

PUBLICATIONS

Books:

“Frontiers of 4d- and 5d- Transition Metal Oxides”, Gang Cao and Lance E. De Long, *World Scientific* ISBN: 978-981-4374-859 328 pp June 2013

Published Articles:

2017

1. “New evidence for a magnetic state in double-perovskite iridates with $\text{Ir}^{5+}(5d^4)$ ions”, J. Terzic, H. Zhang, Feng Ye, P. Schlottmann, H. D. Zhao, L. DeLong, S. J. Yuan and G. Cao, to be published in *Phys. Rev. B.*, 2017
2. “Optical signatures of spin-orbit exciton in bandwidth-controlled Sr_2IrO_4 epitaxial films via high-concentration Ca and Ba doping”, M. Souri, B. H. Kim, J. H. Gruenewald, J. G. Connell, J. Thompson, J. Nichols, J. Terzic, B. I. Min, G. Cao, J. W. Brill, and A. Seo, *Phys. Rev. B* **95**, 235125 (2017)
3. “Electron Doping Evolution of Magnetic Excitations and Spin-Orbit Excitons in $(\text{Sr}_{1-x}\text{La}_x)_3\text{Ir}_2\text{O}_7$ ”, Xingye Lu, D. E. McNally, M. Moretti Sala, J. Terzic, M. H. Upton, D. Casa, G. Cao, and T. Schmitt, *Phys. Rev. Lett.* **118**, 027202 (2017)
4. “Giant Spin Gap and Magnon Localization in a Disordered Heisenberg Antiferromagnet $\text{Sr}_2\text{Ir}_{1-x}\text{Ru}_x\text{O}_4$ ”, Yue Cao, Xuerong Liu, Wenhui Xu, Weiguo Yin, Derek Meyers, Jungho Kim, Diego Casa, Mary Upton, Thomas Gog, Tom Berlijn, Gonzalo Alvarez, Shujuan Yuan, Jasminka, Terzic, John M. Tranquada, John P. Hill, Gang Cao, Robert M. Konik, and M. P. M. Dean, *Phys. Rev. B.* **95** 121103 (2017)
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6. “Predicted electronic markers for polytypes of LaOBiS_2 examined via angular resolved photoemission spectroscopy”, Xiaoqing Zhou, Qihang Liu, J. A. Waugh, Haoxiang Li, T. Nummy, Xiuwen Zhang, Xiangde Zhu, Gang Cao, Alex Zunger and D. S. Dessau, *Phys. Rev. B* **95**, 075118 (2017)
7. “In-plane magnetic anisotropy of the $\text{Sr}_4\text{Ru}_3\text{O}_{10}$ nanosheet probed by planar Hall effect”, Yan Liu, Jiyong Yang, Weiwei Chu, Haifeng Du, Wei Ning, Langsheng Ling, Wei Tong, Zhe Qu, Gang Cao, Yuheng Zhang, and Mingliang Tian, *Appl. Phys. Lett.* **111**, 033103 (2017)

8. “Determination of Hund's coupling in 5d oxides using resonant inelastic x-ray scattering”, Bo Yuan, J. P. Clancy, A. M. Cook, C. M. Thompson, J. Greedan, G. Cao, B. C. Jeon, T. W. Noh, M. H. Upton, D. Casa, T. Gog, A. Paramakanti, and Young-June Kim, *Phys. Rev. B* **95**, 235114 (2017)
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10. “Simultaneous Metal-Insulator and Antiferromagnetic Transitions in Orthorhombic Perovskite Iridate $\text{Sr}_{0.94}\text{Ir}_{0.78}\text{O}_{2.68}$ Single Crystals”, H. Zheng, J. Terzic, Feng Ye, X.G. Wan, D. Wang, Jinchen Wang, Xiaoping Wang, P. Schlottmann, S. J. Yuan and G. Cao, *Phys. Rev. B* **93**, 235157 (2016)
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12. “Anisotropic softening of magnetic excitations in lightly electron doped Sr_2IrO_4 ”, X. Liu, M. P. M. Dean, Z. Y. Meng, M. H. Upton, T. Qi, T. Gog, H. Ding, G. Cao, and J. P. Hill, *Phys. Rev. B* **93**, 241102(R) (2016)
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19. “Isotropic and Anisotropic Field-Dependent Regimes of the Spin-Wave Excitations in Sr_2IrO_4 : Raman Scattering Studies”, Y. Gim, A. Sethi, J.F. Mitchell, G. Cao, and S. L. Cooper, *Phys. Rev. B* **93**, 024405 (2016)
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