

List of Publications

Min Gyu Kim

Recognized by the h-index of 19. Sum of the Times Cited: 1414

1. **Min Gyu Kim**, Hu Miao, Bin Gao, Sang-Wook Cheong, Claudio Mazzoli, Andi Barbour, Wen Hu, Stuart Wilkins, Ian Robinson, Mark Dean, and Valery Kiryukhin, "Imaging antiferromagnetic antiphase domain boundaries using magnetic Bragg diffraction phase contrast," *Nature Communications*, *accepted* (2018).
2. **M. G. Kim**, B. Winn, S. Chi, A. Savici, J. A. Rodriguez-Rivera, Y. Li, X. Xu, J. W. Kim, S.-W. Cheong, V. Kiryukhin, "Spin-Liquid-Like State in the Triangular Lattice Antiferromagnet TbInO_3 ," *in preparation* (2018).
3. M. Wang, M. Yi, H. L. Sun, P. Valdivia, **M. G. Kim**, Z. J. Xu, T. Berlijn, A. D. Christianson, Songxue Chi, M. Hashimoto, D. H. Lu, X. D. Li, E. Bourret-Courchesne, Pengcheng Dai, D. H. Lee, T. A. Maier, R. J. Birgeneau, "Experimental elucidation of the origin of the 'double spin resonances' in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$," *Physical Review B* **93**, 205149 (2016). *Times cited: 7*
4. **M. G. Kim**, T. W. Heitmann, S. R. Mulcahy, E. D. Bourret-Courchesne, and B. J. Birgeneau, "Structural and antiferromagnetic properties of $\text{Ba}(\text{Fe}_{1-x-y}\text{Co}_x\text{Rh}_y)_2\text{As}_2$," *Physical Review B* **93**, 094520 (2016). *Times cited: 2*
5. **M. G. Kim**, M. Wang, G. S. Tucker, P. N. Valdivia, D. L. Abernathy, S. Chi, A. D. Christianson, A. A. Aczel, T. Hong, T. W. Heitmann, S. Ran, P. C. Canfield, A. Kreyssig, E. D. Bourret-Courchesne, A. I. Goldman, D. H. Lee, R. J. McQueeney, and R. J. Birgeneau, "Spin dynamics near a putative antiferromagnetic quantum critical point in Cu substituted BaFe_2As_2 and its relation to high temperature superconductivity," *submitted to Physical Review B* (2015). *Times cited: 6*
6. P. N. Valdivia, **M. G. Kim**, T. R. Forrest, Z. Xu, M. Wang, H. Wu, L. W. Harringer, E. D. Bourret-Courchesne, and B. J. Birgeneau, "Copper substituted iron telluride: a phase diagram," *Physical Review B* **91**, 224424 *Editors' Suggestion* (2015). *Times cited: 3*
7. D. G. Quirinale, V. K. Anand, **M. G. Kim**, Abhishek Pandey, A. Huq, P. W. Stephens, T. W. Heitmann, A. Kreyssig, R. J. McQueeney, D. C. Johnston, and A. I. Goldman, "Crystal and magnetic structure of $\text{CaCo}_{1.86}\text{As}_2$ studied by x-ray and neutron diffraction", *Physical Review B* **88**, 174420 (2013). *Times cited: 24*
8. H. Hodovanets, S. L. Bud'ko, X. Lin, V. Taufour, **M. G. Kim**, D. K. Pratt, A. Kreyssig, and P. C. Canfield, "Anisotropic transport and magnetic properties and magnetic field tuned states of CeZn_{11} single crystals", *Physical Review B* **88**, 054410 (2013). *Times cited: 7*
9. Abhishek Pandey, D. G. Quirinale, W. Jayasekara, A. Sapkota, **M. G. Kim**, R. S. Dhaka, Y. Lee, T. W. Heitmann, P. W. Stephens, V. Ogloblichev, A. Kreyssig, R. J. McQueeney, A. I. Goldman, Adam Kaminski, B. N. Harmon, Y. Furukawa, and D. C. Johnston, "Crystallographic, electronic, thermal, and magnetic properties of single-crystal SrCo_2As_2 ", *Physical Review B* **88**, 014526 *Editors' Suggestion* (2013). *Times cited: 35*
10. **M. G. Kim**, J. Soh, J. Lang, M. P. M. Dean, A. Thaler, S. L. Bud'ko, P. C. Canfield, E. Bourret-Courchesne, A. Kreyssig, A. I. Goldman and R. J. Birgeneau, "Spin polarization of Ru in

- superconducting $\text{Ba}(\text{Fe}_{0.795}\text{Ru}_{0.205})_2\text{As}_2$ studied by x-ray resonant magnetic scattering", *Physical Review B* **88**, 014424 (2013). *Times cited: 6*
11. Andreas Kreyssig, Guillaume Beutier, Takanobu Hiroto, **Min Gyu Kim**, Gregory S. Tucker, Marc de Boissieu, Ryuji Tamura and Alan I. Goldman, "Antiferromagnetic order and the structural order-disorder transition in the Cd_6Ho quasicrystal approximant", *Philosophical Magazine Letters* (2013). *Times cited: 5*
 12. **M. G. Kim**, G. S. Tucker, D. K. Pratt, S. Ran, A. Thaler, A. D. Christianson, K. Marty, S. Calder, A. Podlesnyak, S. L. Bud'ko, P. C. Canfield, A. Kreyssig, A. I. Goldman, and R. J. McQueeney, "Magnon-like dispersion of spin resonance in Ni-doped BaFe_2As_2 ", *Physical Review Letters* **110**, 177002 (2013). *Times cited: 12*
 13. **M. G. Kim**, J. Lamsal, T. Heitmann, G. S. Tucker, D. K. Pratt, S. N. Khan, Y. B. Lee, A. Alam, A. Thaler, N. Ni, S. L. Bud'ko, K. J. Marty, M. D. Lumsden, P. C. Canfield, B. N. Harmon, D. Johnson, A. Kreyssig, R. J. McQueeney, and A. I. Goldman, "Effects of transition metal substitutions on the incommensurability and spin fluctuations in BaFe_2As_2 by elastic and inelastic neutron scattering", *Physical Review Letters* **109**, 167003 (2012). *Times cited: 30*
 14. S. Ran, S. L. Bud'ko, W. E. Straszheim, J. Soh, **M. G. Kim**, A. Kreyssig, A. I. Goldman, and P. C. Canfield, "Control of magnetic, non-magnetic and superconducting states in annealed $\text{Ca}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ ", *Physical Review B* **85**, 224528 (2012). *Times cited: 41*
 15. M. P. M. Dean, **M. G. Kim**, A. Kreyssig, J. W. Kim, X. Liu, P. J. Ryan, A. Thaler, S. L. Bud'ko, W. Strassheim, P. C. Canfield, J. P. Hill, and A. I. Goldman, "Magnetically polarized Ir dopant atoms in superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Ir}_x)_2\text{As}_2$ ", *Physical Review B* **85**, 140514(R) *Editors' Suggestion* (2012). *Times cited: 5*
 16. **M. G. Kim**, G. Beutier, A. Kreyssig, T. Hiroto, T. Yamada, J. W. Kim, M. de Boissieu, R. Tamura, and A. I. Goldman, "Antiferromagnetic order in the quasicrystal approximant Cd_6Tb studied by x-ray resonant magnetic scattering", *Physical Review B* **85**, 134442 (2012). *Times cited: 10*
 17. **M. G. Kim**, A. Kreyssig, Y. B. Lee, R. J. McQueeney, B. N. Harmon, and A. I. Goldman, "Fe K-edge X-ray resonant magnetic scattering from $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ superconductors", *The European Physical Journal Special Topics* **208**, 157 (2012). *Times cited: 1*
 18. G. S. Tucker, D. K. Pratt, **M. G. Kim**, S. Ran, A. Thaler, G. E. Granroth, K. Marty, W. Tian, J. L. Zarestky, M. D. Lumsden, S. L. Bud'ko, P. C. Canfield, A. Kreyssig, A. I. Goldman, and R. J. McQueeney, "Competition between stripe and checkerboard magnetic instabilities in Mn-doped BaFe_2As_2 ", *Physical Review B* **86**, 020503(R) (2012). *Times cited: 30*
 19. E. C. Blomberg, A. Kreyssig, M. A. Tanatar, R. M. Fernandes, **M. G. Kim**, A. Thaler, J. Schmalian, S. L. Bud'ko, P. C. Canfield, A. I. Goldman, and R. Prozorov, "Effect of tensile stress on the in-plane resistivity anisotropy in BaFe_2As_2 ", *Physical Review B* **85**, 144509 (2012). *Times cited: 42*
 20. A. Kreyssig, **M. G. Kim**, J. W. Kim, D. K. Pratt, S. M. Sauerbrei, S. D. March, G. R. Tesdall, S. L. Bud'ko, P. C. Canfield, R. J. McQueeney, and A. I. Goldman, "Magnetic order in GdBiPt studied by x-ray resonant magnetic scattering", *Physical Review B* **84**, 220408(R) (2011). *Times cited: 13*
 21. D. K. Pratt, **M. G. Kim**, A. Kreyssig, Y. B. Lee, G. S. Tucker, A. Thaler, W. Tian, J. L. Zarestky, S. L. Bud'ko, P. C. Canfield, B. N. Harmon, A. I. Goldman, and R. J. McQueeney, "Incommensurate spin-density wave order in electron doped BaFe_2As_2 superconductors", *Physical Review Letters* **106**, 257001 (2011). *Times cited: 77*

22. S. Ran, S. L. Bud'ko, D. K. Pratt, A. Kreyssig, **M. G. Kim**, M. J. Kramer, D. H. Ryan, W. N. Rowan-Weetaluktuk, Y. Furukawa, B. Roy, A. I. Goldman, and P. C. Canfield, "Stabilization of an ambient pressure, collapsed tetragonal phase in CaFe_2As_2 and tuning of the orthorhombic/antiferromagnetic transition temperature by over 70 K by control of nano-precipitates", *Physical Review B* **83**, 144517 (2011). *Times cited: 55*
23. **M. G. Kim**, R. M. Fernandes, A. Kreyssig, J. W. Kim, A. Thaler, S. L. Bud'ko, P. C. Canfield, R. J. McQueeney, J. Schmalian, and A. I. Goldman, "Character of the structural and magnetic phase transitions in the parent and electron doped BaFe_2As_2 compounds", *Physical Review B* **83**, 134522 (2011). *Times cited: 106*
24. **M. G. Kim**, D. K. Pratt, G. E. Rustan, W. Tian, J. L. Zarestky, A. Thaler, S. L. Bud'ko, P. C. Canfield, R. J. McQueeney, A. Kreyssig, and A. I. Goldman, "Magnetic ordering and structural distortion in Ru-doped BaFe_2As_2 single crystals studied by neutron and x-ray diffraction", *Physical Review B* **83**, 054514 (2011). *Times cited: 52*
25. N. H. Sung, A. Kreyssig, H. Kim, M. A. Tanatar, J. S. Rhyee, B. Y. Kang, **M. G. Kim**, J. Y. Kim, P. C. Canfield, R. Prozorov, A. I. Goldman, and B. K. Cho, "Zero field magnetic phase transitions and anomalous low temperature upturn in resistivity of single crystalline $\alpha\text{-TmAlB}_4$ ", *Journal of Applied Physics* **107**, 09E148 (2010). *Times cited: 1*
26. **M. G. Kim**, A. Kreyssig, A. Thaler, D. K. Pratt, W. Tian, J. L. Zarestky, M. A. Green, S. L. Bud'ko, P. C. Canfield, R. J. McQueeney, and A. I. Goldman, "Antiferromagnetic ordering in the absence of structural distortion in $\text{Ba}(\text{Fe}_{1-x}\text{Mn}_x)_2\text{As}_2$ ", *Physical Review B* **82**, 220503(R) (2010). *Times cited: 66*
27. **M. G. Kim**, A. Kreyssig, Y. B. Lee, J. W. Kim, D. K. Pratt, A. Thaler, S. L. Bud'ko, P. C. Canfield, B. N. Harmon, R. J. McQueeney, and A. I. Goldman "Commensurate antiferromagnetic ordering in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ determined by x-ray resonant magnetic scattering at the Fe K edge", *Physical Review B* **82**, 180412(R) (2010). *Times cited: 19*
28. W. Tian, W. Ratcliff II, **M. G. Kim**, J. -Q. Yan, P. A. Kienzle, Q. Huang, B. Jensen, K. W. Dennis, R. W. McCallum, T. A. Lograsso, R. J. McQueeney, A. I. Goldman, and A. Kreyssig, "Interplay of Fe and Nd magnetism in NdFeAsO single crystals", *Physical Review B* **82**, 060514(R) *Editors' Suggestion* (2010). *Times cited: 37*
29. M. A. Tanatar, E. C. Blomberg, A. Kreyssig, **M. G. Kim**, N. Ni, A. Thaler, S. L. Bud'ko, P. C. Canfield, A. I. Goldman, I. I. Mazin, and R. Prozorov, "Uniaxial-strain mechanical detwinning of CaFe_2As_2 and BaFe_2As_2 crystals: Optical and transport study", *Physical Review B* **81**, 184508 *Editors' Suggestion* (2010). *Times cited: 191*
30. A. Kreyssig, **M. G. Kim**, S. Nandi, D. K. Pratt, W. Tian, J. L. Zarestky, N. Ni, A. Thaler, S. L. Bud'ko, P. C. Canfield, R. J. McQueeney, and A. I. Goldman, "Suppression of antiferromagnetic order and orthorhombic distortion in superconducting $\text{Ba}(\text{Fe}_{0.961}\text{Rh}_{0.039})_2\text{As}_2$ ", *Physical Review B* **81**, 134512 (2010). *Times cited: 37*
31. Rafael M. Fernandes, Daniel K. Pratt, Wei Tian, Jerel Zarestky, Andreas Kreyssig, Shibabrata Nandi, **Min Gyu Kim**, Alex Thaler, Ni Ni, Paul C. Canfield, Robert J. McQueeney, Jörg Schmalian, and Alan I. Goldman, "Unconventional pairing in the iron arsenide superconductors", *Physical Review B* **81**, 140501(R) *Editors' Suggestion* (2010). *Times cited: 149*
32. A. I. Goldman, A. Kreyssig, S. Nandi, **M. G. Kim**, M. L. Caudle, and P. C. Canfield, "High-energy X-ray diffraction studies of $\text{i-Sc}_{12}\text{Zn}_{88}$ ", *Philosophical Magazine* **91**, 2427 (2010). *Times cited: 9*

33. P. C. Canfield, M. L. Caudle, C. -S. Ho, A. Kreyssig, S. Nandi, **M. G. Kim**, X. Lin, A. Kracher, K. W. Dennis, R. W. McCallum, and A. I. Goldman, "Solution growth of a binary icosahedral quasicrystal of $\text{Sc}_{12}\text{Zn}_{88}$ ", *Physical Review B* **81**, 020201(R) *Editors' Suggestion* (2010). *Times cited: 23*
34. S. Nandi, **M. G. Kim**, A. Kreyssig, R. M. Fernandes, D. K. Pratt, A. Thaler, N. Ni, S. L. Bud'ko, P. C. Canfield, J. Schmalian, R. J. McQueeney, and A. I. Goldman, "Anomalous Suppression of the Orthorhombic Lattice Distortion in Superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ Single Crystals", *Physical Review Letters* **104**, 057006 (2010). *Times cited: 274*
35. **Min Gyu Kim**, Sun Man Kim, Eun Jip Choi, Seung Eon Moon, Jonghyurk Park, Hyoungh Chan Kim, Bae Ho Park, Myoung Jae Lee, Sunae Seo, David H. Seo, Seung Eun Ahn, and In Kyeong Yoo, "Study of Transport and Dielectric of Resistive Memory States in NiO Thin Film", *Japanese Journal of Applied Physics* **44**, L1301 (2005). *Times cited: 34*
36. J. Kim, Y. Lee, **M. G. Kim**, A. Souchkov, J. S. Lee, H. D. Drew, S.-J. Oh, C. W. Nan, and E. J. Choi, "Infrared study of giant dielectric constant in Li- and Ti-doped NiO", *Physical Review B* **70**, 172106 (2004). *Times cited: 5*