Publication List of Pei-Chun Ho

(In reverse chronological order, updated on 2/18/2020)

1. P.-C. Ho, D. E. MacLaughlin, M. B. Maple, L. Shu, A. D. Hillier, O. O. Bernal, T. Yanagisawa, P. K. Biswas, Jian Zhang, Cheng Tan, S. D. Hishida, T. McCullough-Hunter, "Muon spin rotation and relaxation in $Pr_{1-x}Nd_xOs_4Sb_{12}$: superconductivity and magnetism in Pr-rich alloys," arXiv: 1910.01757 (2019). [Publication with student coauthors from PCH Lab]
2. K. Götze, M. J. Pearce, P. A. Goddard, M. Jaime, M. B. Maple, K. Sasmal, T. Yanagisawa, A. McCollam, T. Khouri, P.-C. Ho, and J. Singleton, "Unusual phase boundary of the magnetic-field-tuned valence transition in $CeOs_4Sb_{12}$," *Physical Review B* **101**, 075102 (2020).
3. A. Capa Salinas, J. Velasquez, P.-C. Ho, "Probe Design for Thermopower Measurements Using a Differential Thermocouple," *Proceedings of the National Conference of Undergraduate Research (NCUR) 2019*, Page 171-177.
   https://www.ncurproceedings.org/ojs/index.php/NCUR2019/article/view/2864
   [Student publication from PCH Lab]
4. Yeh-Chia Chang, Shoji Hishida, Jesus Velasquez, Taylor McCullough-Hunter, Pei-Chun Ho, M. Brian Maple, Tatsuya Yanagisawa, "Thermal Analysis of the Specific Heat of $Pr_{1-x}Nd_xOs_4Sb_{12}$," *Proceedings of the National Conference of Undergraduate Research (NCUR) 2019*,.Page 219-226.
   http://www.ncurproceedings.org/ojs/index.php/NCUR2019/article/view/2830
   [Student publication from PCH Lab]
5. O. O. Bernal, D. E. MacLaughlin, G. D. Morris, P. -C. Ho, Lei Shu, C. Tan, J. Zhang, Z. Ding, K. Huang, and V. V. Poltavets, "Charged-stripe order, antiferromagnetism, and spin dynamics in the cooperate along nickelate $La_4Ni_3O_8$," *Physical Review B* **100**, 125142 (2019).
6. Pei-Chun Ho, "Faculty Research: Dr. Pei-Chun Ho, Department of Physics," Elements, (Magazine of College of Science and Mathematics, Fresno State), Vol. Spring 2018, page 10 (2018).
7. C. Tan, T. P. Ying, Z. F. Ding, J. Zhang, D. E. MacLaughlin, O. O. Bernal, P.-C. Ho, K. Huang, I. Watanabe, S. Y. Li, and L. Shu, "Nodal superconductivity coexists with low-moment static magnetism in single-crystalline tetragonal FeS: A muon spin relaxation and rotation study," *Physical Review B* **97**, 174524 (2018). DOI: 10.1103/PhysRevB.97.174524
8. K. Huang, C. Tan, J. Zhang, Z. Ding, D. E. MacLaughlin, O. O. Bernal, P.-C. Ho, C. Baines, L. S. Wu, M. C. Aronson, and L. Shu, "Anomalous quantum critical spin dynamics in YFe_2Al_{10}," *Physical Review B* **97**, 155110 (2018). DOI: 10.1103/PhysRevB.97.155110
9. Jian Zhang, Zhaofeng Ding, Cheng Tan, Kevin Huang, Oscar Bernal, Pei-Chun Ho, Gerard D. Morris, Adrian D. Hillier, Pabitra K. Biswas, Stephen P. Cottrell, Hui Xiang, Xin Yao, Douglas E. MacLaughlin, Lei Shu, "Discovery of slow magnetic fluctuations and critical slowing down in pseudogap phase $YBa_2Cu_3O_y$," *Science Advances* **4**, eaao5235 (2018).
   DOI: 10.1126/sciadv.aao5235
10. Y Fang, C T Wolowiec, A J Breindel, D Yazici, P-C Ho, and M B Maple, "Upper critical magnetic field of $LnO_{0.5}F_{0.5}BiS_2$ (*Ln* = La, Nd) superconductors at ambient and high pressure," *Superconductor Science and Technology* **30**, 115004 (2017) DOI: 10.1088/1361-6668/aa8829
11. Pei-Chun Ho, John Singleton, Paul A. Goddard, Fedor F. Balakirev, Shalinee Chikara, Tatsuya Yanagiwawa, M. Brian Maple, David B. Shrekenhamer, Xia Lee, and Avraham T. Thomas, "Fermi-surface topologies and low-temperature phases of the filled skutterudite compounds $CeOs_4Sb_{12}$ and $NdOs_4Sb_{12}$," *Physical Review B* **94**, 205140 (2016). DOI: 10.1103/PhysRevB.94.205140

12. J. Zhang, K. Huang, Z. F. Ding, D. E. MacLaughlin, O. O. Bernal, P.-C. Ho, C. Tan, X. Liu, D. Yazici, M. B. Maple, and L. Shu, "Superconducting gap structure in ambient-pressure-grown $LaO_{0.5}F_{0.5}BiS_2$," *Physical Review B* **94**, 244502 (2016). DOI: 10.1103/PhysRevB.94.224502

13. S. Mombetsu, T. Murazumi, H. Hidaka, T. Yanagisawa, H. Amitsuka, P.-C. Ho, and M. B. Maple, "Study of localized character of 4*f* electrons and ultrasonic dispersions in $SmOs_4Sb_{12}$ by high-pressure high-frequency ultrasonic measurements," *Physical Review B* **94**, 085142 (2016). DOI: 10.1103/PhysRevB.94.085142

14. D. E. MacLaughlin, K. Kuga, L. Shu, O. O. Bernal, P.-C. Ho, S. Nakatsuji, K. Huang, Z. F. Ding, C. Tan, and J. Zhang, "Quantum criticality and inhomogeneous magnetic order in Fe-doped α-$YbAlB_4$," *Physical Review B* **93**, 214421 (2016). DOI: 10.1103/PhysRevB.93.214421

15. S. Mombetsu, T. Yanagisawa, H. Hidaka, H. Amitsuka, S. Yasin, S. Zherlitsyn, J. Wosnitza, P.-C. Ho, and M. B. Maple, "Crystalline Electric Field and Kondo Effect in $SmOs_4Sb_{12}$," *Journal of the Physical Society of Japan* **85**, 043704 (2016). DOI: 10.7566/JPSJ.85.043704

16. I. Jeon, K. Huang, D. Yazici, N. Kanchanavatee, B. D. White, P.-C. Ho, S. Jang, N. Pouse, and M. B. Maple, "Investigation of superconducting and normal-state properties of the filled-skutterudite systems $PrPt_4Ge_{12-x}Sb_x$," *Physical Review B* **93**, 104507 (2016). DOI: 10.1103/PhysRevB.93.104507

17. Benjamin White, Duygu Yazici, Pei-Chun Ho, Noravee Kanchanavatee, Naveen Pouse, Yuankan Fang, Alexander Breindel, Aaron Friedman, Brian Maple, "Weak hybridization and isolated localized magnetic moments in the compounds CeT_2Cd_{20} (T = Ni, Pd)," *Journal of Physics: Condensed Matter* **27**, 315602 (2015).

18. Maya M. Castro De La Torre, Ryan Fukuda, Faculty Advisor: Pei-Chun Ho, "Synthesis and characterization of neodymium nanoparticles," *Proceedings of National Conference on Undergraduate Research (NCUR) 2014,* 994 (2014). [Student Publication from PCH Lab]

19. L. Shu, D. E. MacLaughlin, C. M. Varma, O. O. Bernal, P.-C. Ho, R. H. Fukuda, X. P. Shen, and M. B. Maple, "Landau renormalizations of superfluid density in the heavy fermion superconductor $CeCoIn_5$," *Physical Review Letter* **113**, 166401(2014). [Publication with Undergraduate Student R. H. Fukuda]

20. D. Yazici, B. D. White, P.-C. Ho, N. Kanchanavatee, K. Huang, A. J. Friedman, A. S. Wong, V. W. Burnett, N. R. Dilley, and M. B. Maple, "Investigation of magnetic order in $SmTr_2Zn_{20}$ (Tr = Fe, Co, Ru) and $SmTr_2Cd_{20}$ (Tr = Ni, Pd)," *Physical Review B* **90**, 144406 (2014).

21. S. Jang, B. D. White, P.-C. Ho, N. Kanchanavatee, M. Janoschek, J. J. Hamlin, M. B. Maple, "Crossover between Fermi liquid and non-Fermi liquid behavior in the non-centrosymmetric compound $Yb_2Ni_{12}P_7$," *Journal of Physics: Condensed Matter* **26**, 425601 (2014).

22. P.-C. Ho, D. E. MacLaughlin, L. Shu, O. O. Bernal, S. Zhao, A. A. Dougraghi, T. Yanagisawa, M. B. Maple, and R. H. Fukuda, "Muon spin rotation and relaxation in $Pr_{1-x}Nd_xOs_4Sb_{12}$: paramagnetic states," *Physical Review B* **89**, 235111 (2014). [Publication with Undergraduate Student R. H. Fukuda]

23. D. E. MacLaughlin, P.-C. Ho, L. Shu, O. O. Bernal, S. Zhao, A. A. Dougraghi, T. Yanagisawa, M. B. Maple, and R. H. Fukuda, "Muon spin rotation and relaxation in $Pr_{1-x}Nd_xOs_4Sb_{12}$: magnetic and superconducting ground states," *Physical Review B* **89**, 144419 (2014). [Publication with Undergraduate Student R. H. Fukuda]

24. K. Huang, L. Shu, I. K. Lum, B. D. White, M. Janoschek, D. Yazici, J. J. Hamlin, D. A. Zocco, P.-C. Ho, R. E. Baumbach, and M. B. Maple, "Probing the Unconventional Superconductivity of $PrPt_4Ge_{12}$ through Ce substitution," *Physical Review B* **89**, 035145 (2014).

25. Hank Anderson, Ulises Urbina, Faculty Advisor: Pei-Chun Ho, "Constructing a Relaxation Calorimeter," *Proceedings of National Conference on Undergraduate Research (NCUR) 2013,* Page 488-496 (Open Access) http://www.ncurproceedings.org/ojs/index.php/NCUR2013/article/view/616/438 [Student manuscript from PCH Lab]

26. Ryan H. Fukuda, Smitha Sunny, Faculty Advisor: Pei-Chun Ho, "Testing of an AC magnetic susceptometer," *Proceedings of National Conference on Undergraduate Research (NCUR) 2012,* Page 299-304 (Open Access) [Student Publication from PCH Lab]

27. R. E. Baumbach, J. J. Hamlin, P.-C. Ho, I. K. Lum, and M. B. Maple, "Superconducting and magnetic anisotropy of LnFePO (Ln = La, Pr, and Nd) single crystals," *Physical Review B* **85**, 104526 (2012).

28. Carmin Liang, Dulce Romero, Jussi Amaral, Faculty Advisor: Pei-Chun Ho, Acknowledgements: Saeed Attar, Dennis Margosan, "Synthesis and characterization of rare-earth gadolinium nanoparticles," *Proceedings of National Conference on Undergraduate Research (NCUR) 2011*, Page 334-340, Ithaca College, March 31 – April 2, 2011. [Student Publication from PCH Lab]

29. L. Shu, R. E. Baumbach, M. Janoschek, E. Gonzales, K Huang, T. A. Sayles, J. Paglione, J. O'Brien, J. J. Hamlin, D. A. Zocco, P.-C. Ho, C. A. McElroy, and M. B. Maple, "Correlated electron state in $Ce_{1-x}Yb_xCoIn_5$ stabilized by cooperative valence fluctuations," *Physical Review Letters* **106**, 156403 (2011).

30. T. Yanagisawa, Y. Ikeda, H. Saito, H. Hidaka, H. Amistuka, K. Araki, M. Akatsu, Y. Nemoto, T. Goto, P.-C. Ho, R. E. Baumbach, and M. B. Maple, "Magnetic-field-independent ultrasonic dispersions due to rattling in magnetically robust heavy fermion system $SmOs_4Sb_{12}$," *Journal of the Physical Society of Japan* **80**, 043601 (2011).

31. P.-C. Ho, T. Yanagisawa, W. M. Yuhasz, A. A. Dooraghi, C. C. Robison, N. P. Butch, R. E. Baumback, and M. B. Maple, "Superconductivity, magnetic order, and quadrupolar order in the filled skutterudite system $Pr_{1-x}Nd_xOs_4Sb_{12}$," *Physical Review B* **83**, 024511 (2011). [Editors' Suggestion]

32. P.-C. Ho, J. Singleton, M. B. Maple, D. B. Shrekenhamer, X. Lee, A. Thale, and T. Yanagisawa, "Shubnikov-de Haas Effect Measurements on $CeOs_4Sb_{12}$ for Fields along [001]," National High Magnetic Field Laboratory 2010 Research Reports # 131 (2010).

33. P.-C. Ho, J. Singleton, M. B. Maple, P. Goddard, and T. Yanagisawa, Shubnikov-de Haas Effect Measurements on $NdOs_4Sb_{12}$ for Fields along [001] and [011]," National High Magnetic Field Laboratory 2010 Research Reports #116 (2010).

34. N. Kurita, H.-O. Lee, Y. Tokiwa, C. F. Miclea, E. D. Bauer, F. Ronning, J. D. Thompson, Z. Fisk, P.-C. Ho, M. B. Maple, P. Sengupta, I. Vekhter, and R. Movshovich, "Thermal and magnetic properties of the low-temperature antiferromagnet $Ce_4Pt_{12}Sn_{25}$," *Physical Review B* **82**, 174426 (2010).

35. T. A. Sayles, R. E. Baumbach, W. M. Yuhasz, M. B. Maple, Ł. Bochenek, R. Wawryk, T. Cichorek, A. Pietraszko, Z. Henkie, and P.-C. Ho, "Superconductivity and crystalline electric field effect in the Pr filled skutterudite compound $PrRu_4As_{12}$," *Physical Review B* **82**, 104513 (2010).

36. J. Thompson, U. Urbina, Faculty Advisor: P.-C. Ho, "Constructing a multiplexer (scanner)," *Proceedings on National Conference on Undergraduate Research* (NCUR) 2010, Page 513-519, University of Motanan-Missoula, April 15-17, 2010. [Student Publication from PCH Lab]

37. R. E. Baumbach, J. J. Hamlin, L. Shu, D. A. Zocco, J. O'Brien, P.-C. Ho, and M. Brian Maple, "Unconventional T-H phase diagram in the noncentrosymmetric compound $Yb_2Fe_{12}P_7$," *Physical Review Letters* **105**, 106403 (2010).

38. C. C. Beedle, J. J. Henderson, P.-C. Ho, T. Sayles, M. Nakano, J. R. O'Brien, K. J. Heroux, E. del Barco, M. B. Maple, and D. N. Hendriksson, "Ferromagnetic ordering and simultaneous fast magnetization tunneling in a Ni4 single-molecule magnet," *Inorganic Chemistry* **49**, 5780 (2010).

39. D. Coffey, M. DeMarco, P.-C. Ho, M. B. Maple, T. Sayles, J. W. Lynn, Q. Huang, S. Toorongian, and M. Haka, "Absence of the hyperfine magnetic field at the Ru site in ferromagnetic rare-earth intermetallics," *Physics Review B* **81**, 184404 (2010).

40. H.-O. Lee, N. Kurita, P.C. Ho, C. L. Condron, P. Klavins, S. M. Kauzlarich, M. B. Maple, R. Movshovich, E. D. Bauer, J. D. Thompson, and Z. Fisk, "Weak coupling magnetism in Ce4Pt12Sn25: a small exchange limit in the Doniach phase diagram," *Journal of Physics: Condensed Matter* **22**, 065601 (2010).

41. T. Yanagisawa, T. Mayama, H. Hidaka, H. Amitsuka, A. Yamaguchi, K. Araki, Y. Nemoto, T. Goto, N. Takeda, P.-C. Ho, and M. B. Maple, "Ultrasonic investigation of off-center rattling in $Pr_{0.55}Nd_{0.45}Os_4Sb_{12}$," Proceedings of the International Conference on Strongly Correlated Electron Systems, *Physica B* **404**, 3235 - 3237 (2009).

42. M. M. Qazilbash, M. Brehm, G. O. Andreev, A. Frenzel, P.-C. Ho, B.-G. Chae, B.-J. Kim, S. J. Yun, H.-T. Kim, A. V. Balatsky, O. G. Shpyrko, M. B. Maple, F. Keilmann, and D.N. Basov, "Infrared spectroscopy and nano-imaging of the insulator-to-metal transition in vanadium dioxide," *Physical Review B* **79**, 075107 (2009).

43. P.-C. Ho, J. Singleton, M. B. Maple, P. Goddard, T. Yanagisawa, "High-field de Haas-van Alphen investigation of the filled skutterudite compound $NdOs_4Sb_{12}$," 2008 Research Reports for Pulsed Field Facility at LANL, Report number 242 (2008).
http://www.magnet.fsu.edu/usershub/publications/researchreportsonline.aspx

44. J. Paglione, P.-C. Ho, M. B. Maple, M.A. Tanatar, L. Taillefer, Y. Lee, C. Petrovic, "Ambient-pressure bulk superconductivity deep in the magnetic state of CeRhIn5," *Physical Review B* **77**, 100505(R) (2008).

45. T. Yanagisawa, Y. Yasumoto, Y. Nemoto, T. Goto, W. M. Yuhasz, P.-C. Ho, M. B. Maple, Z. Henkie, A. Pietraszko, "Quadrupole effect in the filled skutterudite compound $PrOs_4As_{12}$," Proceeding of International Conference on New Quantum Phenomena in Skutterudite and Related Systems (Skutterudite 2007), *Journal of Physical Society of Japan 77* ***Suppl. A***, 225 (2008).

46. Z. Henkie, M. B. Maple, A. Pietraszko, R. Wawryk, T. Cichork, R. E Baumbach, W. M. Yuhasz, and P.-C. Ho, "Crystal growth and properties of the filled skutterudite arsenides," Proceeding of International Conference on New Quantum Phenomena in Skutterudite and Related Systems (Skutterudite 2007), *Journal of Physical Society of Japan 77* ***Suppl. A***, 128 (2008).

47. M. B. Maple, Z. Henkie, R. E Baumbach, T. A. Sayles, N. P. Butch, P.-C. Ho, T. Yanagisawa, W. M. Yuhasz, R. Wawryk, T. Cichork, and A. Pietraszko, "Correlated electron phenomena in Ce- and Pr-based filled skutterudite compounds," Proceeding of International Conference on New Quantum Phenomena in Skutterudite and Related Systems (Skutterudite 2007), *Journal of Physical Society of Japan 77* ***Suppl. A***, 7 (2008).

48. R. E. Baumbach, P.-C. Ho, T. A. Sayles, M. B. Maple, R. Wawryk, T. Cichorek, A. Pietraszko, and Z. Henkie, "The filled skutterudite $CeOs_4As_{12}$: a hybridization gap semiconductor," *Proceeding of the National Academy of Sciences of the United States of America* **105**, 17307 (2008).

49. R. E. Baumbach, P.-C. Ho, T. A. Sayles, M. B. Maple, R. Wawryk, T. Cichorek, A. Pietraszko, and Z. Henkie, "Non Fermi liquid behavior in the filled skutterudite compound $CeRu_4As_{12}$," *Journal of Physics: Condensed Matter* **20**, 075110 (2008).

50. T. Yanagisawa, P.-C. Ho, W. M. Yuhasz, M. B. Maple, Y. Yasumoto, H. Watanabe, Y. Nemoto, and T. Goto, "Ultrasonic investigation of off-center rattling in filled skutterudite compound $NdOs_4Sb_{12}$," *Journal of Physical Society of Japan* **77**, 074607 (2008).

51. P.-C. Ho, N. P. Butch, V. S. Zapf, T. Yanagisawa, N. A. Frederick, S. K. Kim, W. M. Yuhasz, M. B. Maple, J. B. Betts, and A. H. Lacerda, "High field ordered phase and upper critical field of the filled skutterudite system $Pr(Os_{1-x}Ru_x)_4Sb_{12}$," *Journal of Physics: Condensed Matter* **20**, 215226 (2008).

52. T. Yanagisawa, W. M. Yuhasz, T. A. Sayles, P.-C. Ho, M. B. Maple, H. Watanabe, Y. Yasumoto, Y. Nemoto, T. Goto, Z. Henkie, and A. Pietraszko, "Ultrasonic investigation of field-dependent ordered phases in the filled skutterudite compound $PrOs_4As_{12}$," *Physical Review B* **77**, 094435 (2008).

53. R. Wawryk, O. Zogal, A. Pietraszko, S. Paluch, T. Cichorek, W. M. Yuhasz, T. A. Sayles, P.-C. Ho, T. Yanagisawa, N. P. Butch, M. B. Maple, and Z. Henkie, "Crystal structure, ^{139}La NMR and transport properties of the As-based filled skutterudites $LaOs_4As_{12}$ and $PrOs_4As_{12}$," *Journal of Alloys and Compounds* **451**, 454 (2008).

54. T. Yanagisawa, W. M. Yuhasz, P.-C. Ho, M. B. Maple, H. Watanabe, Y. Yasumoto, Y. Nemoto, T. Goto, "Ultrasonic dispersion due to off-center rattling in $NdOs_4Sb_{12}$," Proceeding of SCES'07, *Physica B* **403**, 735 (2008).

55. J. Singleton, P.-C. Ho, M. B. Maple, H. Harima, P.A. Goddard, and Z. Henkie, "Fermi-surface topology and field-dependent effective masses of the filled skutterudite compound $PrOs_4As_{12}$," Proceeding of SCES'07, *Physica B* **403**, 758 (2008).

56. P.-C. Ho, T. Yanagisawa, N. P. Butch, W. M. Yuhasz, C. C. Robinson, A. A. Dooraghi, and M. B. Maple, "A comparison of the normal and superconducting state properties of $Pr(Os_{1-x}Ru_x)_4Sb_{12}$ and $Pr_{1-x}Nd_xOs4Sb_{12}$," Proceeding of SCES'07, *Physica B* **403**, 1038 (2008).

57. M. M Qazilbash, M Brehm, B. G. Chae, P.-C. Ho, G. O. Andreev, B. J. Kim, S. J. Yun, A. V. Balatsky, M. B. Maple, F. Keilmann, H. T. Kim, and D. N. Basov, "Mott transition in VO2 revealed by infrared spectroscopy and nano-imaging," Science **318**, 1750 (2007).

58. M. B. Maple, Z. Henkie, W. M. Yuhasz, P.-C. Ho, T. Yanagisawa, T. A. Sayles, N. P. Butch, J. R. Jeffries, and A. Pietraszko, "Strongly correlated electron phenomena in Pr-based filled skutterudite compounds," *Journal of Magnetism and Magnetic Materials* **310**, 182 (2007).

59. J. Paglione, T. A. Sayles, P.-C.Ho, J. R. Jeffries, and M. B. Maple, "Incoherent non-Fermi-liquid scattering in a Kondo lattice," *Nature Physics* **3**, 703 (2007).

60. P.-C. Ho, J. Singleton, M. B. Maple, H. Harima, P.A. Goddard, Z. Henkie, and A. Pietraszko, "A de Haas-van Alphen study of the filled skutterudite compounds $PrOs_4As_{12}$ and $LaOs_4As_{12}$," *New Journal of Physics* **9**, 269 (2007).

61. T. Yanagisawa, W. M. Yuhasz, P.-C. Ho M. B. Maple H. Watanabe T. Ueno Y. Nemoto T. Goto "Quadrupolar susceptibility of $NdOs_4Sb_{12}$," Proceedings of ICM2006, *Journal of Magnetism and Magnetic Material* **310**, 223 (2007).

62. W. M. Yuhasz, P.-C. Ho, T. A. Sayles, T. Yanagisawa, N. A. Frederick, M. B. Maple, P. Rogl, and G. Giester, "Crystalline electric field effects in the filled skutterudite compound $PrOs_4P_{12}$," *Journal of Physics: Condensed Matter* **19**, 076212 (2007).

63. M. B. Maple, N. A. Frederick, P.-C. Ho, W. M. Yuhasz, T. Yanagisawa, "Unconventional superconductivity and heavy fermion behavior in $PrOs_4Sb_{12}$," *Journal of Superconductivity and Novel Magnetism* **19**, s10948 (2006).

64. M. B. Maple, N. P. Butch, N. A. Frederick, P.-C. Ho, J. R. Jeffries, T. A. Sayles, T. Yanagisawa, W. M. Yuhasz, S. Chi, H. J. Kang, J. W. Lynn, P. Dai, S. K. McCall, M. W. McElfresh, M. J. Fluss, Z. Henkie, and A. Pietraszko, "Field-dependent ordered phases and Kondo phenomena in the filled skutterudite compound $PrOs_4As_{12}$," *Proceeding of the National Academy of Sciences of the United States of America* **103**, 6783 (2006).

65. W. M. Yuhasz, N. P. Butch, T. A. Sayles, P.-C. Ho, J. R. Jeffries, T. Yanagisawa, N. A. Frederick, M. B. Maple, Z. Henkie, A. Pietraszko, S. K. McCall, M. W. McElfresh, and M. J. Fluss, "Multiple ordered phases and heavy fermion behavior in the filled skutterudite compound $PrOs_4As_{12}$," *Physical Review B* **73**, 144409 (2006).

66. E. D. Bauer, P.-C. Ho, M. B. Maple, T. Schauerte, D. L. Cox, and F. G. Anders, "Nonlinear susceptibility: evidence for antiferroquadrupolar fluctuations and a nonmagnetic □□□ground state in the heavy fermion superconductor $PrOs_4Sb_{12}$," *Physical Review B* **73**, 094511 (2006)

67. M. B. Maple, N. P. Butch, E. D. Bauer, V. S. Zapf, P.-C. Ho, S. D. Wilson, P. Dai, D. T. Adroja, S.-H. Lee, J.-H. Chung, and J. W. Lynn, "Non-Fermi liquid behavior and quantum criticality in $Sc_{1-x}U_xPd_3$ and $URu_{2-x}Re_xSi_2$,", *Physica B* **378-380**, 911 (2006).

68. P.-C. Ho, W. M. Yuhasz, N. P. Butch, N. A. Frederick, T. A. Sayles, J. R. Jeffries, M. B. Maple, J. B. Betts, A. H. Lacerda, P. Rogl, and G. Giester, "Ferromagnetism and possible heavy fermion behavior in single crystals of $NdOs_4Sb_{12}$," *Physical Review B* **72**, 094410 (2005).

69. M. B. Maple, N. A. Frederick, P.-C.-Ho, W. M. Yuhasz, T. A. Sayles, N. P. Butch, J. R. Jeffries, B. J. Taylor, "Novel strongly correlated electron states in filled skutterudite lanthanide osmium antimonides," *Physica B* **359-361**, 830-832 (2005).

70. E. D. Bauer, V. S. Zapf, P.-C. Ho, N. P. Butch, E. J. Freeman, C. Sirvent, and M. B. Maple, "Non-Fermi-liquid behavior within the ferromagnetic phase in $URu_{2-x}Re_xSi_2$," *Physical Review Letters* **94**, 046401 (2005).

71. N. P. Butch, W. M. Yuhasz, P.-C. Ho, J. R. Jefferies, N. A. Frederick, T. A. Sayles, M. B. Maple, J. B. Betts, A. H. Lacerda, F. M. Woodward, J. W. Lynn, P. Rogl, and G. Giester, "Ordered magnetic state in $PrFe_4Sb_{12}$ single crystals," *Physical Review B* **71**, 214417 (2005).

72. W. M. Yuhasz, N. A. Frederick, P.-C. Ho, N. P. Butch, B. J. Taylor, T. A. Sayles, M. B. Maple, J. B. Betts, A. H. Lacerda, P. Rogl, and G. Giester, "Heavy-fermion behavior, crystalline electric field effects, and weak ferromagnetism in $SmOs_4Sb_{12}$," *Physical Review B* **71**, 104402 (2005).

73. B.-L. Young, D. E. MacLaughlin, M. S. Rose, K. Ishida, O. O. Bernal, H. G. Lukefahr, K. Heuser, G. R. Stewart, M. B. Maple, N. P. Butch, and P.-C. Ho, "Disorder effects near a magnetic instability in $CePtSi_{1-x}Ge_x$ x = 0 and 0.1," *Physical Review B* **70**, 024401 (2004).

74. P.-C. Ho, V. S. Zapf, A. Ślebarski, and M. B. Maple, "Non-Fermi liquid behavior in CeRhSn," *Philosophical Magazine* **84**, 2119-2126 (2004).

75. N. A. Frederick, T. D. Do, P.-C. Ho, N. P. Butch, V. S. Zapf, and M. B. Maple, "Superconductivity and crystalline electric field effects in the filled skutterudite series $Pr(Os_{1-x}Ru_x)_4Sb_{12}$," *Physical Review B* **69**, 024523 (2004).

76. R. P. Dickey, E. J. Freeman, V. S. Zapf, P.-C. Ho, and M. B. Maple, "Magnetism and non-Fermi liquid phases in $U_{1-x}Y_xPd_2Al_3$," *Physical Review B* **68**, 144402 (2003).

77. R. P. Dickey, V. S. Zapf, P.-C. Ho, E. J. Freeman, N. A. Frederick and M. B. Maple, "Interplay between magnetism and non-Fermi liquid behavior in $Sc_{1-x}U_xPd$," *Physical Review B* **68**, 104404. (2003).

78. P.-C. Ho, N. A. Frederick, V. S. Zapf, E. D. Bauer, T. D. Do, M.B. Maple, A. D. Christianson, and A. H. Lacerda, "High-field ordered and superconducting phases of the heavy fermion compound $PrOs_4Sb_{12}$," *Physical Review B* **67**, 180508(R) (2003).

79. M. B. Maple, P.-C. Ho, N. A. Frederick, V. S. Zapf, W. M. Yuhasz, E. D. Bauer, A. D. Christianson, and A. H. Lacerda, "Superconductivity and the high-field ordered phase in the heavy-fermion compound $PrOs_4Sb_{12}$," *Journal of Physics: Condensed Matter* **15**, S2071-S2080 (2003).

80. V. S. Zapf, N. A. Frederick, K. L. Rogers, K. D. Hof, P.-C. Ho, E. D. Bauer, and M. B. Maple, "Magnetic and non-Fermi liquid phases in $Ce_{1-x}Y_xRhIn_5$," *Physical Review B* **67**, 064405 (2003).

81. M. B. Maple, **P.-C. Ho**, V. S. Zapf, W. M. Yuhasz, N. A. Frederick, and E. D. Bauer, "Heavy fermion superconductivity in the filled skutterudite compound $PrOs_4Sb_{12}$," *Physica C* **388-389**, 549-552 (2003).

82. A. Slebarski, T. Zawada, M. B. Maple, and P.-C. Ho, "Non-Fermi liquid scaling in CeRhSn," *Acta Physica Polonica B* **34**, 1295-1298 (2003).

83. M. B. Maple, E. D. Bauer, N. A. Frederick, P.-C. Ho, W. M. Yuhasz, and V. S. Zapf, "Strongly correlated electron phenomena in filled skutterudite compounds," *Physica B* **328**, 29-33 (2003).

84. M. B. Maple, P.-C. Ho, N. A. Frederick, V. S. Zapf, W. M. Yuhasz, and E. D. Bauer, "A new heavy fermion superconductor: the filled skutterudite compound $PrOs_4Sb_{12}$," *Acta Physica Polonica B* **34**, 919-930 (2003).

85. R. Vollmer, A. Faiβt, C. Pfleiderer, H. v. Löhneysen, E. D. Bauer, P.-C. Ho, V. S. Zapf, and M. B. Maple, "Low temperature specific heat of the heavy fermion superconductor $PrOs_4Sb_{12}$," *Physical Review Letters* **90**, 057001 (2003).

86. S. Moehlecke, P.-C. Ho, and M. B. Maple, "Coexistence of superconductivity and ferromagnetism in the graphite-sulfur system," *Philosophical Magazine B* **82**, 1335-1347 (2002).

87. M. B. Maple, E. D. Bauer, V. S. Zapf, P.-C. Ho, "f-Electron materials: a reservoir of novel electronic states and phenomena," *Physica B* **318**, 68-76 (2002).

88. P.-C. Ho, V. S. Zapf, E. D. Bauer, N. A. Frederick, M. B. Maple, G. Giester, P. Rogl, S. T. Berger, C. H. Paul and E. Bauer, "Superconducting and normal state properties of the heavy fermion compound $PrOs_4Sb_{12}$," *Proceedings of Physical Phenomena at High Magnetic Fields IV*, page 98-103, edited by G. Boebinger, Z. Fisk, L. Gor'kov, A. Lacerda, and J. R. Schrieffer, Singapore, World Scientific (2002). *International Journal of Modern Physics B* **16**, 3008-3013 (2002).

89. E. D. Bauer, N. A. Frederick, P.-C. Ho, V. S. Zapf and Brian Maple, "Superconductivity and heavy fermion behavior in $PrOs_4Sb_{12}$," *Physical Review B* **65**, 100506(R) (2002).

90. M. B. Maple, P.-C. Ho, V. S. Zapf, N. A. Frederick, and E. D. Bauer, W. M. Yuhasz,, F. M. Woodward and J. W. Lynn, "Heavy fermion superconductivity in the filled skutterudite compound

$PrOs_4Sb_{12}$," *Journal of the Physical Society of Japan* **71** Suppl., 23-28 (2002).

91. V. S. Zapf, E. J. Freeman, R. P. Dickey, P.-C. Ho, and M. B. Maple, "Comparison of magnetic and NFL behavior in $U_{1-x}M_xPd_2Al_3$ (M = La, Y, Th)," *Physica B* **312-313**, 448-449 (2002).
92. P.-C. Ho, H. Akimoto and R. B. Hallock, "Continuing specific heat measurements of ^{3}He in ^{3}He - ^{4}He mixture films," *Journal of Low Temperature Physics* **126**, 349-354 (2002).
93. P.-C. Ho and R. B. Hallock, "Heat-capacity studies of ^{3}He in ^{3}He - ^{4}He mixture films and the coverage dependence of the two-dimensional ^{3}He Landau Fermi-liquid parameters," *Physical Review Letters* **87**, 135301 (2001).
94. P.-C. Ho and R. B. Hallock, "A compact design of an indium heat switch," *Journal of Low Temperature Physics* **121**, 797-802 (2000).
95. P.-C. Ho and R. B. Hallock, "Specific heat measurement of ^{3}He in ^{3}He - ^{4}He mixture films," *Journal of Low Temperature Physics* **121**, 501-506 (2000).
96. P.-C. Ho, I. P. Bindloss and J. M. Goodkind, "A new anomaly in solid ^{4}He," *Journal of Low Temperature Physics* **109**, 409-421 (1997).
97. C. C. Lai, P. C. Ho, C. Y. Hung, H. C. Ku and T. Y. Lin, "The correlation between superconductivity and Cu-O bond length in Cu-O plane for the single Tl layer family $(Tl,Pb)Ca_{n-1}(Ba, La)_2Cu_nO_{2n+3-\delta}$," *Chinese Journal of Physics* **29**, 57-65 (1991).
98. C. C. Lai, T. Y. Lin, P. C. Li, P. C. Ho, C. Y. Hung, and H. C. Ku, "Superconducting and magnetic properties of the 120K Superconductor $TlCa_3Ba_2Cu_4O_{11-\delta}$," *Chinese Journal of Physics* **28**, 347-354 (1990).