al
  2024
- **Author Correction: Ultra-thin lithium aluminate spinel ferrite films with perpendicular magnetic anisotropy and low damping.** *Nature communications*
  Zheng, X. Y., Channa, S., Riddiford, L. J., Wisser, J. J., Mahalingam, K., Bowers, C. T., McConney, M. E., N'Diaye, A. T., Vailionis, A., Cogulu, E., Ren, H., Galazka, Z., Kent, et al
  2024; 15 (1): 534
- **Aluminum substitution in low damping epitaxial lithium ferrite films** *APPLIED PHYSICS LETTERS*
  O'Mahoney, D., Channa, S., Zheng, X., Vailionis, A., Shafer, P., N'Diaye, A. T., Klewe, C., Suzuki, Y.
  2023; 123 (17)
- **Synthesis of multifunctional amorphous metallic shell on crystalline metallic nanoparticles.** *RSC advances*
  Parakh, A., Kiani, M. T., Lindgren, E., Colmenares, A., Lee, A. C., Suzuki, Y., Gu, X. W.
  2023; 13 (43): 30491-30498
- **Ultra-thin lithium aluminate spinel ferrite films with perpendicular magnetic anisotropy and low damping.** *Nature communications*
  Zheng, X. Y., Channa, S., Riddiford, L. J., Wisser, J. J., Mahalingam, K., Bowers, C. T., McConney, M. E., N'Diaye, A. T., Vailionis, A., Cogulu, E., Ren, H., Galazka, Z., Kent, et al
  2023; 14 (1): 4918
- **A puzzling insensitivity of magnon spin diffusion to the presence of 180-degree domain walls.** *Nature communications*
  Li, R., Riddiford, L. J., Chai, Y., Dai, M., Zhong, H., Li, B., Li, P., Yi, D., Zhang, Y., Broadway, D. A., Dubois, A. E., Maletinsky, P., Hu, et al
  2023; 14 (1): 2393
- **Hybrid spin Hall nano-oscillators based on ferromagnetic metal/ferrimagnetic insulator heterostructures.** *Nature communications*
  Ren, H., Zheng, X. Y., Channa, S., Wu, G., O'Mahoney, D. A., Suzuki, Y., Kent, A. D.
  2023; 14 (1): 1406
- **Large Spin-Orbit-Torque Efficiency and Room-Temperature Magnetization Switching in SrIrO3/Co-Fe-B Heterostructures** *PHYSICAL REVIEW APPLIED*
  Li, P., Channa, S., Li, X., Alahmed, L., Tang, C., Yi, D., Riddiford, L., Wisser, J., Balakrishnan, P. P., Zheng, X., Lu, D., Vailionis, A., Wang, et al
  2023; 23 (2)
- **Understanding Signatures of Emergent Magnetism in Topological Insulator/Ferrite Bilayers.** *Physical review letters*
  Riddiford, L. J., Grutter, A. J., Pillsbury, T., Stanley, M., Reifsnyder Hickey, D., Li, P., Alem, N., Samarth, N., Suzuki, Y.
  2022; 128 (12): 126802
- **Anisotropic Magnon Spin Transport in Ultrathin Spinel Ferrite Thin Films—Evidence for Anisotropy in Exchange Stiffness.** *Nano letters*
  Li, R., Li, P., Yi, D., Riddiford, L. J., Chai, Y., Suzuki, Y., Ralph, D. C., Nan, T.
  1800
- **Ferromagnetic resonances in single-crystal yttrium iron garnet nanofilms fabricated by metal-organic decomposition** *APPLIED PHYSICS LETTERS*
  Wang, S., Chorazewicz, K., Lamichhane, S., Parrott, R. A., Cabrini, S., Fischer, P., Kent, N., Turner, J. H., Ishibashi, T., Frohock, Z., Wisser, J. J., Li, P., Zielinski, et al
  2021; 119 (17)
- **Emergent long-range magnetic order in ultrathin (111)-oriented LaNiO3 films** *NPJ QUANTUM MATERIALS*
  Kane, M. M., Vailionis, A., Riddiford, L. J., Mehta, A., N'Diaye, A. T., Klewe, C., Shafer, P., Arenholz, E., Suzuki, Y.

2021; 6 (1)

- **Large and robust charge-to-spin conversion in sputtered conductive WTex with disorder** *MATTER*
  Li, X., Li, P., Hou, V., Mahendra, D. C., Nien, C., Xue, F., Yi, D., Bi, C., Lee, C., Lin, S., Tsai, W., Suzuki, Y., Wang, et al
  2021; 4 (5): 1639-1653
- **Enhanced Interface-Driven Perpendicular Magnetic Anisotropy by Symmetry Control in Oxide Superlattices** *PHYSICAL REVIEW APPLIED*
  Yi, D., Amari, H., Balakrishnan, P. P., Klewe, C., N'Diaye, A. T., Shafer, P., Browning, N., Suzuki, Y.
  2021; 15 (2)
- **Magnetic anisotropy and spin scattering in (La2/3Sr1/3)MnO3/CaRuO3 bilayers**
  Balakrishnan, P. P., Lindgren, E., Kane, M., Wisser, J. J., Suzuki, Y.
  AMER INST PHYSICS.2021
- **Growth and characterization of La0.67Sr0.33MnO3/YBa2Cu3O7-delta bilayers** *AIP ADVANCES*
  Wisser, J. J., Suzuki, Y.
  2021; 11 (1)
- **Ultra-low magnetic damping in epitaxial Li0.5Fe2.5O4 thin films** *APPLIED PHYSICS LETTERS*
  Zheng, X., Riddiford, L. J., Wisser, J. J., Emori, S., Suzuki, Y.
  2020; 117 (9)
- **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., NDiaye, 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 't 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_{x}MnO_{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 La0.67Sr0.33MnO3 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 BaSnO3: 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 LaAlO3 and Ru doped SrTiO3** *APPLIED PHYSICS LETTERS*
  Gray, M. T., SANDERS, T. D., Jenkins, C. A., Shafer, P., Arenholz, E., Suzuki, Y.
  2015; 107 (24)

- **LaAlO3/SrTiO3 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 La0.7Sr0.3MnO3/CuCr2O4/Fe3O4 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 CaMnO3 thin films** *JOURNAL OF APPLIED PHYSICS*
  Flint, C. L., Grutter, A. J., Jenkins, C. A., Arenholz, E., Suzuki, Y.
  2014; 115 (17)

- **Insulating Ferromagnetic LaCoO3-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 Ru4+ through epitaxial strain in SrRuO3 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 LaAlO3 thin films on SrTiO3 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 LaAlO3/SrTiO3-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 LaNiO3/CaMnO3** *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 LaAlO3 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 CaMnO3 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 CaRuO3/CaMnO3 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 LaVO3 and LaTiO3 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*
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