



Thomas Devereaux

Professor of Photon Science, of Materials Science and Engineering and Senior Fellow at the Precourt Institute for Energy

Photon Science Directorate

Bio

BIO

Professor Devereaux received his Ph.D. in Physics from the University of Oregon in 1991, M.S. from University of Oregon in 1988, and B.S from New York University in 1986.

Professor Devereaux is a professor in Materials Science & Engineering and Photon Science at SLAC National Accelerator Laboratory and Stanford University, and a Senior Fellow of the Precourt Institute for Energy. He was formerly the Director of the Stanford Institute for Materials and Energy Sciences (SIMES) from 2011-2020.

Professor Devereaux was a Post-doctoral Fellow at the Max Planck Institut, Stuttgart, (1991-1993), a Post-doctoral Fellow at the University of California, Davis, CA, (1993-1996), an Assistant Professor at The George Washington University, Washington, DC, (1996-1999), and an Associate Professor (1999-2006) and Professor (2006-2007) at the University of Waterloo, Waterloo, ON, Canada

His main research interests lie in the areas of theoretical condensed matter physics and computational physics. His research effort focuses on using the tools of computational physics to understand quantum materials. The goal of his research is to understand equilibrium and ultrafast non-equilibrium electron dynamics via a combination of analytical theory and numerical simulations to provide insight into materials of relevance to energy science. His group carries out numerical simulations on SIMES' high-performance compute cluster, the National Energy Research Scientific Computing Center (NERSC), and other US computational facilities. The specific focus of the group is the development of numerical methods and theories of photon-based spectroscopies of strongly correlated quantum materials and novel materials for energy storage.

ACADEMIC APPOINTMENTS

- Professor, Photon Science Directorate
- Senior Fellow, Precourt Institute for Energy
- Professor, Materials Science and Engineering
- Principal Investigator, Stanford Institute for Materials and Energy Sciences

HONORS AND AWARDS

- Fellowship, U. S. Department of Education (1989-1991)
- Junior Scholar Incentive Award, George Washington University (1998)
- Research Fellowship, Alexander von Humboldt Foundation (2002-2006)
- Premier's Research Excellence Award, Province of Ontario (2003)

- Scientist Research Fellowship, Embassy of France (2005 & 2006)
- Fellow, American Physical Society (2008)

PROFESSIONAL EDUCATION

- Ph.D., University of Oregon , Physics (1991)
- M.S., University of Oregon , Physics (1988)
- B.S., New York University , Mathematics & Physics (1986)

LINKS

- Devereaux Group: <https://web.stanford.edu/group/photontheory/>
- Stanford Institute for Materials and Energy Sciences: <http://simes.stanford.edu/>
- SLAC National Accelerator Laboratory: <https://www6.slac.stanford.edu/>
- Precourt Institute for Energy: <https://energy.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My main research interests lie in the areas of theoretical condensed matter physics and computational physics. My research effort focuses on using the tools of computational physics to understand quantum materials. Fortunately, we are poised in an excellent position as the speed and cost of computers have allowed us to tackle heretofore unaddressed problems involving interacting systems. The goal of my research is to understand electron dynamics via a combination of analytical theory and numerical simulations to provide insight into materials of relevance to energy science. My group carries out numerical simulations on SIMES' high-performance supercomputer and US and Canadian computational facilities. The specific focus of my group is the development of numerical methods and theories of photon-based spectroscopies of strongly correlated materials.

Teaching

COURSES

2023-24

- Quantum Mechanics for Materials Science: MATSCI 185 (Win)
- Quantum Mechanics for Materials Science: MATSCI 215 (Win)

2022-23

- Condensed Matter Seminar: APPPHYS 470 (Aut, Win, Spr)
- Quantum Mechanics for Materials Science: MATSCI 185 (Win)
- Quantum Mechanics for Materials Science: MATSCI 215 (Win)
- Statistical Mechanics for Materials & Materials Chemistry: MATSCI 310 (Spr)

2021-22

- Condensed Matter Seminar: APPPHYS 470 (Aut, Win, Spr)
- Quantum Mechanics for Materials Science: MATSCI 185 (Win)
- Quantum Mechanics for Materials Science: MATSCI 215 (Win)

2020-21

- Nanoscale Materials Physics Computation Laboratory: MATSCI 165, MATSCI 175 (Win)
- Statistical Mechanics for Materials & Materials Chemistry: MATSCI 310 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Zhaoyu Han, Jay Qu, Hari Ramachandran, Kejun Xu

Orals Chair

Pavel Nosov

Postdoctoral Faculty Sponsor

Luhang Yang, Zoe Zhu

Doctoral Dissertation Advisor (AC)

Emma Cuddy, Katherine Ding, Sean Hsu, Malhar Kute, Fangze Liu, Eder Lomeli, Wen Wang, Rong Zhang, Sijia Zhao

Doctoral Dissertation Advisor (NonAC)

Martin Gonzalez

Doctoral Dissertation Co-Advisor (AC)

Vladimir Calvera

Master's Program Advisor

Luka Radosavljevic

Postdoctoral Research Mentor

Daniel Jost

Doctoral (Program)

Ariana Tse

Publications

PUBLICATIONS

- **Anharmonic strong-coupling effects at the origin of the charge density wave in CsV₃Sb₅.** *Nature communications*
He, G., Peis, L., Cuddy, E. F., Zhao, Z., Li, D., Zhang, Y., Stumberger, R., Moritz, B., Yang, H., Gao, H., Devereaux, T. P., Hackl, R.
2024; 15 (1): 1895
- **Collective Nature of Orbital Excitations in Layered Cuprates in the Absence of Apical Oxygens.** *Physical review letters*
Martinelli, L., Wohlfeld, K., Pellicciari, J., Arpaia, R., Brookes, N. B., Di Castro, D., Fernandez, M. G., Kang, M., Krockenberger, Y., Kummer, K., McNally, D. E., Paris, E., Schmitt, et al
2024; 132 (6): 066004
- **Charge order and superconductivity in a two-band model for infinite-layer nickelates** *PHYSICAL REVIEW B*
Peng, C., Jiang, H., Moritz, B., Devereaux, T. P., Jia, C.
2023; 108 (24)
- **The Wiedemann-Franz law in doped Mott insulators without quasiparticles.** *Science (New York, N.Y.)*
Wang, W. O., Ding, J. K., Schattner, Y., Huang, E. W., Moritz, B., Devereaux, T. P.
2023; 382 (6674): 1070-1073
- **Proximate spin liquid and fractionalization in the triangular antiferromagnet KYbSe₂** *NATURE PHYSICS*
Scheie, A. O., Ghioldi, E. A., Xing, J., Paddison, J. M., Sherman, N. E., Dupont, M., Sanjeeva, L. D., Lee, S., Woods, A. J., Abernathy, D., Pajerowski, D. M., Williams, T. J., Zhang, et al
2023
- **Quantitative assessment of the universal thermopower in the Hubbard model.** *Nature communications*

- Wang, W. O., Ding, J. K., Huang, E. W., Moritz, B., Devereaux, T. P.
2023; 14 (1): 7064
- **Angle-resolved pair photoemission theory for correlated electrons** *PHYSICAL REVIEW B*
Devereaux, T. P., Claassen, M., Huang, X., Zaletel, M., Moore, J. E., Morr, D., Mahmood, F., Abbamonte, P., Shen, Z.
2023; 108 (6)
 - **Bogoliubov quasiparticle on the gossamer Fermi surface in electron-doped cuprates** *NATURE PHYSICS*
Xu, K., Guo, Q., Hashimoto, M., Li, Z., Chen, S., He, J., He, Y., Li, C., Berntsen, M. H., Rotundu, C. R., Lee, Y. S., Devereaux, T. P., Rydh, et al
2023
 - **Ingredients of strong interactions in cuprates** *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*
Shen, Z., Devereaux, T.
2023; 613
 - **From Stoner to local moment magnetism in atomically thin Cr₂Te₃** *Nature communications*
Zhong, Y., Peng, C., Huang, H., Guan, D., Hwang, J., Hsu, K. H., Hu, Y., Jia, C., Moritz, B., Lu, D., Lee, J. S., Jia, J. F., Devereaux, et al
2023; 14 (1): 5340
 - **Publisher Correction: Geometric frustration of Jahn-Teller order in the infinite-layer lattice.** *Nature*
Kim, W. J., Smeaton, M. A., Jia, C., Goodge, B. H., Cho, B. G., Lee, K., Osada, M., Jost, D., Ievlev, A. V., Moritz, B., Kourkoutis, L. F., Devereaux, T. P., Hwang, et al
2023
 - **Traces of electron-phonon coupling in one-dimensional cuprates.** *Nature communications*
Tang, T., Moritz, B., Peng, C., Shen, Z. X., Devereaux, T. P.
2023; 14 (1): 3129
 - **Effects of rare-earth magnetism on the superconducting upper critical field in infinite-layer nickelates.** *Science advances*
Wang, B. Y., Wang, T. C., Hsu, Y. T., Osada, M., Lee, K., Jia, C., Duffy, C., Li, D., Fowlie, J., Beasley, M. R., Devereaux, T. P., Fisher, I. R., Hussey, et al
2023; 9 (20): eadf6655
 - **Enhanced superconductivity by near-neighbor attraction in the doped extended Hubbard model** *PHYSICAL REVIEW B*
Peng, C., Wang, Y., Wen, J., Lee, Y. S., Devereaux, T. P., Jiang, H.
2023; 107 (20)
 - **Reversal of spin-polarization near the Fermi level of the Rashba semiconductor BiTeCl** *NPJ QUANTUM MATERIALS*
Qu, J., Han, X., Sakamoto, S., Jia, C. J., Liu, J., Li, H., Guan, D., Zeng, Y., Schuler, M., Kirchmann, P. S., Moritz, B., Hussain, Z., Devereaux, et al
2023; 8 (1)
 - **Signatures of the exciton gas phase and its condensation in monolayer 1T-ZrTe₂** *Nature communications*
Song, Y., Jia, C., Xiong, H., Wang, B., Jiang, Z., Huang, K., Hwang, J., Li, Z., Hwang, C., Liu, Z., Shen, D., Sobota, J. A., Kirchmann, et al
2023; 14 (1): 1116
 - **Geometric frustration of Jahn-Teller order in the infinite-layer lattice.** *Nature*
Kim, W. J., Smeaton, M. A., Jia, C., Goodge, B. H., Cho, B., Lee, K., Osada, M., Jost, D., Ievlev, A. V., Moritz, B., Kourkoutis, L. F., Devereaux, T. P., Hwang, et al
2023
 - **Fluctuating intertwined stripes in the strange metal regime of the Hubbard model** *PHYSICAL REVIEW B*
Huang, E. W., Liu, T., Wang, W. O., Jiang, H., Mai, P., Maier, T. A., Johnston, S., Moritz, B., Devereaux, T. P.
2023; 107 (8)
 - **Identification of a characteristic doping for charge order phenomena in Bi-2212 cuprates via RIXS** *PHYSICAL REVIEW B*
Lu, H., Hashimoto, M., Chen, S., Ishida, S., Song, D., Eisaki, H., Nag, A., Garcia-Fernandez, M., Arpaia, R., Ghiringhelli, G., Braicovich, L., Zaanen, J., Moritz, et al
2022; 106 (15)
 - **Spectra of a gapped quantum spin liquid with a strong chiral excitation on the triangular lattice** *PHYSICAL REVIEW B*
Tang, T., Moritz, B., Devereaux, T. P.
2022; 106 (6)

- **Thermodynamics of correlated electrons in a magnetic field** *COMMUNICATIONS PHYSICS*
Ding, J. K., Wang, W. O., Moritz, B., Schattner, Y., Huang, E. W., Devereaux, T. P.
2022; 5 (1)
- **A broken translational symmetry state in an infinite-layer nickelate** *NATURE PHYSICS*
Rossi, M., Osada, M., Choi, J., Agrestini, S., Jost, D., Lee, Y., Lu, H., Wang, B., Lee, K., Nag, A., Chuang, Y., Kuo, C., Lee, et al
2022
- **Electronic structure of superconducting nickelates probed by resonant photoemission spectroscopy** *MATTER*
Chen, Z., Osada, M., Li, D., Been, E. M., Chen, S., Hashimoto, M., Lu, D., Mo, S., Lee, K., Wang, B., Rodolakis, F., McChesney, J. L., Jia, et al
2022; 5 (6)
- **Self-energy dynamics and the mode-specific phonon threshold effect in Kekule-ordered graphene.** *National science review*
Zhang, H., Bao, C., Schuler, M., Zhou, S., Li, Q., Luo, L., Yao, W., Wang, Z., Devereaux, T. P., Zhou, S.
2022; 9 (5): nwab175
- **Momentum-resolved resonant inelastic soft X-ray scattering (qRIXS) endstation at the ALS** *JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA*
Chuang, Y., Feng, X., Cruz, A., Hanzel, K., Brown, A., Spucces, A., Frano, A., Lee, W., Kim, J., Chen, Y., Smith, B., Pepper, J. S., Shao, et al
2022; 257
- **Magnon heat transport in a two-dimensional Mott insulator** *PHYSICAL REVIEW B*
Wang, W. O., Ding, J. K., Moritz, B., Huang, E. W., Devereaux, T. P.
2022; 105 (16)
- **Sign-free determinant quantum Monte Carlo study of excitonic density orders in a two-orbital Hubbard-Kanamori model** *PHYSICAL REVIEW B*
Huang, X., Moritz, B., Claassen, M., Devereaux, T. P.
2022; 105 (16)
- **Anisotropy of the magnetic and transport properties of EuZn2As2** *PHYSICAL REVIEW B*
Wang, Z., Been, E., Gaudet, J., Alqasseri, G. A., Fruhling, K., Yao, X., Stuhr, U., Zhu, Q., Ren, Z., Cui, Y., Jia, C., Moritz, B., Chowdhury, et al
2022; 105 (16)
- **On the Nature of Valence Charge and Spin Excitations via Multi-Orbital Hubbard Models for Infinite-Layer Nickelates** *FRONTIERS IN PHYSICS*
Been, E. M., Hsu, K. H., Hu, Y., Moritz, B., Cui, Y., Jia, C., Devereaux, T. P.
2022; 10
- **Distinguishing finite-momentum superconducting pairing states with two-electron photoemission spectroscopy** *PHYSICAL REVIEW B*
Mahmood, F., Devereaux, T., Abbamonte, P., Morr, D. K.
2022; 105 (6)
- **Polarization-Modulated Angle-Resolved Photoemission Spectroscopy: Toward Circular Dichroism without Circular Photons and Bloch Wave-function Reconstruction** *PHYSICAL REVIEW X*
Schueler, M., Pincelli, T., Dong, S., Devereaux, T. P., Wolf, M., Rettig, L., Ernstorfer, R., Beaulieu, S.
2022; 12 (1)
- **Unconventional spectral signature of Tc in a pure d-wave superconductor.** *Nature*
Chen, S., Hashimoto, M., He, Y., Song, D., He, J., Li, Y., Ishida, S., Eisaki, H., Zaanen, J., Devereaux, T. P., Lee, D., Lu, D., Shen, et al
1800; 601 (7894): 562-567
- **Web-based methods for X-ray and photoelectron spectroscopies** *COMPUTATIONAL MATERIALS SCIENCE*
Devereaux, T. P., Moritz, B., Jia, C., Kas, J. J., Rehr, J. J.
2021; 200
- **Orbitally selective resonant photodoping to enhance superconductivity** *PHYSICAL REVIEW B*
Tang, T., Wang, Y., Moritz, B., Devereaux, T. P.
2021; 104 (17)
- **Intertwined States at Finite Temperatures in the Hubbard Model** *JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN*
Huang, E. W., Wang, W. O., Ding, J. K., Liu, T., Liu, F., Huang, X., Moritz, B., Devereaux, T. P.

2021; 90 (11)

- **Phonon-Mediated Long-Range Attractive Interaction in One-Dimensional Cuprates** *PHYSICAL REVIEW LETTERS*
Wang, Y., Chen, Z., Shi, T., Moritz, B., Shen, Z., Devereaux, T. P.
2021; 127 (19): 197003
- **Superconducting Fluctuations in Overdoped BiSr₂CaCu₂O_{8+δ}** *PHYSICAL REVIEW X*
He, Y., Chen, S., Li, Z., Zhao, D., Song, D., Yoshida, Y., Eisaki, H., Wu, T., Chen, X., Lu, D., Meingast, C., Devereaux, T. P., Birgeneau, et al
2021; 11 (3)
- **X-ray scattering from light-driven spin fluctuations in a doped Mott insulator** *COMMUNICATIONS PHYSICS*
Wang, Y., Chen, Y., Devereaux, T. P., Moritz, B., Mitrano, M.
2021; 4 (1)
- **Numerical approaches for calculating the low-field dc Hall coefficient of the doped Hubbard model** *PHYSICAL REVIEW RESEARCH*
Wang, W. O., Ding, J. K., Moritz, B., Schattner, Y., Huang, E. W., Devereaux, T. P.
2021; 3 (3)
- **Precursor of pair-density wave in doping Kitaev spin liquid on the honeycomb lattice** *NPJ QUANTUM MATERIALS*
Peng, C., Jiang, Y., Devereaux, T. P., Jiang, H.
2021; 6 (1)
- **Coulombically-stabilized oxygen hole polarons enable fully reversible oxygen redox** *ENERGY & ENVIRONMENTAL SCIENCE*
Abate, I. I., Pemmaraju, C., Kim, S., Hsu, K. H., Sainio, S., Moritz, B., Vinson, J., Toney, M. F., Yang, W., Gent, W. E., Devereaux, T. P., Nazar, L. F., Chueh, et al
2021
- **Evolution of the electronic structure in Ta₂NiSe₅ across the structural transition revealed by resonant inelastic x-ray scattering** *PHYSICAL REVIEW B*
Lu, H., Rossi, M., Kim, J., Yavas, H., Said, A., Nag, A., Garcia-Fernandez, M., Agrestini, S., Zhou, K., Jia, C., Moritz, B., Devereaux, T. P., Shen, et al
2021; 103 (23)
- **Magic Doping and Robust Superconductivity in Monolayer FeSe on Titanates.** *Advanced science (Weinheim, Baden-Wuerttemberg, Germany)*
Jia, T., Chen, Z., Rebec, S. N., Hashimoto, M., Lu, D., Devereaux, T. P., Lee, D. H., Moore, R. G., Shen, Z. X.
2021; 8 (9): 2003454
- **Cycling mechanism of Li₂MnO₃: Li-CO₂ batteries and commonality on oxygen redox in cathode materials** *JOULE*
Zhuo, Z., Dai, K., Qiao, R., Wang, R., Wu, J., Liu, Y., Peng, J., Chen, L., Chuang, Y., Pan, F., Shen, Z., Liu, G., Li, et al
2021; 5 (4): 975-997
- **Gauge invariance of light-matter interactions in first-principle tight-binding models** *PHYSICAL REVIEW B*
Schueler, M., Marks, J. A., Murakami, Y., Jia, C., Devereaux, T. P.
2021; 103 (15)
- **Tendencies of enhanced electronic nematicity in the Hubbard model and a comparison with Raman scattering on high-temperature superconductors** *PHYSICAL REVIEW B*
Liu, T., Jost, D., Moritz, B., Huang, E. W., Hackl, R., Devereaux, T. P.
2021; 103 (13)
- **Electronic Structure Trends Across the Rare-Earth Series in Superconducting Infinite-Layer Nickelates** *PHYSICAL REVIEW X*
Been, E., Lee, W., Hwang, H. Y., Cui, Y., Zaanen, J., Devereaux, T., Moritz, B., Jia, C.
2021; 11 (1)
- **Magic Doping and Robust Superconductivity in Monolayer FeSe on Titanates** *ADVANCED SCIENCE*
Jia, T., Chen, Z., Rebec, S. N., Hashimoto, M., Lu, D., Devereaux, T. P., Lee, D., Moore, R. G., Shen, Z.
2021
- **Spectral properties and enhanced superconductivity in renormalized Migdal-Eliashberg theory** *PHYSICAL REVIEW B*
Nosarzewski, B., Schuler, M., Devereaux, T. P.
2021; 103 (2)
- **Preserving a robust CsPbI₃ perovskite phase via pressure-directed octahedral tilt.** *Nature communications*
Ke, F. n., Wang, C. n., Jia, C. n., Wolf, N. R., Yan, J. n., Niu, S. n., Devereaux, T. P., Karunadasa, H. I., Mao, W. L., Lin, Y. n.

2021; 12 (1): 461

- **Coulombically-stabilized oxygen hole polarons enable fully reversible oxygen redox.** *Energy & environmental science*
Abate, I. I., Pemmaraju, C. D., Kim, S. Y., Hsu, K. H., Sainio, S., Moritz, B., Vinson, J., Toney, M. F., Yang, W., Gent, W. E., Devereaux, T. P., Nazar, L. F., Chueh, et al
2021; 14 (9)
- **Dynamical signatures of symmetry protected topology following symmetry breaking** *Physical Review Research*
Marks, J. A., Schüler, M., Devereaux, T. P.
2021; 3 (2)
- **Anomalously strong near-neighbor attraction in doped 1D cuprate chains.** *Science (New York, N.Y.)*
Chen, Z., Wang, Y., Rebec, S. N., Jia, T., Hashimoto, M., Lu, D., Moritz, B., Moore, R. G., Devereaux, T. P., Shen, Z.
2021; 373 (6560): 1235-1239
- **Correlation-Assisted Quantized Charge Pumping** *Physical Review B*
Marks, J., Schüler, M., Budich, J. C., Devereaux, T. P.
2021; 103 (3): 035112
- **Time-resolved RIXS experiment with pulse-by-pulse parallel readout data collection using X-ray free electron laser.** *Scientific reports*
Lu, H., Gauthier, A., Hepting, M., Tremsin, A. S., Reid, A. H., Kirchmann, P. S., Shen, Z. X., Devereaux, T. P., Shao, Y. C., Feng, X., Coslovich, G., Hussain, Z., Dakovski, et al
2020; 10 (1): 22226
- **Site-specific structure at multiple length scales in kagome quantum spin liquid candidates** *PHYSICAL REVIEW MATERIALS*
Smaha, R. W., Boukahil, I., Titus, C. J., Jiang, J., Sheckelton, J. P., He, W., Wen, J., Vinson, J., Wang, S., Chen, Y., Teat, S. J., Devereaux, T. P., Das Pemmaraju, et al
2020; 4 (12)
- **Emergence of quasiparticles in a doped Mott insulator** *COMMUNICATIONS PHYSICS*
Wang, Y., He, Y., Wohlfeld, K., Hashimoto, M., Huang, E. W., Lu, D., Mo, S., Komiyama, S., Jia, C., Moritz, B., Shen, Z., Devereaux, T. P.
2020; 3 (1)
- **Observing photo-induced chiral edge states of graphene nanoribbons in pump-probe spectroscopies** *NPJ QUANTUM MATERIALS*
Chen, Y., Wang, Y., Claassen, M., Moritz, B., Devereaux, T. P.
2020; 5 (1)
- **How Circular Dichroism in Time- and Angle-Resolved Photoemission Can Be Used to Spectroscopically Detect Transient Topological States in Graphene** *PHYSICAL REVIEW X*
Schuler, M., De Giovannini, U., Huebener, H., Rubio, A., Sentef, M. A., Devereaux, T. P., Werner, P.
2020; 10 (4)
- **Spectroscopic fingerprint of charge order melting driven by quantum fluctuations in a cuprate (Aug, 10.1038/s41567-020-0993-7, 2020)** *NATURE PHYSICS*
Lee, W. S., Zhou, K., Hepting, M., Li, J., Nag, A., Walters, A. C., Garcia-Fernandez, M., Robarts, H. C., Hashimoto, M., Lu, H., Nosarzewski, B., Song, D., Eisaki, et al
2020
- **Spectroscopic fingerprint of charge order melting driven by quantum fluctuations in a cuprate** *NATURE PHYSICS*
Lee, W. S., Zhou, K. J., Hepting, M., Li, J., Nag, A., Walters, A. C., Garcia-Fernandez, M., Robarts, H. C., Hashimoto, M., Lu, H., Nosarzewski, B., Song, D., Eisaki, et al
2020
- **DC Hall coefficient of the strongly correlated Hubbard model** *NPJ QUANTUM MATERIALS*
Wang, W. O., Ding, J. K., Moritz, B., Huang, E. W., Devereaux, T. P.
2020; 5 (1)
- **Ground state phase diagram of the doped Hubbard model on the four-leg cylinder** *PHYSICAL REVIEW RESEARCH*
Jiang, Y., Zaanen, J., Devereaux, T. P., Jiang, H.
2020; 2 (3)
- **Berry curvature memory through electrically driven stacking transitions** *NATURE PHYSICS*

- Xiao, J., Wang, Y., Wang, H., Pemmaraju, C. D., Wang, S., Muscher, P., Sie, E. J., Nyby, C. M., Devereaux, T. P., Qian, X., Zhang, X., Lindenberg, A. M.
2020
- **Metallic surface states in a correlated d-electron topological Kondo insulator candidate FeSb₂.** *Proceedings of the National Academy of Sciences of the United States of America*
Xu, K., Chen, S., He, Y., He, J., Tang, S., Jia, C., Ma, E. Y., Mo, S., Lu, D., Hashimoto, M., Devereaux, T. P., Shen, Z.
2020
 - **Time-resolved resonant inelastic x-ray scattering in a pumped Mott insulator** *PHYSICAL REVIEW B*
Wang, Y., Chen, Y., Jia, C., Moritz, B., Devereaux, T. P.
2020; 101 (16)
 - **Ab initio molecular dynamics study of SiO₂ lithiation** *CHEMICAL PHYSICS LETTERS*
Abate, I., Jia, C. J., Moritz, B., Devereaux, T. P.
2020; 739
 - **Site-Specific Structure at Multiple Length Scales in Kagome Quantum Spin Liquid Candidates.** *Physical review materials*
Smaha, R. W., Boukahil, I., Titus, C. J., Jiang, J. M., Sheckelton, J. P., He, W., Wen, J., Vinson, J., Wang, S. G., Chen, Y. S., Teat, S. J., Devereaux, T. P., Pemmaraju, et al
2020; 4 (12)
 - **Biexciton Condensation in Electron-Hole-Doped Hubbard Bilayers: A Sign-Problem-Free Quantum Monte Carlo Study.** *Physical review letters*
Huang, X. X., Claassen, M. n., Huang, E. W., Moritz, B. n., Devereaux, T. P.
2020; 124 (7): 077601
 - **Facile diamond synthesis from lower diamondoids.** *Science advances*
Park, S. n., Abate, I. I., Liu, J. n., Wang, C. n., Dahl, J. E., Carlson, R. M., Yang, L. n., Prakapenka, V. B., Greenberg, E. n., Devereaux, T. P., Jia, C. n., Ewing, R. C., Mao, et al
2020; 6 (8): eaay9405
 - **The role of metal substitution in tuning anion redox in sodium metal layered oxides revealed by X-ray spectroscopy and theory.** *Angewandte Chemie (International ed. in English)*
Nazar, L. n., Abate, I. n., Kim, S. Y., Das Pemmaraju, C. n., Toney, M. F., Yang, W. n., Devereaux, T. P., Chueh, W. C.
2020
 - **Angle-resolved photoemission spectroscopy of a Fermi-Hubbard system** *NATURE PHYSICS*
Brown, P. T., Guardado-Sanchez, E., Spar, B. M., Huang, E. W., Devereaux, T. P., Bakr, W. S.
2020; 16 (1): 26+
 - **Strange metallicity in the doped Hubbard model.** *Science (New York, N.Y.)*
Huang, E. W., Sheppard, R., Moritz, B., Devereaux, T. P.
2019; 366 (6468): 987–90
 - **Field-induced quantum spin liquid in the Kitaev-Heisenberg model and its relation to alpha-RuCl₃** *PHYSICAL REVIEW B*
Jiang, Y., Devereaux, T. P., Jiang, H.
2019; 100 (16)
 - **Numerical investigation of spin excitations in a doped spin chain** *PHYSICAL REVIEW B*
Parschke, E. M., Wang, Y., Moritz, B., Devereaux, T. P., Chen, C., Wohlfeld, K.
2019; 99 (20)
 - **Theory for time-resolved resonant inelastic x-ray scattering** *PHYSICAL REVIEW B*
Chen, Y., Wang, Y., Jia, C., Moritz, B., Shvaika, A. M., Freericks, J. K., Devereaux, T. P.
2019; 99 (10)
 - **Solid Electrolyte Interphase on Native Oxide-Terminated Silicon Anodes for Li-Ion Batteries** *JOULE*
Cao, C., Abate, I., Sivonxay, E., Shyam, B., Jia, C., Moritz, B., Devereaux, T. P., Persson, K. A., Steinruck, H., Toney, M. F.
2019; 3 (3): 762–81
 - **Frustrated magnetism from local moments in FeSe** *PHYSICAL REVIEW B*
Ruiz, H., Wang, Y., Moritz, B., Baum, A., Hackl, R., Devereaux, T. P.

2019; 99 (12)

- **Fermi surface reconstruction in electron-doped cuprates without antiferromagnetic long-range order.** *Proceedings of the National Academy of Sciences of the United States of America*
He, J., Rotundu, C. R., Scheurer, M. S., He, Y., Hashimoto, M., Xu, K., Wang, Y., Huang, E. W., Jia, T., Chen, S., Moritz, B., Lu, D., Lee, et al
2019; 116 (9): 3449–53
- **Fermi surface reconstruction in electron-doped cuprates without antiferromagnetic long-range order** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
He, J., Rotundu, C. R., Scheurer, M. S., He, Y., Hashimoto, M., Xu, K., Wang, Y., Huang, E. W., Jia, T., Chen, S., Moritz, B., Lu, D., Lee, et al
2019; 116 (9): 3449–53
- **Superconductivity in the doped Hubbard model and its interplay with next-nearest hopping t' .** *Science (New York, N.Y.)*
Jiang, H. C., Devereaux, T. P.
2019; 365 (6460): 1424–28
- **THz-Pump UED-Probe on a Topological Weyl Semimetal**
Sie, E. J., Nyby, C. M., Pemmaraju, C. D., Park, S., Shen, X., Yang, J., Hoffmann, M. C., Ofori-Okai, B. K., Li, R., Reid, A. H., Weathersby, S., Mannebach, E., Finney, et al
IEEE.2019
- **An Ultrafast Symmetry Switch in a Weyl Semimetal** *Nature*
Sie, E. J., et al
2019; 565, 61
- **An ultrafast symmetry switch in a Weyl semimetal.** *Nature*
Sie, E. J., Nyby, C. M., Pemmaraju, C. D., Park, S. J., Shen, X. n., Yang, J. n., Hoffmann, M. C., Ofori-Okai, B. K., Li, R. n., Reid, A. H., Weathersby, S. n., Mannebach, E. n., Finney, et al
2019; 565 (7737): 61–66
- **Incoherent strange metal sharply bounded by a critical doping in Bi2212.** *Science (New York, N.Y.)*
Chen, S. D., Hashimoto, M. n., He, Y. n., Song, D. n., Xu, K. J., He, J. F., Devereaux, T. P., Eisaki, H. n., Lu, D. H., Zaanen, J. n., Shen, Z. X.
2019; 366 (6469): 1099–1102
- **Theory of time-resolved Raman scattering in correlated systems: Ultrafast engineering of spin dynamics and detection of thermalization** *PHYSICAL REVIEW B*
Wang, Y., Devereaux, T. P., Chen, C.
2018; 98 (24)
- **Spectroscopic Signature of Oxidized Oxygen States in Peroxides** *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*
Zhuo, Z., Das Pemmaraju, C., Vinson, J., Jia, C., Moritz, B., Lee, I., Sallies, S., Li, Q., Wu, J., Dai, K., Chuang, Y., Hussain, Z., Pan, et al
2018; 9 (21): 6378–84
- **Spectroscopic Signature of Oxidized Oxygen States in Peroxides.** *The journal of physical chemistry letters*
Zhuo, Z., Pemmaraju, C. D., Vinson, J., Jia, C., Moritz, B., Lee, I., Sallies, S., Li, Q., Wu, J., Dai, K., Chuang, Y., Hussain, Z., Pan, et al
2018: 6378–84
- **Microscopic origin of Cooper pairing in the iron-based superconductor Ba_{1-x}K_xFe₂As₂** *NPJ QUANTUM MATERIALS*
Boehm, T., Kretzschmar, F., Baum, A., Rehm, M., Jost, D., Ahangharnejhad, R., Thomale, R., Platt, C., Maier, T. A., Hanke, W., Moritz, B., Devereaux, T. P., Scalapino, et al
2018; 3
- **Anionic and cationic redox and interfaces in batteries: Advances from soft X-ray absorption spectroscopy to resonant inelastic scattering** *JOURNAL OF POWER SOURCES*
Yang, W., Devereaux, T. P.
2018; 389: 188–97
- **Magnon Splitting Induced by Charge Transfer in the Three-Orbital Hubbard Model.** *Physical review letters*
Wang, Y., Huang, E. W., Moritz, B., Devereaux, T. P.
2018; 120 (24): 246401

- **Magnon Splitting Induced by Charge Transfer in the Three-Orbital Hubbard Model** *PHYSICAL REVIEW LETTERS*
Wang, Y., Huang, E. W., Moritz, B., Devereaux, T. P.
2018; 120 (24)
- **Unconventional pairing symmetry of interacting Dirac fermions on a pi-flux lattice** *PHYSICAL REVIEW B*
Guo, H., Khatami, E., Wang, Y., Devereaux, T. P., Singh, R. P., Scalettar, R. T.
2018; 97 (15)
- **Influence of magnetism and correlation on the spectral properties of doped Mott insulators** *PHYSICAL REVIEW B*
Wang, Y., Moritz, B., Chen, C., Devereaux, T. P., Wohlfeld, K.
2018; 97 (11)
- **Polaronic behavior in a weak-coupling superconductor** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Swartz, A. G., Inoue, H., Merz, T. A., Hikita, Y., Raghu, S., Devereaux, T. P., Johnston, S., Hwang, H. Y.
2018; 115 (7): 1475–80
- **Emergence of Interfacial Polarons from Electron-Phonon Coupling in Graphene/h-BN van der Waals Heterostructures** *NANO LETTERS*
Chen, C., Avila, J., Wang, S., Wang, Y., Mucha-Kruczynski, M., Shen, C., Yang, R., Nosarzewski, B., Devereaux, T. P., Zhang, G., Asensio, M.
2018; 18 (2): 1082–87
- **Electronic structure of monolayer 1T'-MoTe2 grown by molecular beam epitaxy** *APL MATERIALS*
Tang, S., Zhang, C., Jia, C., Ryu, H., Hwang, C., Hashimoto, M., Lu, D., Liu, Z., Devereaux, T. P., Shen, Z., Mo, S.
2018; 6 (2)
- **Stripe order from the perspective of the Hubbard model** *npj Quantum Materials*
Huang, E. W., Mendl, C. B., Jiang, H., Moritz, B., Devereaux, T. P.
2018; 3 (1)
- **Numerical evidence of fluctuating stripes in the normal state of high-Tc cuprate superconductors** *SCIENCE*
Huang, E. W., Mendl, C. B., Liu, S., Johnston, S., Jiang, H., Moritz, B., Devereaux, T. P.
2017; 358 (6367): 1161–+
- **Dynamical time-reversal symmetry breaking and photo-induced chiral spin liquids in frustrated Mott insulators** *NATURE COMMUNICATIONS*
Claassen, M., Jiang, H., Moritz, B., Devereaux, T. P.
2017; 8: 1192
- **Decrease of d-wave pairing strength in spite of the persistence of magnetic excitations in the overdoped Hubbard model** *PHYSICAL REVIEW B*
Huang, E. W., Scalapino, D. J., Maier, T. A., Moritz, B., Devereaux, T. P.
2017; 96 (2)
- **Femtosecond electron-phonon lock-in by photoemission and x-ray free-electron laser** *SCIENCE*
Gerber, S., Yang, S., Zhu, D., Soifer, H., Sobota, J. A., Rebec, S., Lee, J. J., Jia, T., Moritz, B., Jia, C., Gauthier, A., Li, Y., Leuenberger, et al
2017; 357 (6346): 71–74
- **Quantum spin Hall state in monolayer 1T'-WTe2** *NATURE PHYSICS*
Tang, S., Zhang, C., Wong, D., Pedramrazi, Z., Tsai, H., Jia, C., Moritz, B., Claassen, M., Ryu, H., Kahn, S., Jiang, J., Yan, H., Hashimoto, et al
2017; 13 (7): 683–+
- **Nonequilibrium lattice-driven dynamics of stripes in nickelates using time-resolved x-ray scattering** *PHYSICAL REVIEW B*
Lee, W. S., Kung, Y. F., Moritz, B., Coslovich, G., Kaindl, R. A., Chuang, Y. D., Moore, R. G., Lu, D. H., Kirchmann, P. S., ROBINSON, J. S., Minitti, M. P., Dakovski, G., Schlotter, et al
2017; 95 (12)
- **Hybrid metal-organic chalcogenide nanowires with electrically conductive inorganic core through diamondoid-directed assembly.** *Nature materials*
Yan, H., Hohman, J. N., Li, F. H., Jia, C., Solis-Ibarra, D., Wu, B., Dahl, J. E., Carlson, R. M., Tkachenko, B. A., Fokin, A. A., Schreiner, P. R., Vailionis, A., Kim, et al
2017; 16 (3): 349-355
- **Modular soft x-ray spectrometer for applications in energy sciences and quantum materials.** *The Review of scientific instruments*

- Chuang, Y., Shao, Y., Cruz, A., Hanzel, K., Brown, A., Frano, A., Qiao, R., Smith, B., Domning, E., Huang, S., Wray, L. A., Lee, W., Shen, et al
2017; 88 (1): 013110-?
- **Distinct Electronic Structure for the Extreme Magnetoresistance in YSb** *PHYSICAL REVIEW LETTERS*
He, J., Zhang, C., Ghimire, N. J., Liang, T., Jia, C., Jiang, J., Tang, S., Chen, S., He, Y., Mo, S., Hwang, C. C., Hashimoto, M., Lu, et al
2016; 117 (26)
 - **Ideal charge-density-wave order in the high-field state of superconducting YBCO** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Jang, H., Lee, W., Nojiri, H., Matsuzawa, S., Yasumura, H., Nie, L., Maharaj, A. V., Gerber, S., Liu, Y., Mehta, A., Bonn, D. A., Liang, R., Hardy, et al
2016; 113 (51): 14645-14650
 - **Nature of a single doped hole in two-leg Hubbard and t-J ladders** *PHYSICAL REVIEW B*
Liu, S., Jiang, H., Devereaux, T. P.
2016; 94 (15)
 - **Directly Characterizing the Relative Strength and Momentum Dependence of Electron-Phonon Coupling Using Resonant Inelastic X-Ray Scattering** *PHYSICAL REVIEW X*
Devereaux, T. P., Shvaika, A. M., Wu, K., Wohlfeld, K., Jia, C. J., Wang, Y., Moritz, B., Chaix, L., Lee, W., Shen, Z., Ghiringhelli, G., Braicovich, L.
2016; 6 (4)
 - **All-optical materials design of chiral edge modes in transition-metal dichalcogenides** *NATURE COMMUNICATIONS*
Claassen, M., Jia, C., Moritz, B., Devereaux, T. P.
2016; 7
 - **Time-domain pumping a quantum-critical charge density wave ordered material** *PHYSICAL REVIEW B*
Matveev, O. P., Shvaika, A. M., Devereaux, T. P., Freericks, J. K.
2016; 94 (11)
 - **Distinctive orbital anisotropy observed in the nematic state of a FeSe thin film** *PHYSICAL REVIEW B*
Zhang, Y., Yi, M., Liu, Z., Li, W., Lee, J. J., Moore, R. G., Hashimoto, M., Nakajima, M., Eisaki, H., Mo, S., Hussain, Z., Devereaux, T. P., Shen, et al
2016; 94 (11)
 - **Superconducting Gap Anisotropy in Monolayer FeSe Thin Film** *PHYSICAL REVIEW LETTERS*
Zhang, Y., Lee, J. J., Moore, R. G., Li, W., Yi, M., Hashimoto, M., Lu, D. H., Devereaux, T. P., Lee, D., Shen, Z.
2016; 117 (11)
 - **Tailoring the nature and strength of electron-phonon interactions in the SrTiO₃(001) 2D electron liquid** *NATURE MATERIALS*
Wang, Z., Walker, S. M., Tamai, A., Wang, Y., Ristic, Z., Bruno, F. Y., de la Torre, A., Ricco, S., Plumb, N. C., Shi, M., Hlawenka, P., Sanchez-Barriga, J., Varykhalov, et al
2016; 15 (8): 835-?
 - **Using RIXS to Uncover Elementary Charge and Spin Excitations** *PHYSICAL REVIEW X*
Jia, C., Wohlfeld, K., Wang, Y., Moritz, B., Devereaux, T. P.
2016; 6 (2)
 - **Characterizing the three-orbital Hubbard model with determinant quantum Monte Carlo** *PHYSICAL REVIEW B*
Kung, Y. F., Chen, C., Wang, Y., Huang, E. W., Nowadnick, E. A., Moritz, B., Scalettar, R. T., Johnston, S., Devereaux, T. P.
2016; 93 (15)
 - **Nonequilibrium Dynamical Mean-Field Theory for the Charge-Density-Wave Phase of the Falicov-Kimball Model** *JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM*
Matveev, O. P., Shvaika, A. M., Devereaux, T. P., Freericks, J. K.
2016; 29 (3): 581-585
 - **Using Nonequilibrium Dynamics to Probe Competing Orders in a Mott-Peierls System** *PHYSICAL REVIEW LETTERS*
Wang, Y., Moritz, B., Chen, C., Jia, C. J., van Veenendaal, M., Devereaux, T. P.
2016; 116 (8)
 - **Ultrafast resonant soft x-ray diffraction dynamics of the charge density wave in TbTe₃** *PHYSICAL REVIEW B*

- Moore, R. G., Lee, W. S., Kirchman, P. S., Chuang, Y. D., Kemper, A. F., Trigo, M., Patthey, L., Lu, D. H., Krupin, O., Yi, M., Reis, D. A., Doering, D., Denes, et al
2016; 93 (2)
- **Raman and fluorescence characteristics of resonant inelastic X-ray scattering from doped superconducting cuprates** *SCIENTIFIC REPORTS*
Huang, H. Y., Jia, C. J., Chen, Z. Y., Wohlfeld, K., Moritz, B., Devereaux, T. P., Wu, W. B., Okamoto, J., Lee, W. S., Hashimoto, M., He, Y., Shen, Z. X., Yoshida, et al
2016; 6
 - **Nonequilibrium response of an electron-mediated charge density wave ordered material to a large dc electric field** *PHYSICAL REVIEW B*
Matveev, O. P., Shvaika, A. M., Devereaux, T. P., Freericks, J. K.
2016; 93 (4)
 - **Origin of the low critical observing temperature of the quantum anomalous Hall effect in V-doped (Bi, Sb)₂Te₃ film.** *Scientific reports*
Li, W., Claassen, M., Chang, C., Moritz, B., Jia, T., Zhang, C., Rebec, S., Lee, J. J., Hashimoto, M., Lu, D., Moore, R. G., Moodera, J. S., Devereaux, et al
2016; 6: 32732-?
 - **Direct observation of Higgs mode oscillations in the pump-probe photoemission spectra of electron-phonon mediated superconductors** *PHYSICAL REVIEW B*
Kemper, A. F., Sentef, M. A., Moritz, B., Freericks, J. K., Devereaux, T. P.
2015; 92 (22)
 - **Three-dimensional charge density wave order in YBa₂Cu₃O_{6.67} at high magnetic fields** *SCIENCE*
Gerber, S., Jang, H., Nojiri, H., Matsuzawa, S., Yasumura, H., Bonn, D. A., Liang, R., Hardy, W. N., Islam, Z., Mehta, A., Song, S., Sikorski, M., Stefanescu, et al
2015; 350 (6263): 949-952
 - **Doping evolution of spin and charge excitations in the Hubbard model** *PHYSICAL REVIEW B*
Kung, Y. F., Nowadnick, E. A., Jia, C. J., Johnston, S., Moritz, B., Scalettar, R. T., Devereaux, T. P.
2015; 92 (19)
 - **Gauge invariance in the theoretical description of time-resolved angle-resolved pump/probe photoemission spectroscopy** *PHYSICA SCRIPTA*
Freericks, J. K., Krishnamurthy, H. R., Sentef, M. A., Devereaux, T. P.
2015; T165
 - **Magnetic excitations and phonons simultaneously studied by resonant inelastic x-ray scattering in optimally doped Bi_{1.5}Pb_{0.55}Sr_{1.6}La_{0.4}CuO_{6+delta}** *PHYSICAL REVIEW B*
Peng, Y. Y., Hashimoto, M., Sala, M. M., AMORESE, A., Brookes, N. B., Dellea, G., Lee, W., Minola, M., Schmitt, T., Yoshida, Y., Zhou, K., Eisaki, H., Devereaux, et al
2015; 92 (6)
 - **Origin of strong dispersion in Hubbard insulators** *PHYSICAL REVIEW B*
Wang, Y., Wohlfeld, K., Moritz, B., Jia, C. J., van Veenendaal, M., Wu, K., Chen, C., Devereaux, T. P.
2015; 92 (7)
 - **Fidelity study of superconductivity in extended Hubbard models** *PHYSICAL REVIEW B*
Plonka, N., Jia, C. J., Wang, Y., Moritz, B., Devereaux, T. P.
2015; 92 (2)
 - **Position-Momentum Duality and Fractional Quantum Hall Effect in Chern Insulators.** *Physical review letters*
Claassen, M., Lee, C. H., Thomale, R., Qi, X., Devereaux, T. P.
2015; 114 (23): 236802-?
 - **Position-Momentum Duality and Fractional Quantum Hall Effect in Chern Insulators** *PHYSICAL REVIEW LETTERS*
Claassen, M., Lee, C. H., Thomale, R., Qi, X., Devereaux, T. P.
2015; 114 (23)
 - **Direct characterization of photoinduced lattice dynamics in BaFe₂As₂** *NATURE COMMUNICATIONS*
Gerber, S., Kim, K. W., Zhang, Y., Zhu, D., Plonka, N., Yi, M., Dakovski, G. L., Leuenberger, D., Kirchmann, P. S., Moore, R. G., Chollet, M., Glowonia, J. M., Feng, et al
2015; 6

- **Classification of collective modes in a charge density wave by momentum-dependent modulation of the electronic band structure** *PHYSICAL REVIEW B*
Leuenberger, D., Sobota, J. A., Yang, S., Kemper, A. F., Giraldo-Gallo, P., Moore, R. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.
2015; 91 (20)
- **Theory of Floquet band formation and local pseudospin textures in pump-probe photoemission of graphene** *NATURE COMMUNICATIONS*
Sentef, M. A., Claassen, M., Kemper, A. F., Moritz, B., Oka, T., Freericks, J. K., Devereaux, T. P.
2015; 6
- **Renormalization of spectra by phase competition in the half-filled Hubbard-Holstein model** *PHYSICAL REVIEW B*
Nowadnick, E. A., Johnston, S., Moritz, B., Devereaux, T. P.
2015; 91 (16)
- **Fractionalization, entanglement, and separation: Understanding the collective excitations in a spin-orbital chain** *PHYSICAL REVIEW B*
Chen, C., van Veenendaal, M., Devereaux, T. P., Wohlfeld, K.
2015; 91 (16)
- **Spin Chain in Magnetic Field: Limitations of the Large-N Mean-Field Theory** *14th European Conference on Physics of Magnetism (PM)*
Wohlfeld, K., Chen, C., van Veenendaal, M., Devereaux, T. P.
POLISH ACAD SCIENCES INST PHYSICS.2015: 201-3
- **Probing LaMO3 Metal and Oxygen Partial Density of States Using X-ray Emission, Absorption, and Photoelectron Spectroscopy** *JOURNAL OF PHYSICAL CHEMISTRY C*
Hong, W. T., Stoerzinger, K. A., Moritz, B., Devereaux, T. P., Yang, W., Shao-Horn, Y.
2015; 119 (4): 2063-2072
- **Interface ferroelectric transition near the gap-opening temperature in a single-unit-cell FeSe film grown on Nb-Doped SrTiO3 substrate.** *Physical review letters*
Cui, Y., Moore, R. G., Zhang, A., Tian, Y., Lee, J. J., Schmitt, F. T., Zhang, W., Li, W., Yi, M., Liu, Z., Hashimoto, M., Zhang, Y., Lu, et al
2015; 114 (3): 037002-?
- **Interface Ferroelectric Transition near the Gap-Opening Temperature in a Single-Unit-Cell FeSe Film Grown on Nb-Doped SrTiO₃ Substrate.** *Physical review letters*
Cui, Y., Moore, R. G., Zhang, A., Tian, Y., Lee, J. J., Schmitt, F. T., Zhang, W., Li, W., Yi, M., Liu, Z., Hashimoto, M., Zhang, Y., Lu, et al
2015; 114 (3): 037002-?
- **Direct spectroscopic evidence for phase competition between the pseudogap and superconductivity in Bi2Sr2CaCu2O8+delta** *NATURE MATERIALS*
Hashimoto, M., Nowadnick, E. A., He, R., Vishik, I. M., Moritz, B., He, Y., Tanaka, K., Moore, R. G., Lu, D., Yoshida, Y., Ishikado, M., Sasagawa, T., Fujita, et al
2015; 14 (1): 37-42
- **Why LiFePO4 is a safe battery electrode: Coulomb repulsion induced electron-state reshuffling upon lithiation** *PHYSICAL CHEMISTRY CHEMICAL PHYSICS*
Liu, X., Wang, Y. J., Barbiellini, B., Hafiz, H., Basak, S., Liu, J., Richardson, T., Shu, G., Chou, F., Weng, T., Nordlund, D., Sokaras, D., Moritz, et al
2015; 17 (39): 26369-26377
- **Theory of Floquet band formation and local pseudospin textures in pump-probe photoemission of graphene.** *Nature communications*
Sentef, M. A., Claassen, M., Kemper, A. F., Moritz, B., Oka, T., Freericks, J. K., Devereaux, T. P.
2015; 6: 7047-?
- **Direct characterization of photoinduced lattice dynamics in BaFe2As2.** *Nature communications*
Gerber, S., Kim, K. W., Zhang, Y., Zhu, D., Plonka, N., Yi, M., Dakovski, G. L., Leuenberger, D., Kirchmann, P. S., Moore, R. G., Chollet, M., Glowonia, J. M., Feng, et al
2015; 6: 7377-?
- **Balancing Act: Evidence for a Strong Subdominant d-Wave Pairing Channel in Ba0.6K0.4Fe2As2** *PHYSICAL REVIEW X*
Boehm, T., Kemper, A. F., Moritz, B., Kretschmar, F., Muschler, B., Eiter, H., Hackl, R., Devereaux, T. P., Scalapino, D. J., Wen, H.
2014; 4 (4)
- **Numerical exploration of spontaneous broken symmetries in multiorbital Hubbard models** *PHYSICAL REVIEW B*
Kung, Y. F., Chen, C., Moritz, B., Johnston, S., Thomale, R., Devereaux, T. P.
2014; 90 (22)

- **Interfacial mode coupling as the origin of the enhancement of T-c in FeSe films on SrTiO₃** *NATURE*
Lee, J. J., Schmitt, F. T., Moore, R. G., Johnston, S., Cui, Y., Li, W., Yi, M., Liu, Z. K., Hashimoto, M., Zhang, Y., Lu, D. H., Devereaux, T. P., Lee, et al
2014; 515 (7526): 245-U207
- **Beyond Planck-Einstein quanta: Amplitude-driven quantum excitation** *PHYSICAL REVIEW B*
Shen, W., Devereaux, T. P., Freericks, J. K.
2014; 90 (19)
- **Asymmetry of collective excitations in electron- and hole-doped cuprate superconductors** *NATURE PHYSICS*
Lee, W. S., Lee, J. J., Nowadnick, E. A., Gerber, S., Tabis, W., Huang, S. W., Strocov, V. N., Motoyama, E. M., Yu, G., Moritz, B., Huang, H. Y., Wang, R. P., Huang, et al
2014; 10 (11): 883-889
- **Distinguishing Bulk and Surface Electron-Phonon Coupling in the Topological Insulator Bi₂Se₃ Using Time-Resolved Photoemission Spectroscopy** *PHYSICAL REVIEW LETTERS*
Sobota, J. A., Yang, S., Leuenberger, D., Kemper, A. F., Analytis, J. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.
2014; 113 (15)
- **Exact solution for high harmonic generation and the response to an ac driving field for a charge density wave insulator** *PHYSICAL REVIEW B*
Shen, W., Kemper, A. F., Devereaux, T. P., Freericks, J. K.
2014; 90 (11)
- **Effect of dynamical spectral weight redistribution on effective interactions in time-resolved spectroscopy** *PHYSICAL REVIEW B*
Kemper, A. F., Sentef, M. A., Moritz, B., Freericks, J. K., Devereaux, T. P.
2014; 90 (7)
- **Ultrafast electron dynamics in the topological insulator Bi₂Se₃ studied by time-resolved photoemission spectroscopy** *JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA*
Sobota, J. A., Yang, S., Leuenberger, D., Kemper, A. F., Analytis, J. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.
2014; 195: 249-257
- **Energy gaps in high-transition-temperature cuprate superconductors** *NATURE PHYSICS*
Hashimoto, M., Vishik, I. M., He, R., Devereaux, T. P., Shen, Z.
2014; 10 (7): 483-495
- **Direct observation of bulk charge modulations in optimally doped Bi_{1.5}Pb_{0.6}Sr_{1.54}CaCu₂O_{8+delta}** *PHYSICAL REVIEW B*
Hashimoto, M., Ghiringhelli, G., Lee, W., Dellea, G., AMORESE, A., Mazzoli, C., KUMMER, K., Brookes, N. B., Moritz, B., Yoshida, Y., Eisaki, H., Hussain, Z., Devereaux, et al
2014; 89 (22)
- **Exact solution for Bloch oscillations of a simple charge-density-wave insulator** *PHYSICAL REVIEW B*
Shen, W., Devereaux, T. P., Freericks, J. K.
2014; 89 (23)
- **Bandgap closure and reopening in CsAuI₃ at high pressure** *PHYSICAL REVIEW B*
Wang, S., Kemper, A. F., Baldini, M., SHAPIRO, M. C., Riggs, S. C., Zhao, Z., Liu, Z., Devereaux, T. P., Geballe, T. H., Fisher, I. R., Mao, W. L.
2014; 89 (24)
- **Angle-resolved photoemission spectroscopy study of HgBa₂CuO_{4+delta}** *PHYSICAL REVIEW B*
Vishik, I. M., Barisic, N., Chan, M. K., Li, Y., Xia, D. D., Yu, G., Zhao, X., Lee, W. S., Meevasana, W., Devereaux, T. P., Greven, M., Shen, Z.
2014; 89 (19)
- **Nonequilibrium "Melting" of a Charge Density Wave Insulator via an Ultrafast Laser Pulse.** *Physical review letters*
Shen, W., Ge, Y., Liu, A. Y., Krishnamurthy, H. R., Devereaux, T. P., Freericks, J. K.
2014; 112 (17): 176404-?
- **Real-space visualization of remnant mott gap and magnon excitations.** *Physical review letters*
Wang, Y., Jia, C. J., Moritz, B., Devereaux, T. P.
2014; 112 (15): 156402-?

- **Dynamic competition between spin-density wave order and superconductivity in underdoped Ba_{1-x}K_xFe₂As₂** *NATURE COMMUNICATIONS*
Yi, M., Zhang, Y., Liu, Z., Ding, X., Chu, J., Kemper, A. F., Plonka, N., Moritz, B., Hashimoto, M., Mo, S., Hussain, Z., Devereaux, T. P., Fisher, et al
2014; 5
- **Charge-orbital-lattice coupling effects in the dd excitation profile of one-dimensional cuprates** *PHYSICAL REVIEW B*
Lee, J. J., Moritz, B., Lee, W. S., Yi, M., Jia, C. J., Sorini, A. P., Kudo, K., Koike, Y., Zhou, K. J., Monney, C., Strocov, V., Patthey, L., Schmitt, et al
2014; 89 (4)
- **Persistent spin excitations in doped antiferromagnets revealed by resonant inelastic light scattering.** *Nature communications*
Jia, C. J., Nowadnick, E. A., Wohlfeld, K., Kung, Y. F., Chen, C., Johnston, S., Tohyama, T., Moritz, B., Devereaux, T. P.
2014; 5: 3314-?
- **Persistent spin excitations in doped antiferromagnets revealed by resonant inelastic light scattering.** *Nature communications*
Jia, C. J., Nowadnick, E. A., Wohlfeld, K., Kung, Y. F., Chen, C., Johnston, S., Tohyama, T., Moritz, B., Devereaux, T. P.
2014; 5: 3314-?
- **Dynamic competition between spin-density wave order and superconductivity in underdoped Ba(1-x)K(x)Fe₂As₂.** *Nature communications*
Yi, M., Zhang, Y., Liu, Z., Ding, X., Chu, J., Kemper, A. F., Plonka, N., Moritz, B., Hashimoto, M., Mo, S., Hussain, Z., Devereaux, T. P., Fisher, et al
2014; 5: 3711-?
- **Examining Electron-Boson Coupling Using Time-Resolved Spectroscopy** *PHYSICAL REVIEW X*
Sentef, M., Kemper, A. F., Moritz, B., Freericks, J. K., Shen, Z., Devereaux, T. P.
2013; 3 (4)
- **Tunneling spectroscopy for probing orbital anisotropy in iron pnictides** *PHYSICAL REVIEW B*
Plonka, N., Kemper, A. F., Graser, S., Kampf, A. P., Devereaux, T. P.
2013; 88 (17)
- **Existence of Orbital Order and its Fluctuation in Superconducting Ba(Fe_{1-x}Cox)₂As₂ Single Crystals Revealed by X-ray Absorption Spectroscopy** *PHYSICAL REVIEW LETTERS*
Kim, Y. K., Jung, W. S., Han, G. R., Choi, K., Kim, K., Chen, C., Devereaux, T. P., Chainani, A., Miyawaki, J., Takata, Y., Tanaka, Y., Oura, M., Shin, et al
2013; 111 (21)
- **Direct Optical Coupling to an Unoccupied Dirac Surface State in the Topological Insulator Bi₂Se₃** *PHYSICAL REVIEW LETTERS*
Sobota, J. A., Yang, S., Kemper, A. F., Lee, J. J., Schmitt, F. T., Li, W., Moore, R. G., Analytis, J. G., Fisher, I. R., Kirchmann, P. S., Devereaux, T. P., Shen, Z.
2013; 111 (13)
- **Time-dependent charge-order and spin-order recovery in striped systems** *PHYSICAL REVIEW B*
Kung, Y. F., Lee, W., Chen, C., Kemper, A. F., Sorini, A. P., Moritz, B., Devereaux, T. P.
2013; 88 (12)
- **Electron-mediated relaxation following ultrafast pumping of strongly correlated materials: model evidence of a correlation-tuned crossover between thermal and nonthermal states.** *Physical review letters*
Moritz, B., Kemper, A. F., Sentef, M., Devereaux, T. P., Freericks, J. K.
2013; 111 (7): 077401-?
- **Electron-Mediated Relaxation Following Ultrafast Pumping of Strongly Correlated Materials: Model Evidence of a Correlation-Tuned Crossover between Thermal and Nonthermal States** *PHYSICAL REVIEW LETTERS*
Moritz, B., Kemper, A. F., Sentef, M., Devereaux, T. P., Freericks, J. K.
2013; 111 (7)
- **Mapping of unoccupied states and relevant bosonic modes via the time-dependent momentum distribution** *PHYSICAL REVIEW B*
Kemper, A. F., Sentef, M., Moritz, B., Kao, C. C., Shen, Z. X., Freericks, J. K., Devereaux, T. P.
2013; 87 (23)
- **Role of Lattice Coupling in Establishing Electronic and Magnetic Properties in Quasi-One-Dimensional Cuprates** *PHYSICAL REVIEW LETTERS*
Lee, W. S., Johnston, S., Moritz, B., Lee, J., Yi, M., Zhou, K. J., Schmitt, T., Patthey, L., Strocov, V., Kudo, K., Koike, Y., van den Brink, J., Devereaux, et al
2013; 110 (26)
- **Determinant quantum Monte Carlo study of the two-dimensional single-band Hubbard-Holstein model** *PHYSICAL REVIEW B*

- Johnston, S., Nowadnick, E. A., Kung, Y. F., Moritz, B., Scalettar, R. T., Devereaux, T. P.
2013; 87 (23)
- **Doping evolution of the oxygen K-edge x-ray absorption spectra of cuprate superconductors using a three-orbital Hubbard model** *PHYSICAL REVIEW B*
Chen, C., Sentef, M., Kung, Y. F., Jia, C. J., Thomale, R., Moritz, B., Kampf, A. P., Devereaux, T. P.
2013; 87 (16)
 - **Real-Time Manifestation of Strongly Coupled Spin and Charge Order Parameters in Stripe-Ordered La_{1.75}Sr_{0.25}NiO₄ Nickelate Crystals Using Time-Resolved Resonant X-Ray Diffraction.** *Physical review letters*
Chuang, Y. D., Lee, W. S., Kung, Y. F., Sorini, A. P., Moritz, B., Moore, R. G., Patthey, L., Trigo, M., Lu, D. H., Kirchmann, P. S., Yi, M., Krupin, O., Langner, et al
2013; 110 (12): 127404-?
 - **Real-Time Manifestation of Strongly Coupled Spin and Charge Order Parameters in Stripe-Ordered La_{1.75}Sr_{0.25}NiO₄ Nickelate Crystals Using Time-Resolved Resonant X-Ray Diffraction** *PHYSICAL REVIEW LETTERS*
Chuang, Y. D., Lee, W. S., Kung, Y. F., Sorini, A. P., Moritz, B., Moore, R. G., Patthey, L., Trigo, M., Lu, D. H., Kirchmann, P. S., Yi, M., Krupin, O., Langner, et al
2013; 110 (12)
 - **Hot electron transport in a strongly correlated transition-metal oxide** *SCIENTIFIC REPORTS*
Rana, K. G., Yajima, T., Parui, S., Kemper, A. F., Devereaux, T. P., Hikita, Y., Hwang, H. Y., Banerjee, T.
2013; 3
 - **Theoretical description of high-order harmonic generation in solids** *NEW JOURNAL OF PHYSICS*
Kemper, A. F., Moritz, B., Freericks, J. K., Devereaux, T. P.
2013; 15
 - **Measurement of Coherent Polarons in the Strongly Coupled Antiferromagnetically Ordered Iron-Chalcogenide Fe_{1.02}Te using Angle-Resolved Photoemission Spectroscopy** *PHYSICAL REVIEW LETTERS*
Liu, Z. K., He, R., Lu, D. H., Yi, M., Chen, Y. L., Hashimoto, M., Moore, R. G., Mo, S., Nowadnick, E. A., Hu, J., Liu, T. J., Mao, Z. Q., Devereaux, et al
2013; 110 (3)
 - **Alternative route to charge density wave formation in multiband systems** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Eiter, H., Lavagnini, M., Hackl, R., Nowadnick, E. A., Kemper, A. F., Devereaux, T. P., Chu, J., Analytis, J. G., Fisher, I. R., Degiorgi, L.
2013; 110 (1): 64-69
 - **Competition Between Antiferromagnetic and Charge-Density-Wave Order in the Half-Filled Hubbard-Holstein Model** *PHYSICAL REVIEW LETTERS*
Nowadnick, E. A., Johnston, S., Moritz, B., Scalettar, R. T., Devereaux, T. P.
2012; 109 (24)
 - **Uncovering selective excitations using the resonant profile of indirect inelastic x-ray scattering in correlated materials: observing two-magnon scattering and relation to the dynamical structure factor** *NEW JOURNAL OF PHYSICS*
Jia, C. J., Chen, C., Sorini, A. P., Moritz, B., Devereaux, T. P.
2012; 14
 - **X-ray Emission Spectroscopy of Cerium Across the gamma-alpha Volume Collapse Transition** *PHYSICAL REVIEW LETTERS*
Lipp, M. J., Sorini, A. P., Bradley, J., Maddox, B., Moore, K. T., Cynn, H., Devereaux, T. P., Xiao, Y., Chow, P., Evans, W. J.
2012; 109 (19)
 - **Phase competition in trisected superconducting dome** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Vishik, I. M., Hashimoto, M., He, R., LeeB, W., Schmitt, F., Lu, D., Moore, R. G., Zhang, C., Meevasana, W., Sasagawa, T., Uchida, S., Fujita, K., Ishida, et al
2012; 109 (45): 18332-18337
 - **Pulsed high harmonic generation of light due to pumped Bloch oscillations in noninteracting metals** *PHYSICA SCRIPTA*
Freericks, J. K., Liu, A. Y., Kemper, A. F., Devereaux, T. P.
2012; T151
 - **Quantum Dynamics of the Hubbard-Holstein Model in Equilibrium and Nonequilibrium: Application to Pump-Probe Phenomena** *PHYSICAL REVIEW LETTERS*

- De Filippis, G., Cataudella, V., Nowadnick, E. A., Devereaux, T. P., Mishchenko, A. S., Nagaosa, N.
2012; 109 (17)
- **Quasiparticle interference and the interplay between superconductivity and density wave order in the cuprates** *PHYSICAL REVIEW B*
Nowadnick, E. A., Moritz, B., Devereaux, T. P.
2012; 86 (13)
 - **Superconductivity distorted by the coexisting pseudogap in the antinodal region of Bi_{1.5}Pb_{0.55}Sr_{1.6}La_{0.4}CuO_{6+δ}: A photon-energy-dependent angle-resolved photoemission study** *PHYSICAL REVIEW B*
Hashimoto, M., He, R., Vishik, I. M., Schmitt, F., Moore, R. G., Lu, D. H., Yoshida, Y., Eisaki, H., Hussain, Z., Devereaux, T. P., Shen, Z.
2012; 86 (9)
 - **Phase fluctuations and the absence of topological defects in a photo-excited charge-ordered nickelate** *NATURE COMMUNICATIONS*
Lee, W. S., Chuang, Y. D., Moore, R. G., Zhu, Y., Patthey, L., Trigo, M., Lu, D. H., Kirchmann, P. S., Krupin, O., Yi, M., Langner, M., Huse, N., ROBINSON, et al
2012; 3
 - **Resonant enhancement of charge density wave diffraction in the rare-earth tritellurides** *PHYSICAL REVIEW B*
Lee, W. S., Sorini, A. P., Yi, M., Chuang, Y. D., Moritz, B., Yang, W. L., Chu, J., Kuo, H. H., Gonzalez, A. G., Fisher, I. R., Hussain, Z., Devereaux, T. P., Shen, et al
2012; 85 (15)
 - **Evidence for the Importance of Extended Coulomb Interactions and Forward Scattering in Cuprate Superconductors** *PHYSICAL REVIEW LETTERS*
Johnston, S., Vishik, I. M., Lee, W. S., Schmitt, F., Uchida, S., Fujita, K., Ishida, S., Nagaosa, N., Shen, Z. X., Devereaux, T. P.
2012; 108 (16)
 - **Phase transitions in spin-orbital models with spin-space anisotropies for iron pnictides: Monte Carlo simulations** *PHYSICAL REVIEW B*
Applegate, R., Singh, R. R., Chen, C., Devereaux, T. P.
2012; 85 (5)
 - **Investigation of particle-hole asymmetry in the cuprates via electronic Raman scattering** *PHYSICAL REVIEW B*
Moritz, B., Johnston, S., Devereaux, T. P., Muschler, B., PRESTEL, W., Hackl, R., Lambacher, M., Erb, A., Komiya, S., Ando, Y.
2011; 84 (23)
 - **Coincidence between energy gaps and Kohn anomalies in conventional superconductors** *PHYSICAL REVIEW B*
Johnston, S., Sorini, A. P., Moritz, B., Devereaux, T. P., Scalapino, D. J.
2011; 84 (17)
 - **Fidelity study of the superconducting phase diagram in the two-dimensional single-band Hubbard model** *PHYSICAL REVIEW B*
Jia, C. J., Moritz, B., Chen, C., Shastry, B. S., Devereaux, T. P.
2011; 84 (12)
 - **Polaronic metal in lightly doped high-T_c cuprates** *EPL*
Mishchenko, A. S., Nagaosa, N., Shen, K. M., Shen, Z., Zhou, X. J., Devereaux, T. P.
2011; 95 (5)
 - **Probing high-energy electronic excitations in NiO using inelastic neutron scattering** *PHYSICAL REVIEW B*
Kim, Y., Sorini, A. P., Stock, C., Perring, T. G., van den Brink, J., Devereaux, T. P.
2011; 84 (8)
 - **Resonant inelastic x-ray scattering studies of elementary excitations** *REVIEWS OF MODERN PHYSICS*
Ament, L. J., van Veenendaal, M., Devereaux, T. P., Hill, J. P., van den Brink, J.
2011; 83 (2)
 - **Anisotropic quasiparticle lifetimes in Fe-based superconductors** *PHYSICAL REVIEW B*
Kemper, A. F., Korshunov, M. M., Devereaux, T. P., Fry, J. N., Cheng, H., Hirschfeld, P. J.
2011; 83 (18)
 - **High-energy anomaly in Nd_{2-x}Ce_xCuO₄ investigated by angle-resolved photoemission spectroscopy and quantum Monte Carlo simulations** *PHYSICAL REVIEW B*
Schmitt, F., Moritz, B., Johnston, S., Mo, S., Hashimoto, M., Moore, R. G., Lu, D., Motoyama, E., Greven, M., Devereaux, T. P., Shen, Z.

2011; 83 (19)

- **Symmetry-breaking orbital anisotropy observed for detwinned Ba(Fe_{1-x}Cox)₂As₂ above the spin density wave transition** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Yi, M., Lu, D., Chu, J., Analytis, J. G., Sorini, A. P., Kemper, A. F., Moritz, B., Mo, S., Moore, R. G., Hashimoto, M., Lee, W., Hussain, Z., Devereaux, et al
2011; 108 (17): 6878-6883
- **Reaffirming the d(x₂-y₂) Superconducting Gap Using the Autocorrelation Angle-Resolved Photoemission Spectroscopy of Bi_{1.5}Pb_{0.55}Sr_{1.6}La_{0.4}CuO_{6+δ}** *PHYSICAL REVIEW LETTERS*
Hashimoto, M., He, R., Testaud, J. P., Meevasana, W., Moore, R. G., Lu, D. H., Yoshida, Y., Eisaki, H., Devereaux, T. P., Hussain, Z., Shen, Z.
2011; 106 (16)
- **Revealing the degree of magnetic frustration by non-magnetic impurities** *NEW JOURNAL OF PHYSICS*
Chen, C., Applegate, R., Moritz, B., Devereaux, T. P., Singh, R. R.
2011; 13
- **From a Single-Band Metal to a High-Temperature Superconductor via Two Thermal Phase Transitions** *SCIENCE*
He, R., Hashimoto, M., Karapetyan, H., Koralek, J. D., Hinton, J. P., Testaud, J. P., Nathan, V., Yoshida, Y., Yao, H., Tanaka, K., Meevasana, W., Moore, R. G., Lu, et al
2011; 331 (6024): 1579-1583
- **Theory of Two-Magnon Raman Scattering in Iron Pnictides and Chalcogenides** *PHYSICAL REVIEW LETTERS*
Chen, C., Jia, C. J., Kemper, A. F., Singh, R. R., Devereaux, T. P.
2011; 106 (6)
- **Numerical studies of photon-based spectroscopies on high-T_c superconductors** *COMPUTER PHYSICS COMMUNICATIONS*
Chen, C., Moritz, B., Jia, C. J., Johnston, S., Sorini, A. P., Lee, L., Ko, K., Devereaux, T. P.
2011; 182 (1): 106-108
- **Polaronic metal in lightly doped high-T_c cuprates** *Europhys. Lett.*
Mishchenko, A. S., Nagaosa, N., Shen, K. M., Shen, Z., Zhou, X. J., Devereaux, T. P.
2011; 95 (5)
- **Temporal response of nonequilibrium correlated electrons** *COMPUTER PHYSICS COMMUNICATIONS*
Moritz, B., Devereaux, T. P., Freericks, J. K.
2011; 182 (1): 109-111
- **Pinpointing gap minima in Ba(Fe_{0.94}Co_{0.06})₂As₂ via band-structure calculations and electronic Raman scattering** *PHYSICAL REVIEW B*
Mazin, I. I., Devereaux, T. P., Analytis, J. G., Chu, J., Fisher, I. R., Muschler, B., Hackl, R.
2010; 82 (18)
- **ARPES studies of cuprate Fermiology: superconductivity, pseudogap and quasiparticle dynamics** *NEW JOURNAL OF PHYSICS*
Vishik, I. M., Lee, W. S., He, R., Hashimoto, M., Hussain, Z., Devereaux, T. P., Shen, Z.
2010; 12
- **High-pressure evolution of Fe₂O₃ electronic structure revealed by x-ray absorption** *PHYSICAL REVIEW B*
Wang, S., Mao, W. L., Sorini, A. P., Chen, C., Devereaux, T. P., Ding, Y., Xiao, Y., Chow, P., Hiraoka, N., Ishii, H., Cai, Y. Q., Kao, C.
2010; 82 (14)
- **Unraveling the Nature of Charge Excitations in La₂CuO₄ with Momentum-Resolved Cu K-Edge Resonant Inelastic X-Ray Scattering** *PHYSICAL REVIEW LETTERS*
Chen, C., Moritz, B., Vernay, F., Hancock, J. N., Johnston, S., Jia, C. J., Chabot-Couture, G., Greven, M., Elfimov, I., Sawatzky, G. A., Devereaux, T. P.
2010; 105 (17)
- **Effect of disorder on the electronic Raman scattering in the superconducting state of iron pnictides** *PHYSICAL REVIEW B*
Boyd, G. R., Hirschfeld, P. J., Devereaux, T. P.
2010; 82 (13)
- **Orbital order and spontaneous orthorhombicity in iron pnictides** *PHYSICAL REVIEW B*
Chen, C., Maciejko, J., Sorini, A. P., Moritz, B., Singh, R. R., Devereaux, T. P.
2010; 82 (10)

- **Systematic study of electron-phonon coupling to oxygen modes across the cuprates** *PHYSICAL REVIEW B*
Johnston, S., Vernay, F., Moritz, B., Shen, Z., Nagaosa, N., Zaanen, J., Devereaux, T. P.
2010; 82 (6)
- **Insights on the cuprate high energy anomaly observed in ARPES** *International Workshop on Strong Correlations and Angle-Resolved Photoemission Spectroscopy*
Moritz, B., Johnston, S., Devereaux, T. P.
ELSEVIER SCIENCE BV.2010: 31–34
- **Density of states modulations from oxygen phonons in d-wave superconductors: Reconciling angle-resolved photoemission spectroscopy and scanning tunneling microscopy** *PHYSICAL REVIEW B*
Johnston, S., Devereaux, T. P.
2010; 81 (21)
- **Particle-hole symmetry breaking in the pseudogap state of Bi2201** *NATURE PHYSICS*
Hashimoto, M., He, R., Tanaka, K., Testaud, J., Meevasana, W., Moore, R. G., Lu, D., Yao, H., Yoshida, Y., Eisaki, H., Devereaux, T. P., Hussain, Z., Shen, et al
2010; 6 (6): 414-418
- **Doping-Dependent Nodal Fermi Velocity of the High-Temperature Superconductor Bi2Sr2CaCu2O8+delta Revealed Using High-Resolution Angle-Resolved Photoemission Spectroscopy** *PHYSICAL REVIEW LETTERS*
Vishik, I. M., Lee, W. S., Schmitt, F., Moritz, B., Sasagawa, T., Uchida, S., Fujita, K., Ishida, S., Zhang, C., Devereaux, T. P., Shen, Z. X.
2010; 104 (20)
- **Time-resolved photoemission of correlated electrons driven out of equilibrium** *PHYSICAL REVIEW B*
Moritz, B., Devereaux, T. P., Freericks, J. K.
2010; 81 (16)
- **Strong energy-momentum dispersion of phonon-dressed carriers in the lightly doped band insulator SrTiO3** *NEW JOURNAL OF PHYSICS*
Meevasana, W., Zhou, X. J., Moritz, B., Chen, C., He, R. H., Fujimori, S., Lu, D. H., Mo, S., Moore, R. G., Baumberger, F., Devereaux, T. P., van der Marel, D., Nagaosa, et al
2010; 12
- **Material and Doping Dependence of the Nodal and Antinodal Dispersion Renormalizations in Single- and Multilayer Cuprates** *ADVANCES IN CONDENSED MATTER PHYSICS*
Johnston, S., Lee, W. S., Chen, Y., Nowadnick, E. A., Moritz, B., Shen, Z., Devereaux, T. P.
2010
- **Finite-temperature spin dynamics and phase transitions in spin-orbital models** *PHYSICAL REVIEW B*
Chen, C., Moritz, B., van den Brink, J., Devereaux, T. P., Singh, R. R.
2009; 80 (18)
- **Band- and momentum-dependent electron dynamics in superconducting Ba(Fe1-xCox)(2)As-2 as seen via electronic Raman scattering** *PHYSICAL REVIEW B*
Muschler, B., PRESTEL, W., Hackl, R., Devereaux, T. P., Analytis, J. G., Chu, J., Fisher, I. R.
2009; 80 (18)
- **Collective d-wave exciton modes in the calculated Raman spectrum of Fe-based superconductors** *PHYSICAL REVIEW B*
Scalapino, D. J., Devereaux, T. P.
2009; 80 (14)
- **A momentum-dependent perspective on quasiparticle interference in Bi2Sr2CaCu2O8+delta** *NATURE PHYSICS*
Vishik, I. M., Nowadnick, E. A., Lee, W. S., Shen, Z. X., Moritz, B., Devereaux, T. P., Tanaka, K., Sasagawa, T., Fujii, T.
2009; 5 (10): 718-721
- **Effect of strong correlations on the high energy anomaly in hole- and electron-doped high-T-c superconductors** *NEW JOURNAL OF PHYSICS*
Moritz, B., Schmitt, F., Meevasana, W., Johnston, S., Motoyama, E. M., Greven, M., Lu, D. H., Kim, C., Scalettar, R. T., Shen, Z., Devereaux, T. P.
2009; 11
- **Resonant inelastic x-ray scattering in electronically quasi-zero-dimensional CuB2O4** *PHYSICAL REVIEW B*
Hancock, J. N., Chabot-Couture, G., Li, Y., Petrakovskii, G. A., Ishii, K., Jarrige, I., Mizuki, J., Devereaux, T. P., Greven, M.

2009; 80 (9)

- **Dependence of Band-Renormalization Effects on the Number of Copper Oxide Layers in TI-Based Copper Oxide Superconductors Revealed by Angle-Resolved Photoemission Spectroscopy** *PHYSICAL REVIEW LETTERS*

Lee, W. S., Tanaka, K., Vishik, I. M., Lu, D. H., Moore, R. G., Eisaki, H., Iyo, A., Devereaux, T. P., Shen, Z. X.

2009; 103 (6)

- **Unusual Layer-Dependent Charge Distribution, Collective Mode Coupling, and Superconductivity in Multilayer Cuprate Ba₂Ca₃Cu₄O₈F₂** *PHYSICAL REVIEW LETTERS*

Chen, Y., Iyo, A., Yang, W., Ino, A., Arita, M., Johnston, S., Eisaki, H., Namatame, H., Taniguchi, M., Devereaux, T. P., Hussain, Z., Shen, Z.

2009; 103 (3)

- **Evidence for weak electronic correlations in iron pnictides** *PHYSICAL REVIEW B*

Yang, W. L., Sorini, A. P., Chen, C., Moritz, B., Lee, W., Vernay, F., Olalde-Velasco, P., Denlinger, J. D., Delley, B., Chu, J., Analytis, J. G., Fisher, I. R., Ren, et al

2009; 80 (1)

- **Impact of an oxygen dopant in Bi₂Sr₂CaCu₂O_{8+δ}** *EPL*

Johnston, S., Vernay, F., Devereaux, T. P.

2009; 86 (3)

- **Probing the pairing symmetry of the iron pnictides with electronic Raman scattering** *PHYSICAL REVIEW B*

Boyd, G. R., Devereaux, T. P., Hirschfeld, P. J., Mishra, V., Scalapino, D. J.

2009; 79 (17)

- **High-resolution angle-resolved photoemission studies of quasiparticle dynamics in graphite** *PHYSICAL REVIEW B*

Leem, C. S., Kim, C., Park, S. R., Kim, M., Choi, H. J., Kim, C., Kim, B. J., Johnston, S., DEVEREAUX, T., Ohta, T., Bostwick, A., Rotenberg, E.

2009; 79 (12)

- **Photoemission kinks and phonons in cuprates** *NATURE*

Reznik, D., Sangiovanni, G., Gunnarsson, O., Devereaux, T. P.

2008; 455 (7213): E6-E7

- **Uncovering a pressure-tuned electronic transition in Bi_{1.98}Sr_{2.06}Y_{0.68}Cu₂O_{8+δ} using Raman scattering and x-ray diffraction** *PHYSICAL REVIEW LETTERS*

Cuk, T., Struzhkin, V. V., Devereaux, T. P., Goncharov, A. F., Kendziora, C. A., Eisaki, H., Mao, H., Shen, Z.

2008; 100 (21)

- **Charge dynamics of doped holes in high T_c cuprate superconductors: A clue from optical conductivity** *PHYSICAL REVIEW LETTERS*

Mishchenko, A. S., Nagaosa, N., Shen, Z., De Filippis, G., Cataudella, V., Devereaux, T. P., Bernhard, C., Kim, K. W., Zaanen, J.

2008; 100 (16)

- **Superconductivity-induced self-energy evolution of the nodal electron of optimally doped Bi₂Sr₂Ca_{0.92}Y_{0.08}Cu₂O_{8+δ}** *PHYSICAL REVIEW B*

Lee, W. S., Meevasana, W., Johnston, S., Lu, D. H., Vishik, I. M., Moore, R. G., Eisaki, H., Kaneko, N., Devereaux, T. P., Shen, Z. X.

2008; 77 (14)

- **CuK-edge resonant inelastic x-ray scattering in edge-sharing cuprates** *PHYSICAL REVIEW B*

Vernay, F., Moritz, B., Elfimov, I. S., Geck, J., Hawthorn, D., Devereaux, T. P., Sawatzky, G. A.

2008; 77 (10)

- **Polaronic Behavior and Electron-Phonon Coupling in High Temperature Cuprate Superconductors as Revealed from Angle-Resolved Photoemission Spectroscopy** *Treatise of High Temperature Superconductivity*

Zhou, X. J., Cuk, T., Devereaux, T. P., Nagaosa, N., Shen, Z.

2008

- **Polaron coherence condensation as the mechanism for colossal magnetoresistance in layered manganites** *PHYSICAL REVIEW B*

Mannella, N., Yang, W. L., Tanaka, K., Zhou, X. J., Zheng, H., Mitchell, J. F., Zaanen, J., Devereaux, T. P., Nagaosa, N., Hussain, Z., Shen, Z.

2007; 76 (23)

- **Abrupt onset of a second energy gap at the superconducting transition of underdoped Bi₂₂₁₂** *NATURE*

Lee, W. S., Vishik, I. M., Tanaka, K., Lu, D. H., Sasagawa, T., Nagaosa, N., Devereaux, T. P., Hussain, Z., Shen, Z.

2007; 450 (7166): 81-84

- **Hierarchy of multiple many-body interaction scales in high-temperature superconductors** *PHYSICAL REVIEW B*
Meevasana, W., Zhou, X. J., Sahrakorpi, S., Lee, W. S., Yang, W. L., Tanaka, K., Mannella, N., Yoshida, T., Lu, D. H., Chen, Y. L., He, R. H., Lin, H., Komiya, et al
2007; 75 (17)
- **Aspects of electron-phonon self-energy revealed from angle-resolved photoemission spectroscopy** *PHYSICAL REVIEW B*
Lee, W. S., Johnston, S., Devereaux, T. P., Shen, Z.
2007; 75 (19)
- **Raman scattering for triangular lattices spin-1/2 Heisenberg antiferromagnets** *International Conference on Highly Frustrated Magnetism*
Vernay, F., Devereaux, T. P., Gingras, M. J.
IOP PUBLISHING LTD.2007
- **Momentum-dependent light scattering in insulating cuprates** *PHYSICAL REVIEW B*
Vernay, F. H., Gingras, M. J., Devereaux, T. P.
2007; 75 (2)
- **Band Renormalization Effect in Bi2Sr2Ca2Cu3O10+#** *High Tc Superconductors and Related Transition Metal Oxides*
Lee, W. S., Lu, D. H., Yang, W. L., Cuk, T., Shen, K. M., Zhou, X. J., Meevasana, W., Lin, C. T., Shimoyama J.-i., Devereaux, T. P., Shen, Z. X.
Springer Berlin Heidelberg.2007: 227–236
- **Inelastic light scattering from correlated electrons** *REVIEWS OF MODERN PHYSICS*
Devereaux, T. P., Hackl, R.
2007; 79 (1): 175-233
- **Distinct Fermi-momentum-dependent energy gaps in deeply underdoped Bi2212** *SCIENCE*
Tanaka, K., Lee, W. S., Lu, D. H., Fujimori, A., Fujii, T., Risdiana, Terasaki, I., Scalapino, D. J., Devereaux, T. P., Hussain, Z., Shen, Z.
2006; 314 (5807): 1910-1913
- **Anomalous Fermi-surface dependent pairing in a self-doped high-T-c superconductor** *PHYSICAL REVIEW LETTERS*
Chen, Y., Iyo, A., Yang, W., Zhou, X., Lu, D., Eisaki, H., Devereaux, T. P., Hussain, Z., Shen, Z.
2006; 97 (23)
- **Calculation of overdamped c-axis charge dynamics and the coupling to polar phonons in cuprate superconductors** *PHYSICAL REVIEW B*
Meevasana, W., Devereaux, T. P., Nagaosa, N., Shen, Z., Zaanen, J.
2006; 74 (17)
- **Effects of pairing potential scattering on Fourier-transformed inelastic tunneling spectra of high-T-c cuprate superconductors with bosonic modes** *PHYSICAL REVIEW LETTERS*
Zhu, J., McElroy, K., Lee, J., Devereaux, T. P., Si, Q., Davis, J. C., Balatsky, A. V.
2006; 97 (17)
- **Sum rules for inelastic light scattering in the Hubbard model** *International Conference on Strongly Correlated Electron Systems (SCES 05)*
Freericks, J. K., Devereaux, T. P.
ELSEVIER SCIENCE BV.2006: 650–653
- **Doping dependence of the coupling of electrons to bosonic modes in the single-layer high-temperature Bi2Sr2CuO6 superconductor** *PHYSICAL REVIEW LETTERS*
Meevasana, W., Ingle, N. J., Lu, D. H., Shi, J. R., Baumberger, F., Shen, K. M., Lee, W. S., Cuk, T., Eisaki, H., Devereaux, T. P., Nagaosa, N., Zaanen, J., Shen, et al
2006; 96 (15)
- **Resonance mode in B-1g Raman scattering: A way to distinguish between spin-fluctuation and phonon-mediated d-wave superconductivity** *PHYSICAL REVIEW B*
Chubukov, A. V., Devereaux, T. P., Klein, M. V.
2006; 73 (9)
- **Resonant enhancement of electronic Raman scattering** *7th International Conference on Spectroscopies in Novel Superconductors (SNS 04)*
Shvaika, A. M., Vorobyov, O., Freericks, J. K., Devereaux, T. P.

PERGAMON-ELSEVIER SCIENCE LTD.2006: 336–39

- **Fourier-transformed local density of states and tunneling into a d-wave superconductor with bosonic modes** *PHYSICAL REVIEW B*
Zhu, J. X., Balatsky, A. V., Devereaux, T. P., Si, Q. M., Lee, J., McElroy, K., Davis, J. C.
2006; 73 (1)
- **Nodal quasiparticle in pseudogapped colossal magnetoresistive manganites** *NATURE*
Mannella, N., Yang, W. L., Zhou, X. J., Zheng, H., Mitchell, J. F., Zaanen, J., Devereaux, T. P., Nagaosa, N., Hussain, Z., Shen, Z. X.
2005; 438 (7067): 474-478
- **Optical sum rules that relate to the potential energy of strongly correlated systems** *PHYSICAL REVIEW LETTERS*
Freericks, J. K., Devereaux, T. P., Moraghebi, M., COOPER, S. L.
2005; 94 (21)
- **Resonant electronic Raman scattering near a quantum critical point** *International Conference on Strongly Correlated Electron Systems (SCES 04)*
Shvaika, A. M., Vorobyov, O., Freericks, J. K., Devereaux, T. P.
ELSEVIER SCIENCE BV.2005: 705–707
- **A review of electron-phonon coupling seen in the high-T-c superconductors by angle-resolved photoemission studies (ARPES)** *PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS*
Cuk, T., Lu, D. H., Zhou, X. J., Shen, Z. X., Devereaux, T. P., Nagaosa, N.
2005; 242 (1): 11-29
- **Review of Superconductivity in Complex Systems. Structure and Bonding, 114** *J. Am. Chem. Soc.*
Devereaux, T. P.
2005; 128 (23): 7699
- **Electronic Raman scattering in correlated materials: A treatment of nonresonant, mixed, and resonant scattering using dynamical mean-field theory** *PHYSICAL REVIEW B*
Shvaika, A. M., Vorobyov, O., Freericks, J. K., Devereaux, T. P.
2005; 71 (4)
- **Interplay between the pseudogap and superconductivity in underdoped HgBa₂CuO_{4-δ} single crystals** *PHYSICAL REVIEW B*
Gallais, Y., Sacuto, A., Devereaux, T. P., Colson, D.
2005; 71 (1)
- **Resonant enhancement of inelastic light scattering in strongly correlated materials** *PHYSICAL REVIEW LETTERS*
Shvaika, A. M., Vorobyov, O., Freericks, J. K., Devereaux, T. P.
2004; 93 (13)
- **Coupling of the B-1g phonon to the antinodal electronic states of Bi₂Sr₂Ca_{0.92}Y_{0.08}Cu₂O_{8-δ}** *PHYSICAL REVIEW LETTERS*
Cuk, T., Baumberger, F., Lu, D. H., Ingle, N., Zhou, X. J., Eisaki, H., Kaneko, N., Hussain, Z., Devereaux, T. P., Nagaosa, N., Shen, Z. X.
2004; 93 (11)
- **Anisotropic electron-phonon interaction in the cuprates** *PHYSICAL REVIEW LETTERS*
Devereaux, T. P., Cuk, T., Shen, Z. X., Nagaosa, N.
2004; 93 (11)
- **Critical current peaks at 3B(Phi) in superconductors with columnar defects: Recrystallizing the interstitial glass** *PHYSICAL REVIEW LETTERS*
Gallamore, M. E., McCormack, G. E., Devereaux, T. P.
2004; 93 (6)
- **Optical symmetries and anisotropic transport in high-T-c superconductors** *PHYSICAL REVIEW B*
Devereaux, T. P.
2003; 68 (9)
- **Inelastic x-ray scattering as a probe of electronic correlations** *PHYSICAL REVIEW B*
Devereaux, T. P., McCormack, G. E., Freericks, J. K.
2003; 68 (7)
- **Nonresonant inelastic light scattering in the Hubbard model** *PHYSICAL REVIEW B*

- Freericks, J. K., Devereaux, T. P., Bulla, R., Pruschke, T.
2003; 67 (15)
- **Inelastic X-ray scattering in correlated Mott insulators** *PHYSICAL REVIEW LETTERS*
Devereaux, T. P., McCormack, G. E., Freericks, J. K.
2003; 90 (6)
 - **Inelastic light scattering and the correlated metal-insulator transition** *International Conference on Strongly Correlated Electron Systems (SCES 2002)*
Freericks, J. K., Devereaux, T. P., Bulla, R.
WYDAWNICTWO UNIWERSYTETU JAGIELLONSKIEGO.2003: 737–48
 - **Inelastic light scattering and the correlated metal-insulator transition** *NATO Advanced Research Workshop on Concepts in Electron Correlation*
Freericks, J. K., Devereaux, T. P., Bulla, R.
SPRINGER.2003: 115–122
 - **Observation of an unconventional metal-insulator transition in overdoped CuO₂ compounds** *PHYSICAL REVIEW LETTERS*
Venturini, F., Opel, M., Devereaux, T. P., Freericks, J. K., Tutto, I., Revaz, B., Walker, E., Berger, H., Forro, L., Hackl, R.
2002; 89 (10)
 - **Exact theory for electronic Raman scattering of correlated materials in infinite dimensions** *PHYSICAL REVIEW B*
Freericks, J. K., Devereaux, T. P., Bulla, R.
2001; 64 (23)
 - **B-1g Raman scattering through a quantum critical point** *12th School on Phase Transitions and Critical Phenomena to the Scientific Community*
Freericks, J. K., Devereaux, T. P., Bulla, R.
WYDAWNICTWO UNIWERSYTETU JAGIELLONSKIEGO.2001: 3219–31
 - **Raman scattering through a metal-insulator transition** *PHYSICAL REVIEW B*
Freericks, J. K., Devereaux, T. P.
2001; 64 (12)
 - **Non-Resonant Raman Scattering Through a Metal-Insulator Transition: An Exact Analysis of the Falicov-Kimball Model** *Proceedings of the Workshop on Soft Matter Theory*
Freericks, J. K., Devereaux, T. P.
2001: 149–60
 - **Collective spin fluctuation mode and Raman scattering in superconducting cuprates** *PHYSICAL REVIEW B*
Venturini, F., Michelucci, U., Devereaux, T. P., Kampf, A. P.
2000; 62 (22): 15204-15207
 - **A consistent picture of electronic Raman scattering and infrared conductivity in the cuprates** *International Conference on Materials and Mechanisms of Superconductivity High Temperature Superconductors VI*
Devereaux, T. P., Kampf, A. P.
ELSEVIER SCIENCE BV.2000: 2229–2230
 - **The role of splayed disorder and channel flow on the dynamics of driven 3D vortices** *International Conference on Materials and Mechanisms of Superconductivity High Temperature Superconductors VI*
Palmer, C. M., Devereaux, T. P.
ELSEVIER SCIENCE BV.2000: 1219–1220
 - **Unconventional electronic Raman spectra of borocarbide superconductors** *International Conference on Materials and Mechanisms of Superconductivity High Temperature Superconductors VI*
Yang, I. S., Klein, M. V., Devereaux, T. P., Fisher, I. R., Canfield, P. C.
ELSEVIER SCIENCE BV.2000: 2259–2260
 - **Collective modes and electronic Raman scattering in the cuprates** *International Conference on Materials and Mechanisms of Superconductivity High Temperature Superconductors VI*
Venturini, F., Michelucci, U., Devereaux, T. P., Kampf, A. P.
ELSEVIER SCIENCE BV.2000: 2265–2266
 - **Contribution to the quasiparticle inelastic lifetime from paramagnons in disordered superconductors** *PHYSICAL REVIEW B*

Devereaux, T. P.

2000; 62 (1): 682-685

- **Consistent picture of electronic Raman scattering and infrared conductivity in the cuprates** *PHYSICAL REVIEW B*
Devereaux, T. P., Kampf, A. P.
2000; 61 (2): 1490-1494
- **Physical origin of the buckling in CuO₂: Electron-phonon coupling and Raman spectra** *PHYSICAL REVIEW B*
Opel, M., Hackl, R., Devereaux, T. P., Virosztek, A., Zawadowski, A.
1999; 60 (13): 9836-9844
- **Neutron scattering and the B_{1g} phonon in the cuprates** *PHYSICAL REVIEW B*
Devereaux, T. P., Virosztek, A., Zawadowski, A.
1999; 59 (22): 14618-14623
- **Theory of electronic Raman scattering in nearly antiferromagnetic Fermi liquids** *PHYSICAL REVIEW B*
Devereaux, T. P., Kampf, A. P.
1999; 59 (9): 6411-6420
- **Neutron Scattering and the B_{1g} Phonon in the Cuprates** *Phys. Review B*
Devereaux, T. P., Virosztek, A., Zawadowski, A.
1999; 59: 14618
- **Theory of Raman Scattering in a Nearly Antiferromagnetic Fermi Liquid** *Phys. Review B*
Devereaux, T. P., Kampf, A. P.
1999: 6411
- **Electronic Raman scattering in nearly antiferromagnetic Fermi liquids** *International Conference on Spectroscopies in Novel Superconductors (SNS'97)*
Devereaux, T. P., Kampf, A. P.
PERGAMON-ELSEVIER SCIENCE LTD.1998: 1972-75
- **Evidence for magnetic pseudoscaling in overdoped La_{2-x}Sr_xCuO₄** *PHYSICAL REVIEW B*
Naeini, J. G., Chen, X. K., Hewitt, K. C., Irwin, J. C., Devereaux, T. P., Okuya, M., Kimura, T., Kishio, K.
1998; 57 (18): R11077-R11080
- **Enhanced electron-phonon coupling and its irrelevance to high T_c superconductivity** *SOLID STATE COMMUNICATIONS*
Devereaux, T. P., Virosztek, A., Zawadowski, A., Opel, M., Muller, P. F., Hoffmann, C., Philipp, R., Nemetschek, R., Hackl, R., Erb, A., Walker, E., Berger, H., Forro, et al
1998; 108 (7): 407-411
- **Raman Scattering in a Nearly Antiferromagnetic Fermi Liquid** *Journal of Physics and Chemistry Solids*
Devereaux, T., Kampf, A. P.
1998; 59 (10-12): 1972-1975
- **Extended impurity potential in a d(x²-y²) superconductor** *PHYSICAL REVIEW B*
Kampf, A. P., Devereaux, T. P.
1997; 56 (5): 2360-2363
- **Raman scattering in cuprate superconductors** *INTERNATIONAL JOURNAL OF MODERN PHYSICS B*
Devereaux, T. P., Kampf, A. P.
1997; 11 (18): 2093-2118
- **Superconducting gap anisotropy vs doping level in high-T_c cuprates - Comment** *PHYSICAL REVIEW LETTERS*
Hewitt, K. C., Devereaux, T. P., Chen, X. K., Wang, X. Z., Naeini, J. G., Curzon, A. E., Irwin, J. C., Martin, A.
1997; 78 (25): 4891-4891
- **Comment on "Superconducting Gap Anisotropy vs. Doping Level in High-T_c Cuprates** *Phys. Rev. Lett.*
Hewitt, K. C., Devereaux, T. P., Chen, X. K., Wang, X., Naeini, J. G., Curzon, A. E., Irwin, J. C.
1997; 78: 4891

- **Electronic Raman scattering in superconductors as a probe of anisotropic electron pairing (vol 51, pg 16 336, 1995) *PHYSICAL REVIEW B***
Devereaux, T. P., Einzel, D.
1996; 54 (21): 15547-15547
- **Multiband electronic Raman scattering in bilayer superconductors *PHYSICAL REVIEW B***
Devereaux, T. P., Virosztek, A., Zawadowski, A.
1996; 54 (17): 12523-12534
- **Magnetic pair breaking in disordered superconducting films *PHYSICAL REVIEW B***
Devereaux, T. P., Belitz, D.
1996; 53 (1): 359-364
- **Role of symmetry in Raman spectroscopy of unconventional superconductors *Conference on Spectroscopic Studies of Superconductors***
Devereaux, T. P.
SPIE - INT SOC OPTICAL ENGINEERING.1996: 230-241
- **Phase diagram for splay glass superconductivity *PHYSICAL REVIEW LETTERS***
Devereaux, T. P., Scalettar, R. T., Zimanyi, G. T., Moon, K., Loh, E.
1995; 75 (26): 4768-4771
- **Study of k-dependent electronic properties in cuprate superconductors using Raman spectroscopy *Conference on Spectroscopies in Novel Superconductors***
Stadlober, B., Krug, G., Nemetschek, R., Opel, M., Hackl, R., Einzel, D., Schuster, C., Devereaux, T. P., Forro, L., Cobb, J. L., Markert, J. T., Neumeier, J. J.
PERGAMON-ELSEVIER SCIENCE LTD.1995: 1841-42
- **Raman scattering in disordered unconventional superconductors *Conference on Spectroscopies in Novel Superconductors***
Devereaux, T. P.
PERGAMON-ELSEVIER SCIENCE LTD.1995: 1711-12
- **ELECTRONIC RAMAN-SCATTERING AS A PROBE OF ANISOTROPIC ELECTRON PAIRING *University-of-Miami Workshop on High-Temperature Superconductivity - Physical Properties and Mechanisms***
Devereaux, T. P.
SPRINGER/PLENUM PUBLISHERS.1995: 421-24
- **ELECTRONIC RAMAN-SCATTERING IN SUPERCONDUCTORS AS A PROBE OF ANISOTROPIC ELECTRON PAIRING *PHYSICAL REVIEW B***
Devereaux, T. P., Einzel, D.
1995; 51 (22): 16336-16357
- **THEORY OF ELECTRONIC RAMAN-SCATTERING IN DISORDERED UNCONVENTIONAL SUPERCONDUCTORS *PHYSICAL REVIEW LETTERS***
Devereaux, T. P.
1995; 74 (21): 4313-4316
- **EFFECT OF COMPETITION BETWEEN POINT AND COLUMNAR DISORDER ON THE BEHAVIOR OF FLUX LINES IN (1+1) DIMENSIONS (VOL 50, PG 13625, 1994) *PHYSICAL REVIEW B***
Devereaux, T. P., Scalettar, R. T., Zimanyi, G. T.
1995; 51 (13): 8689-8689
- **Erratum: Effect of competition between point and columnar disorder on the behavior of flux lines in (1+1) dimensions *Physical review. B, Condensed matter***
Devereaux, Scalettar, Zimanyi
1995; 51 (13): 8689-?
- **CHARGE-TRANSFER FLUCTUATION, D-WAVE SUPERCONDUCTIVITY, AND THE B-1G RAMAN PHONON IN CUPRATES *PHYSICAL REVIEW B***
Devereaux, T. P., Virosztek, A., Zawadowski, A.
1995; 51 (1): 505-514
- **ELECTRONIC RAMAN-SCATTERING IN HIGH-T-C SUPERCONDUCTORS *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS***
Devereaux, T. P., Einzel, D., Hackl, R., Krug, G., Nemetschek, R., Stadlober, B.
1994; 235: 57-58

- **EFFECT OF COMPETITION BETWEEN POINT AND COLUMNAR DISORDER ON THE BEHAVIOR OF FLUX LINES IN (1+1)-DIMENSIONS** *PHYSICAL REVIEW B*
Devereaux, T. P., Scalettar, R. T., Zimanyi, G. T.
1994; 50 (18): 13625-13631
- **SYMMETRY DEPENDENCE OF PHONON LINE-SHAPES IN SUPERCONDUCTORS WITH ANISOTROPIC GAPS** *PHYSICAL REVIEW B*
Devereaux, T. P.
1994; 50 (14): 10287-10293
- **ELECTRONIC RAMAN-SCATTERING IN HIGH-T(C) SUPERCONDUCTORS - A PROBE OF D(X₂-Y₂) PAIRING - REPLY** *PHYSICAL REVIEW LETTERS*
Devereaux, T. P., Einzel, D., Stadlober, B., Hackl, R.
1994; 72 (20): 3291-3291
- **Devereaux et al. reply.** *Physical review letters*
Devereaux, Einzel, Stadlober, Hackl
1994; 72 (20): 3291-?
- **GAUGE-INVARIANT RESPONSE OF A SUPERCONDUCTOR WITH DX₂(2)-Y₂(2) SYMMETRY - APPLICATION TO ELECTRONIC RAMAN-SCATTERING** *20th International Conference on Low Temperature Physics*
Devereaux, T. P., Einzel, D.
ELSEVIER SCIENCE BV.1994: 1531-1532
- **ELECTRONIC RAMAN-SCATTERING IN HIGH-T(C) SUPERCONDUCTORS - A PROBE OF DX₂-Y₂ PAIRING** *PHYSICAL REVIEW LETTERS*
Devereaux, T. P., Einzel, D., Stadlober, B., Hackl, R., LEACH, D. H., Neumeier, J. J.
1994; 72 (3): 396-399
- **Devereaux et al. Reply** *Physical Review Letters*
Devereaux, T. P., Einzel, D., Stadlober, B., Hackl, R.
1994; 72 (20): 3291
- **Investigation of the pairing symmetry in high-T-c superconductors by electronic Raman scattering** *14th International Conference on Raman Spectroscopy*
Hack, R., Stadlober, B., Nemetschek, R., Krug, G., Einzel, D., Devereaux, T. P., Muller, P., Neumeier, J. J., Winzer, K.
JOHN WILEY & SONS LTD.1994: 326-327
- **Electronic Investigation of the Pairing Symmetry in High-Tc Superconductors by Electronic Raman Scattering** *Proceedings of the Fourteenth International Conference on Raman Spectroscopy*
Hackl, R., Stadlober, B., Nemetschek, R., Krug, G., Einzel, D., Devereaux, T. P., Muller, P., Neumeier, J. J., Winzer, K.
1994: 327
- **MULTIPLE ANDREEV SCATTERING IN SUPERCONDUCTOR NORMAL-METAL SUPERCONDUCTOR JUNCTIONS AS A TEST FOR ANISOTROPIC ELECTRON PAIRING** *PHYSICAL REVIEW B*
Devereaux, T. P., Fulde, P.
1993; 47 (21): 14638-14641
- **THEORY FOR THE EFFECTS OF IMPURITIES ON THE RAMAN-SPECTRA OF SUPERCONDUCTORS .2. TEMPERATURE-DEPENDENCE AND INFLUENCE OF FINAL-STATE INTERACTIONS** *PHYSICAL REVIEW B*
Devereaux, T. P.
1993; 47 (9): 5230-5238
- **NUCLEAR-SPIN RELAXATION IN STRONGLY DISORDERED SUPERCONDUCTORS** *ZEITSCHRIFT FUR PHYSIK B-CONDENSED MATTER*
Devereaux, T. P.
1993; 90 (1): 65-68
- **THEORY FOR THE EFFECTS OF IMPURITIES ON THE RAMAN-SPECTRA OF SUPERCONDUCTORS** *PHYSICAL REVIEW B*
Devereaux, T. P.
1992; 45 (22): 12965-12975
- **QUASI-PARTICLE INELASTIC LIFETIMES IN DISORDERED SUPERCONDUCTING FILMS** *PHYSICAL REVIEW B*
Devereaux, T. P., Belitz, D.

1991; 44 (9): 4587-4600

- **POWER-LAW TEMPERATURE-DEPENDENCE OF THE INELASTIC-SCATTERING RATE IN DISORDERED SUPERCONDUCTORS** *PHYSICAL REVIEW B*

Devereaux, T. P., Belitz, D.

1991; 43 (4): 3736-3739

- **Quasiparticle Lifetimes in Disordered Superconducting Film** *Phys. Review B*

Devereaux, T. P., Belitz, D.

1991; 44 (9): 4587-4600

- **DISORDER ENHANCEMENT OF QUASIPARTICLE LIFETIMES IN SUPERCONDUCTORS** *JOURNAL OF LOW TEMPERATURE PHYSICS*

Devereaux, T. P., Belitz, D.

1989; 77 (5-6): 319-326

- **ELECTROMAGNETIC RESPONSE OF DISORDERED SUPERCONDUCTORS** *PHYSICAL REVIEW B*

Belitz, D., DESOUZAMACHADO, S., Devereaux, T. P., Hoard, D. W.

1989; 39 (4): 2072-2083