

1. “Structural, magnetic, and transport properties of $\text{La}_2\text{Cu}_{1-x}\text{Li}_x\text{O}_4$ ”, J.L. Sarrao, D.P. Young, Z. Fisk, E.G. Moshopoulou, J.D. Thompson, B.C. Chakoumakos, and S.E. Nagler, *Phys. Rev. B* **54**, 12014 (1996).
2. “Low-temperature transport, thermodynamic, and optical properties of FeSi”, S. Paschen, E. Felder, M.A. Chernikov, L. Degiorgi, H. Schwer, H.R. Ott, D.P. Young, J.L. Sarrao, and Z. Fisk, *Phys. Rev. B* **56**, 12916 (1997).
3. “Transport properties of FeSi”, B. Buschinger, C. Geibel, F. Steglich, D. Mandrus, D.P. Young, J.L. Sarrao, and Z. Fisk, *Physica B* **230-232**, 784 (1997).
4. “Low-temperature nuclear magnetic resonance studies of EuB_6 ”, J.L. Gavilano, B. Ambrosini, P. Vonlanthen, H.R. Ott, D.P. Young, and Z. Fisk, *Phys. Rev. Lett.* **81**, 5648-51 (1998).
5. “Fermi surface of ferromagnetic EuB_6 ”, R.G. Goodrich, N. Harrison, J.J. Vuillemin, A. Teklu, D.W. Hall, Z. Fisk, D.P. Young and J.L. Sarrao, *Phys. Rev. B* **58**, 14896-902 (1998).
6. “Magnetic ordering in EuB_6 , investigated by neutron diffraction”, W. Henggeler, H.R. Ott, D.P. Young, and Z. Fisk, *Solid State Communications* **108**, 929-32 (1998).
7. “Electron correlations in $\text{Sr}(\text{Sm})\text{B}_6$ ”, H.R. Ott, E. Felder, M. Chernikov, Z. Fisk, J.L. Sarrao, and D.P. Young, *Phys. Rev. B* **57**, 10644-7 (1998).
8. “Magnetic ordering in $\text{Tb}_3\text{Sb}_4\text{Au}_3$ ”, C.P. Adams, T.E. Mason, D.P. Young, J.L. Sarrao, I.P. Swainson, W.J.L. Buyers, Z. Fisk, and G. Aeppli, *Physica B* **241-243**, 786-8 (1998).
9. “ $\text{Ln}_3\text{Au}_3\text{Sb}_4$: Thermoelectrics with low thermal conductivity”, D.P. Young, K. Mastronardi, P. Khalifah, C.-C. Wang, A.P. Ramirez, and R.J. Cava, *Applied Physics Letters* **74**, 3999-4001 (1999).
10. “Antimonides with the half-Heusler structure: New Thermoelectric Materials”, K. Mastronardi, D.P. Young, C.-C. Wang, P. Khalifah, A.P. Ramirez, and R.J. Cava, *Applied Physics Letters* **74**, 1415-17 (1999).
11. “NMR studies of EuB_6 at low temperatures”, B. Ambrosini, J.L. Gavilano, P. Vonlanthen, H.R. Ott, D.P. Young, and Z. Fisk, *Phys. Rev. B* **60**, 3361-69 (1999).
12. “Development of the high-field heavy-Fermion ground state in $\text{Ce}_x\text{La}_{1-x}\text{B}_6$ ”, R.G. Goodrich, N. Harrison, A. Teklu, D.P. Young, and Z. Fisk, *Phys. Rev. Lett.* **82**, 3669-72 (1999).

13. "High-temperature weak ferromagnetism in a low-carrier free electron gas", D.P. Young, D.W. Hall, M.E. Torelli, Z. Fisk, J.L. Sarrao, J.D. Thompson, H.R. Ott, S.B. Oseroff, R.G. Goodrich, R. Zysler, *Nature* **397**, 412-14 (1999).
14. "Low-temperature nuclear magnetic resonance studies of EuB_6 ", J.L. Gavilano, B. Ambrosini, P. Vonlanthen, H.R. Ott, D.P. Young, and Z. Fisk, *Physica B* **259-261**, 168-9 (1999).
15. "Magnetism and electrical transport in $\text{Fe}_{0.9}\text{TM}_{0.1}\text{Si}$, $\text{TM}=\text{Co}, \text{Rh}, \text{Ru}$ ", S. Paschen, D. Pushin, H.R. Ott, D.P. Young, and Z. Fisk, *Physica B* **259-261**, 864-5 (1999).
16. "A new mechanism for magnetoresistance in ferromagnets", N. Manyala, Y. Sidis, J.F. DiTusa, G. Aeppli, D.P. Young, and Z. Fisk, *Nature* **404**, 581-584 (2000).
17. "Thermoelectric properties of the half-Heusler compounds FeVSb and FeNbSb ", D.P. Young, P. Khalifah, A.P. Ramirez, and R.J. Cava, *Journal of Applied Physics* **87**, 317-321 (2000).
18. "Electronic transport and thermal and optical properties of $\text{Ca}_{1-x}\text{La}_x\text{B}_6$ ", P. Vonlanthen, E. Felder, L. Degiorgi, H. R. Ott, D. P. Young, A. D. Bianchi, and Z. Fisk, *Phys. Rev. B* **62**, 10076 (2000).
19. "Fermi surface properties of low concentration $\text{Ce}_x\text{La}_{1-x}\text{B}_6$: dHvA", A. A. Teklu, R. G. Goodrich, N. Harrison, D. Hall, Z. Fisk, and D. P. Young, *Phys. Rev. B* **62**, 1-7 (2000).
20. "Thermoelectric properties of Ag_3AuTe_2 ", D. P. Young, C. L. Brown, P. Khalifah, and R. J. Cava, *Journal of Applied Physics* **88** (10), 5221 (2000).
21. "Electronic transport and thermal properties of CaB_6 and $\text{Eu}_{1-x}\text{Ca}_x\text{B}_6$ ", P. Vonlanthen, E. Felder, C. Walti, S. Paschen, H. R. Ott, D. P. Young, A. D. Bianchi, and Z. Fisk, *Physica B* **284-288**, 1361-2 (2000).
22. "Spin-lattice relaxation studies of selected hexaboride compounds", J. L. Gavilano, B. Ambrosini, H. R. Ott, D. P. Young, and Z. Fisk, *Physica B* **284-288**, 1359-60 (2000).
23. "Low-temperature NMR studies of SrB_6 ", J. L. Gavilano, B. Ambrosini, H. R. Ott, D. P. Young, and Z. Fisk, *Physica B* **281-282**, 428-9 (2000).
24. "Unusual magnetism of hexaborides", H. R. Ott, J. L. Gavilano, B. Ambrosini, P. Vonlanthen, E. Felder, L. Degiorgi, D. P. Young, Z. Fisk, and R. Zysler, *Physica B* **281-282**, 423-7 (2000).

25. "Electronic transport in $\text{Eu}_{1-x}\text{Ca}_x\text{B}_6$ ", S. Paschen, D. Pushin, M. Schlatter, P. Vonlanthen, H. R. Ott, D. P. Young, and Z. Fisk, *Phys. Rev. B* **61**, 4174-4180 (2000).
26. "Suppression of the metal to semiconductor transition in bismuth cobaltates: Can cobaltates superconduct?", S. M. Louriéro, D. P. Young, R. Jin, Y. Liu, P. Bordet, Y. Qin, H. Zandbergen, M. Bodinho, M. Núñez-Regueiro, B. Batlogg, and R. J. Cava, *Physica C* **341-348**, 1-4 (2000).
27. "Band structure and thermoelectric properties of pure and doped Ag_3AuTe_2 -a very low thermal conductivity material", D.P. Young, C.L. Brown, P. Khalifah, and R.J. Cava, *Journal of Applied Physics* **88**, (10) (2000).
28. "Anomalous NMR spin-lattice relaxation in SrB_6 and $\text{Ca}_{1-x}\text{La}_x\text{B}_6$ ", J. L. Gavilano, Sh. Mushkolaj, D. Rau, H. R. Ott, A. Bianchi, D. P. Young, and Z. Fisk, *Phys. Rev. B* **63**, 140410-1 – 3 (2001).
29. "Enhancement of metallic behavior in bismuth cobaltates through lead doping", S. M. Loureiro, D. P. Young, R. J. Cava, R. Jin, Y. Liu, P. Bordet, Y. Qin, H. Zandbergen, M. Godinho, M. Núñez-Regueiro, and B. Batlogg, *Phys. Rev. B* **63** (2001).
30. Thermally induced variable-range-hopping crossover and ferromagnetism in the layered cobalt oxide $\text{Sr}_2\text{Y}_{0.5}\text{Ca}_{0.5}\text{Co}_2\text{O}_7$ ", K. Yamaura, D. P. Young, and R. J. Cava, *Phys. Rev. B* **63** (2001).
31. "Synthesis, crystal structure, magnetic, and electric properties of the cross-linked chain cobalt oxychloride $\text{Ba}_5\text{Co}_5\text{ClO}_{13}$ ", K. Yamaura, D. P. Young, T. Siegrist, C. Besnard, C. Svensson, Y. Liu, and R. J. Cava, *Journal of Solid State Chemistry* **158** (2), 175-179 (2001).
32. "Fermi-surface measurements on the low-carrier density ferromagnet $\text{Ca}_{1-x}\text{La}_x\text{B}_6$ and SrB_6 ", D.P. Young, Z. Fisk, T.P. Murphy, E.C. Palm, A. Teklu, and R. G. Goodrich, *Phys. Rev. B* **64**, 233105 (2001).
33. "Synthesis, structure, and superconducting in $\text{BeB}_{1.09}$ ", J. Y. Chan, F. R. Fronzcek, D. P. Young, and P. W. Adams, *Journal of Solid State Chemistry* **163**, 385-389 (2001).
34. "Fermi surface measurements on the low-carrier density ferromagnet $\text{Ca}_{1-x}\text{La}_x\text{B}_6$ and SrB_6 ", Donavan Hall, D. P. Young, Z. Fisk, T. P. Murphy, E. C. Palm, A. Teklu, and R. G. Goodrich, *Phys. Rev. B* **64**, (23) 3105 (2001).
35. "Magnetic polarons and the metal-semiconductor transition in $(\text{Eu}, \text{La})\text{B}_6$ and EuO : Raman Scattering Studies, C. S. Snow, S. L. Cooper, D. P. Young, Z. Fisk, Arnaud Comment, and Jean-Philippe Ansermet, *Phys. Rev. B* **64**, (17) 4412 (2001).

36. "The Kondo Effect to Heavy Fermions Studied Using the de Haas-van Alphen Effect", Harrison, N.; Goodrich, R.G.; Teklu, A.; Balicas, L.; Brooks, J.S.; Young, D.P.; Fisk, Z.; Cooley, J.C. and Smith, J.L., , *Physica B*, **294-295**, 234-239 (2001).
37. "Elastic properties of ferromagnetic EuB_6 ", S. Zherlitsyn, B. Wolf, B. Luthi, M. Lang, P. Hinze, E. Uhrig, W. Assmus, H.R. Ott, D.P. Young, and Z. Fisk, *Euro. Phys. J. B* **22**, 327-333 (2001).
38. "Superconducting properties of $\text{BeB}_{2.75}$ ", D. P. Young, R. G. Goodrich, and P. W. Adams, *Phys. Rev. B* **65**, 180518(R) (2002).
39. "Electrodeposition of FeCoNiCu/Cu Compositionally Modulated Multilayers", Q. Huang, D. P. Young, J. Y. Chan, J. Jiang, and E. J. Podlaha, *Journal of The Electrochemical Society* **149** (6) C349-C354 (2002).
40. " ^{11}B -NMR in CaB_6 ", J. L. Gavilano, Sh. Mushkolaj, D. Rau, H. R. Ott, A. Bianchi, D. P. Young and Z. Fisk, *Physica B* **312-313**, 813-814 (2002)
41. "High-Pressure and High-Temperature Synthesis of a Novel Perovskite Compound: Magnetic and Electric Properties of the Rhodium Oxide SrRhO_3 ", K. Yamaura, D. P. Young, and E. Takayama-Muromachi, *Mat. Res. Soc. Symp. Proc.* **718** (2002) Material Research Society.
42. "Crystal structure and electronic and magnetic properties of the bilayered rhodium oxide $\text{Sr}_3\text{Rh}_2\text{O}_7$ ", K. Yamaura, Q. Huang, D.P. Young, Y. Noguchi, and E. Takayama-Muromachi, *Physical Review B* **66**, 134431 (2002).
43. "Magnetic properties – parasitic ferromagnetism in the hexaborides? Reply", D.P. Young, Z. Fisk, J.D. Thompson, H.R. Ott, S.B. Oseroff, and R.G. Goodrich, *Nature* **420**, 144 (2002).
44. "High magnetic field sensor using LaSb_2 ", D.P. Young, R.G. Goodrich, J.F. DiTusa, S. Guo, and P.W. Adams, *Applied Physics Letters* **82**, 3713 (2003).
45. "Superconducting properties of MgCNi_3 films", D.P. Young, M. Moldovan, D. Craig, J.Y. Chan, and P.W. Adams, *Phys. Rev. B* **68**, 020501(R) (2003).
46. "Synthesis, structure, and magnetism of a new heavy fermion – CePdGa_6 ", R.T. Macaluso, S. Nakatsuji, H. Lee, Z. Fisk, M. Moldovan, D.P. Young, and J.Y. Chan, *Journal of Solid State Chemistry* **174**, 296 (2003).
47. "Magnetoresistance of electrodeposited FeCoNiCu/Cu multilayers", Q. Huang, D.P. Young, and E.J. Podlaha, *Journal of Applied Physics* **94**, 1864 (2003).

48. "Synthesis, structure and magnetoresistance of SmPd_2Ga_2 ", W.M. Williams, R.T. Macaluso, D.P. Young, and J.Y. Chan, *Inorganic Chemistry* **42**, 7315 (2003).
49. "Ferromagnetic transition in the correlated 4d perovskites $\text{SrRu}_{1-x}\text{Rh}_x\text{O}_3$ ", K. Yamaura, D.P. Young, and E. Takayama-Muromachi, *Phys. Rev. B* **69**, 024410 (2004).
50. "New aspects of the temperature – magnetic field phase diagram of CeB_6 ", R.G. Goodrich, D.P. Young, D. Hall, Z. Fisk, N. Harrison, J. Betts, A. Migliori, F.M. Woodward, and J.W. Lynn, *Phys. Rev. B* **69**, 054415 (2004).
51. "Angle-resolved photoemission study and first principles calculation of the electronic structure of LaSb_2 ", Alice. I. Acatrinei, D. Browne, Y. Losovyj, D.P. Young, M. Moldovan, JuliaY. Chan, P. T. Sprunger, and Richard L. Kurtz, *J. Phys.: Condens. Matter* **15**, L511-L517 (2003).
52. "Electronic properties of novel 4d metallic oxide SrRhO_3 ", K. Yamaura, Q. Huang, D.P. Young, M. Arai, E. Takayama-Muromachi, *Physica B* **329-333**, 820 (2003).
53. "Weak ferromagnetism in CaB_6 ", M. C. Bennett, J. van Lierop, E. M. Berkeley, J. F. Mansfield, C. Henderson, M. C. Aronson, D. P. Young, A. Bianchi, Z. Fisk, F. Balakirev, and A. Lacerda, *Phys. Rev. B* **69**, 132407 (2004).
54. "Electronic Transport in EuB_6 ", G.A. Wigger, R. Monnier, H.R. Ott, D.P. Young, and Z. Fisk, *Phys. Rev. B* **69**, 125118 (2004).
55. "de Haas and Alphen Measurements of the electronic structure of LaSb_2 ", R.G. Goodrich, D. Browne, R. Kurtz, D.P. Young, J.F. Ditusa, P.W. Adams, and D. Hall, *Phys. Rev. B* **69**, 125114 (2004).
56. "Large anomalous Hall effect in a silicon-based magnetic semiconductor", N. Manyala, Y. Sidis, J.F. DiTusa, G. Aeppli, D.P. Young, and Z. Fisk, *Nature Materials* **3**, 255-262 (2004).
57. "Scaling behavior of the critical current density in MgCNi_3 microfibers", D.P. Young, M. Moldovan, and P.W. Adams, *Phys. Rev. B* **70**, 064508 (2004).
58. "Synthesis, structure, and physical properties of $\text{Ce}_2\text{PdGa}_{10}$ ", J.N. Millican, R. Macaluso, D.P. Young, M. Moldovan, and J.Y. Chan, *Journal of Solid State Chemistry* **177**, 4695-4700 (2004).
59. "Low-temperature susceptibility of the noncentrosymmetric superconductor CePt_3Si ", D.P. Young, M. Moldovan, X.S. Wu, J.Y. Chan, and P.W. Adams, *Phys. Rev. Lett.* **94**, 1070011 (2005).

60. "Magneto-optical studies of flux penetration in super-hard Nb wire", D.P. Young, M. Moldovan, P.W. Adams, and R. Prozorov, *Supercond. Sci. Technol.* **18**, 776-779 (2005).
61. "Super-small energy gaps of single-walled carbon nanotube strands", H. Zhu, G-L. Zhao, C. Masarapu, D.P. Young, B. Wei, *Appl. Phys. Lett.* **86**, 203107 (2005).
62. "Magnetic studies of the lightly Ru doped perovskite rhodates $\text{Sr}(\text{Ru,Rh})\text{O}_3$ ", K. Yamaura, D.P. Young, and E. Takayama-Muromachi, *Physica B* **359-361**, 1261-1263 (2005).
63. "Synthesis, structure, and magnetism $\text{Tb}_4\text{PdGa}_{12}$ and $\text{Tb}_4\text{PtGa}_{12}$ ", W.M. Williams, M. Moldovan, D.P. Young, and J.Y. Chan, *J. Solid State Chem.* **178**, 52-57 (2005).
64. "Synthesis, structure, and magneto-transport of $\text{LnNi}_{1-x}\text{Sb}_2$ ($\text{Ln} = \text{Y, Gd-Er}$)", E.L. Thomas, M. Moldovan, D.P. Young, and J.Y. Chan, *Chem. Mater.* **17**, 5810-5816 (2005).
65. "Electrochemical inspection of electrodeposited giant magnetoresistance CoNiCu/Cu multilayer films", J. Zhang, M. Moldovan, D.P. Young, and E.J. Podlaha, *J. Electrochem. Soc.* **152** (9), C626-C630 (2005).
66. "High-Pressure Synthesis, Crystal Structure Determination, and a Ca Substitution Study of the Metallic Rhodium Oxide NaRh_2O_4 ", K. Yamaura, Q. Huang, M. Moldovan, D.P. Young, A. Sato, Y. Baba, T. Nagai, Y. Matsui, and E. Takayama-Muromachi, *Chem. Mater.* **17**, 359-365 (2005).
67. "Crystal growth, transport, and magnetic properties of $\text{Ln}_3\text{Co}_4\text{Sn}_{13}$ ($\text{Ln} = \text{La, Ce}$) with a perovskite-like structure", E.L. Thomas, H.-O. Lee, A.N. Bankston, S. MaQuilon, P. Lkavins, M. Moldovan, D.P. Young, Z. Fisk, and J.Y. Chan, *J. Solid State Chem.* **179**, 1642 (2006).
68. "Suppressed reflectivity due to spin-controlled localization in a magnetic semiconductor", F. P. Mena, J. F. DiTusa, D. van der Marel, G. Aeppli, D. P. Young, A. Damascelli, and J. A. Mydosh, *Phys. Rev. B* **73**, 085205 (2006).
69. "Crystal Growth, Structure, Magnetic, and Transport Properties of TbRhIn_5 ", Willa M. Williams, Long Pham, Samuel MaQuilon, Monica Moldovan, Zachary Fisk, David P. Young, and Julia Y. Chan, *Inorg. Chem.* **45**, 4637-4641 (2006).
70. "Metallic conductivity and a Ca substitution study of NaRh_2O_4 comprising a double chain system", K. Yamaura, Q. Huang, M. Moldovan, D.P. Young, X.L. Wang, and E. Takayama-Muromachi, *Physica B* **378-380**, 1134-1135 (2006).

71. "Anomalous flux dynamics in magnesium diboride films", Kunchur MN, Saracila G, Arcos DA, Cui Y, Pogrebnyakov A, Orgiani P, Xi XX, Adams PW, Young DP, *Physica C – Superconductivity and its Applications* 437-38, 171-175 (2006).
72. "Magnetoresistance in Electrodeposited CoNiFe/Cu Multilayered Nanotubes", Depsina M. Davis, Monica Moldovan, David P. Young, Margaret Henk, Xiaogang Xie, and Elizabeth J. Podlaha, *Electrochemical and Solid-State Letters* 9 (9), C153-C155 (2006).
73. "Specific-heat evidence of strong electron correlations and thermoelectric properties of the ferromagnetic perovskite SrCoO₃-delta", Balamurugan, S., Yamaura, K., Karki, A. B., Young, D. P., Arai, M. Takayama-Muromachi, E., *Phys. Rev. B* 74, 172406 (2006).
74. "Crystal growth, structure, and physical properties of CeNi_xBi₂", Thomas, Shayla T., Gautreaux, Dixie P., Moldovan, Monica, Young, David P., Chan, Julia Y., *Abstracts of Papers of the ACS* 231: 476-INOR (2006).
75. "Giant magnetoresistance behavior of an iron/carbonized polyurethane nanocomposite", Guo, Z., Park, S., Hahn, H.T., Wei, S., Moldovan, M., Karki, A.B., and Young, D.P., *Appl. Phys. Lett.* 90, 053111 (2007).
76. "Magnetism of the cubic Laves ferromagnet TbNi₂Mn investigated through ambient pressure magnetization and specific heat and high pressure ac magnetic susceptibility", D.D. Jackson, S.K. McCall, S.T. Weir, D.P. Young, W. Qiu, Y.K. Vohra, *Phys. Rev. B* 75, 224422 (2007).
77. "Crystal growth and magnetic properties of Ln₄MGa₁₂ (Ln = Dy – Er; N = Pd, Pt)", Jung Young Cho, Monica Moldovan, David P. Young, and Julia Y. Chan, *J. Phys.: Condensed Matter* 19, 266224 (2007).
78. "Title: Magnetic and electromagnetic evaluation of the magnetic nanoparticle filled polyurethane nanocomposites", Guo, Zhanhu, Park, Sung, Hahn, H. Thomas, Wei, Suying, Moldovan, Monica, Karki, Amar B., Young, David P., *J. Appl. Phys.* 101 (9), 09M511 (2007).
79. "Flexible high-loading particle-reinforced polyurethane magnetic nanocomposite fabrication through particle-surface-initiated polymerization", Z. Guo, S. Park, S. Wei, T. Pereira, M. Moldovan, A. B. Karki, D.P. Young, and H. Thomas Hahn, *Nanotechnology* 18, 335704 (2007).
80. "Unconventional ferromagnetic ordering of Ce in the anisotropic metal CeCrSb₃", D.D. Jackson, S.K. McCall, A.B. Karki, and D.P. Young, *Phys. Rev. B* 76, 064408 (2007).

81. Z. Guo, M. Moldovan, D.P. Young, L.L. Henry, and E.J. Podlaha, "Magnetoresistance and annealing behaviors of particulate Co-Au nanocomposites", *Electrochem. Solid-State Lett.* **10** (12), E31-E35 (2007).
82. K. Yamaura, M. Arai, A. Sato, A.B. Karki, D.P. Young, R. Movshovich, S. Okamoto, D. Mandrus, E. Takayama-Muromachi, "NaV₂O₄: a Quasi-1D Metallic Antiferromagnet with Half-Metallic Chains", *Phys. Rev. Lett.* **99**, 196601 (2007).
83. "Discovery of Griffiths phase in itinerant magnetic semiconductor Fe_{1-x}Co_xS₂", S. Guo, D.P. Young, R.T. Macaluso, D.A. Browne, and J.F. DiTusa, *Phys. Rev. Lett.* **100**, 017209 (2008).
84. "Magnetotransport properties and the Fermi surface of single crystal VB₂", A.B. Karki, D.P. Gautreaux, J.Y. Chan, D.B. Browne, N. Harrison, R.G. Goodrich, and D.P. Young, *J. Phys.: Condens. Matter* **20**, 035209 (2008).
85. "Self-assembly of multi-walled carbon nanotubes from quench-condensed CNi₃ films", D.P. Young, A.B. Karki, P.W. Adams, J.N. Ngunjiri, J. C. Garno, H. Zhu, B. Wei, and D. Moldovan, *J. Appl. Phys.* **103**, 053503 (2008).
86. "Magnetization and transport properties of α -CeNi(0.78)Co(0.22)Sb(3)", D.P. Gautreaux, M. Parent, M. Moldovan, D.P. Young, and J.Y. Chan, *Physica B* **403**, 1005 (2008).
87. "Magnetic properties of the single crystal stannides Ln(7)Co(6)Sn(23) (Ln = Dy, Ho) and Ln(5)Co(6)Sn(18) (Ln = Er, Tm)", E.K. Okudzeto, E.L. Thomas, M. Moldovan, D.P. Young, and J. Y. Chan, *Physica B* **403**, 1628 (2008).
88. "Physical properties of LnAg(y)X(4-y) (Ln = La, Ce; X = Al, Ga; y ~ 0.72)", J.Y. Cho, M. Moldovan, D.P. Young, N.D. Lowhorn, and J.Y. Chan, *Physica B* **403**, 795 (2008).
89. "Critical current behavior of superconducting MoN and Mo₃Sb₇ microfibers", A.B. Karki, D.P. Young, P.W. Adams, E.K. Okudzeto, and J.Y. Chan, *Phys. Rev. B* **77**, 212503 (2008).
90. "Magnetic and magnetoresistance behaviors of particulate iron/vinyl ester resin nanocomposites", Z. Guo, H. Thomas Hahn, H. Lin, A.B. Karki, and D.P. Young, *J. Appl. Phys.* **104**, 014314 (2008).
91. "Facile monomer stabilization approach to fabricate iron/vinyl ester resin nanocomposites", Z. Guo, H. Lin, A.B. Karki, S. Wei, D.P. Young, S. Park, J. Willis, and T.H. Hahn, *Composites Science and Technology* **68**, 2551-2556 (2008).

92. "Electrodeposited Co-Cu/Cu multilayered microposts, Y. Li, M. Moldovan, D.P. Young, and E.J. Podlaha, *Journal of Magnetism and Magnetic Materials* **320**, 3282-3287 (2008).
93. "Crystal growth, structure, and physical properties of Ln_2MGa_{12} ($Ln = La, Ce; M = Ni, Cu$), J.Y. Cho, J.N. Millican, C. Capan, D.A. Sokolov, M. Moldovan, A.B. Karki, D.P. Young, M.C. Aronson, and J.Y. Chan, *Chemistry of Materials* **20**, 6116-6123 (2008).
94. "Crystal growth, structure, and physical properties of $SmCu_4Ga_8$, J.Y. Cho, C. Capan, D.P. Young, and J.Y. Chan, *Inorganic Chemistry* **47**, 2472-2476 (2008).
95. "Synthesis, structure, and physical properties of $LnNi(Sn,Sb)_3$ ($Ln = Pr, Nd, Sm, Gd, Tb$), D.P. Gautreaux, C. Capan, J.F. DiTusa, D.P. Young, and J.Y. Chan, *Journal of Solid State Chemistry* **181**, 1977-1982 (2008).
96. "Synthesis and Magnetic and Charge-Transport Properties of the Correlated 4d Post-Perovskite $CaRhO_3$ ", K. Yamaura, Y. Shirako, H. Kojitani, M. Arai, D. P. Young, M. Akaogi, M. Nakashima, T. Katsumata, Y. Inaguma, and E. Takayama-Muromachi, *Journal of the American Chemical Society* **131**, 2722-2726 (2009).
97. "Spin-orbit scattering and quantum metallicity in ultrathin Be films", Y.M. Xiong, A.B. Karki, D.P. Young, and P.W. Adams, *Physical Review B* **79**, 020210(R) (2009).
98. "Investigation of the effect of Ni substitution on the physical properties of $Ce(Cu_{1-x}Ni_x)_ySb_2$ ", D.P. Gautreaux, M. Parent, A.B. Karki, D.P. Young, and J.Y. Chan, *Journal of Physics: Condensed Matter* **21**, 056006 (2009).
99. "Fabrication, characterization and microwave properties of polyurethane nanocomposites reinforced with iron oxide and barium titanate nanoparticles", Z. Guo, S.-E. Lee, H. Kim, S. Park, H.T. Hahn, A.B. Karki, and D.P. Young, *Acta Materialia* **57**, 267-277 (2009).
100. "Superconducting and magnetotransport properties of $ZnNNi_3$ microfibers and films", A. B. Karki, Y. M. Xiong, D. P. Young, and P. W. Adams, *Phys. Rev. B* **79**, 212508 (2009).
101. "Crystal Growth, Structure, and Physical Properties of $Ln(Cu,Ga)_{13-x}$ ($Ln = La-Nd, Eu; x$ approximate to 0.2)", J.Y. Cho, E.L. Thomas, Y. Nambu, C. Capan, A.B. Karki, D.P. Young, K. Kuga, S. Nakatsuji, and J.Y. Chan, *Chemistry of Materials* **21**, 3072 (2009).
102. "Fermi surface changes in $La_{1-x}Sm_xB_6$ and $Ce_{1-x}Ca_xB_6$ studied using the de Haas-van Alphen effect and magnetic susceptibility", R. G. Goodrich, D. P. Young, N. Harrison, C. Capan, and Z. Fisk, *Phys. Rev. B* **80**, 233101 (2009).

103. "Electrospun polyacrylonitrile nanocomposite fibers reinforced with Fe₃O₄ nanoparticles: Fabrication and property analysis", D. Zhang, A.B. Karki, D. Rutman, D.P. Young, A. Wang, D. Cocke, T.H. Ho, and Z. Guo, *Polymer* **50**, 4189-4198 (2009).
104. "Fabrication and characterization of iron oxide nanoparticles filled polypyrrole nanocomposites", Z. Guo, K. Shin, A.B. Karki, D.P. Young, R.B. Kaner, H. Thomas Hahn, *J. Nanopart. Res.* **11**, 1441-1452 (2009).
105. "Crystal Growth, Transport, and the Structural and Magnetic Properties of Ln₄FeGa₁₂ with Ln = Y, Tb, Dy, Ho, and Er", Brenton L. Drake, Fernande Grandjean, Michael J. Kangas, Edem K. Okudzeto, Amar B. Karki, Moulay T. Sougrati, David P. Young, Gary J. Long, and Julia Y. Chan, *Inorg. Chem.* **49**, 445456 (2010).
106. "Conductive Polypyrrole/Tungsten Oxide Metacomposites with Negative Permittivity", J. Zhu, S. Wei, L. Zhang, Y. Mao, J. Ryu, P. Mavinakuli, A.B. Karki, D.P. Young, and Z. Guo, *J. Phys. Chem. C* **114**, 16335-16342 (2010).
107. "Crystal growth, structure, and physical properties of Ln(Cu, Al)₁₂ (Ln = Y, Ce, Pr, Sm, and Yb) and Ln(Cu, Ga)₁₂ (Ln = Y, GdEr, and Yb)", Brenton L. Drake, C. Capan, Jung Young Cho, Y. Nambu, K. Kuga, Y.M. Xiong, A. B. Karki, S. Nakatsuji, P.W. Adams, D.P. Young, and Julia Y. Chan, *J. Phys.: Condens. Matter* **22**, 066001 (2010).
108. "Polypyrrole/silicon carbide nanocomposites with tunable electrical conductivity", P. Mavinakuli, S.Y. Wei, Q. Wang, A.B. Karki, S. Dhage, Z. Wang, D.P. Young, and Z.H. Guo, *J. Phys. Chem. C* **114**, 3874-3882 (2010).
109. "Carbon-stabilized iron nanoparticles for environmental remediation", Di Zhang, S. Wei, C. Kaila, X. Su, J. Wu, A.B. Karki, D.P. Young, and Z. Guo, *Nanoscale* **2**, 917-919 (2010).
110. "Magnetic and thermodynamic properties of cobalt-doped iron pyrite: Griffiths phase in a magnetic semiconductor", S. Guo, D. P. Young, R. T. Macaluso, D. A. Browne, N. L. Henderson, J. Y. Chan, L. L. Henry, and J. F. DiTusa, *Phys. Rev. B* **81**, 144423 (2010).
111. "Charge transport in cobalt-doped iron pyrite", S. Guo, D. P. Young, R. T. Macaluso, D. A. Browne, N. L. Henderson, J. Y. Chan, L. L. Henry, and J. F. DiTusa, *Phys. Rev. B* **81**, 144424 (2010).
112. "Crystal growth and physical properties of Ln₂MGa₁₂ (Ln=Pr, Nd, and Sm; M=Ni, Cu)", K. R. Thomas, J. Y. Cho, J. N. Millican, R. D. Hembree, M. Moldovan, A. B. Karki, D. P. Young, and Julia Y. Chan, *J. Cryst. Growth* **312**, 1098-1103 (2010).

113. “Crystal growth and properties of $\text{Ln}_2\text{Ag}_{1-x}\text{Ga}_{10-y}$ ($\text{Ln} = \text{La}, \text{Ce}$), a disordered variant of the $\text{Ce}_2\text{NiGa}_{10}$ -structure type”, M.C. Menard, Y. Xiong, A.B. Karki, B.L. Drake, P.W. Adams, F.R. Fronczek, D.P. Young, and J.Y. Chan, *Journal of Solid State Chemistry* **183**, 1935 – 1942 (2010).
114. “Electrospun Magnetic Fibrillar Polystyrene Nanocomposites Reinforced with Nickel Nanoparticles”, X. Chen, S. Wei, C. Gunesoglu, J. Zhu, C.S. Southworth, L. Sun, A.B. Karki, D.P. Young, Z. Guo, *Macromol. Chem. Phys.* **211**, 1775–1783 (2010).
115. “Effects of iron oxide nanoparticles on polyvinyl alcohol: interfacial layer and bulk nanocomposites thin film”, Z. Guo, D. Zhang, S. Wei, Z. Wang, A.B. Karki, Y. Li, P. Bernazzani, D.P. Young, J. A. Gomes, D.L. Cocke, Thomas C. Ho, *J. Nanopart. Res.* **12**, 2415–2426 (2010).
116. “Structure and physical properties of the noncentrosymmetric superconductor $\text{Mo}_3\text{Al}_2\text{C}$ ”, A. B. Karki, Y. M. Xiong, I. Vekhter, D. Browne, P. W. Adams, D. P. Young, K. R. Thomas, Julia Y. Chan, H. Kim, and R. Prozorov, *Phys. Rev. B* **82**, 064512 (2010).
117. “Fermi surface evolution through a heavy-fermion superconductor-to-antiferromagnet transition: de Haas–van Alphen effect in Cd-substituted CeCoIn_5 ”, C. Capan, Y.-J. Jo, L. Balicas, R. G. Goodrich, J. F. DiTusa, I. Vekhter, T. P. Murphy, A. D. Bianchi, L. D. Pham, J. Y. Cho, J. Y. Chan, D. P. Young, and Z. Fisk, *Phys. Rev. B* **82**, 035112 (2010).
118. “Synthesis, structure, magnetic and transport properties of LnFeSb_3 ($\text{Ln} = \text{Pr}, \text{Nd}, \text{Sm}, \text{Gd}, \text{and Tb}$) – tuning of anisotropic long-range magnetic order as a function of Ln ”, W.A. Phelan, G.V. Nguyen, A.B. Karki, D.P. Young, Julia Y. Chan, *Dalton Trans.* **39**, 6403–6409 (2010).
119. “Electrodeposited, GMR CoNiFeCu Nanowires and Nanotubes from Electrolytes Maintained at Different Temperatures”, D. Davis, M. Zamanpour, M. Moldovan, D. Young, and E.J. Podlaha, *J. Electrochem. Soc.* **157**, D317 (2010).
120. “Electrospun Polyimide Nanocomposite Fibers Reinforced with Core-Shell Fe-FeO Nanoparticles”, Jiahua Zhu, Suying Wei, Xuelong Chen, Amar B. Karki, Dan Rutman, David P. Young, and Zhanhu Guo, *J. Phys. Chem. C* **114**, 8844–8850 (2010).
121. “Magnetic and Magnetoresistance Behaviors of Solvent Extracted Particulate Iron/Polyacrylonitrile Nanocomposites”, Di Zhang, Ruby Chung, Amar B. Karki, Feng Li, David P. Young, and Zhanhu Guo, *J. Phys. Chem. C* **114**, 212–219 (2010).

122. “Crystal growth, structure, and physical properties of Ln (Ag, Al, Si)₂ (Ln = Ce and Gd)”, B.L. Drake, M.J. Kangas, C. Capan, N. Haldolaarachchige, Y. Xiong, P.W. Adams, D.P. Young, and Julia Y. Chan, *J. Phys.: Condens. Matter* **22**, 426002 (2010).
123. “A Novel Experimental Device for Seebeck Coefficient Measurements of Bulk Materials, Thin Films, and Nanowire Composites”, D. Pinisetty, N. Haldolaarachchige, D.P. Young, and R.V. Devireddy, *J. Nanotechnol. Eng. Medicine* **2**, 011006 (2011).
124. “Effect of chemical doping on the thermoelectric properties of FeGa₃”, N. Haldolaarachchige, A. B. Karki, W. Adam Phelan, Y. M. Xiong, R. Jin, Julia Y. Chan, S. Stadler, and D. P. Young, *J. Appl. Phys.* **109**, 103712 (2011).
125. “Dimensional crossover in the electrical and magnetic properties of the layered LaSb₂ superconductor under pressure: The role of phase fluctuations”, S. Guo, D.P. Young, P.W. Adams, X.S. Wu, Julia Y. Chan, G.T. McCandless, and J.F. DiTusa, *Phys. Rev. B* **83**, 174520 (2011).
126. “Magnetic polyacrylonitrile Fe@FeO nanocomposite fibers - Electrospinning, stabilization and carbonization”, Jiahua Zhu, Suying Wei, Dan Rutman, Neel Haldolaarachchige, David P. Young, and Zhanhu Guo, *Polymer* **52**, 2947-2955 (2011).
127. “Fabrication and characterization of electrodeposited antimony telluride crystalline nanowires and nanotubes”, D. Pinisetty, M. Gupta, A.B. Karki, D.P. Young, and R.V. Devireddy, *J. Mater. Chem.* **21**, 4098-4107 (2011).
128. “A Tale of Two Polymorphs – Growth and Characterization of α-LnNiGa₄ (Ln = Y, Gd–Yb) and β-LnNi_{1-x}Ga₄ (Ln = Tb–Er)”, Melissa C. Menard, Brenton L. Drake, Gregory T. McCandless, Kandace R. Thomas, Richard D. Hembree, Neel Haldolaarachchige, John F. DiTusa, David P. Young, and Julia Y. Chan, *Eur. J. Inorg. Chem.* 3909–3919 (2011).
129. “Crystal Structure and Physical Properties of Yb₃Co_{4-x}Ru_xSn₁₃ (x = 0, 0.38)”, Devin C. Schmitt, Neel Haldolaarachchige, David P. Young, Rongying Jin, and Julia Y. Chan, *Z. Anorg. Allg. Chem.* **637**, 1–7 (2011).
130. “Ex Situ Solvent-Assisted Preparation of Magnetic Poly(propylene) Nanocomposites Filled with Fe@FeO Nanoparticles”, Suying Wei, Rahul Patil, Luyi Sun, Neel Haldolaarachchige, Xuelong Chen, David P. Young, and Zhanhu Guo, *Macromol. Mater. Eng.* **296**, 850–857 (2011).
131. “Electromagnetic Field Shielding Polyurethane Nanocomposites Reinforced with Core-Shell Fe-Silica Nanoparticles”, Jiahua Zhu, Suying Wei, Neel Haldolaarachchige, David P. Young, and Zhanhu Guo, *J. Phys. Chem. C* **115**, 15304–15310 (2011).

132. “Polypyrrole-Titania Nanocomposites Derived from Different Oxidants”, Suying Wei, Pallavi Mavinakuli, Qiang Wang, Daniel Chen, Ramesh Asapu, Yuanbing Mao, Neel Haldolaarachchige, David P. Young, and Zhanhu Guob, *J. Electrochem. Soc.* **158**, K205 – K212 (2011).

133. “Comprehensive and sustainable recycling of polymer nanocomposites”, Jiahua Zhu, Suying Wei, Yunfeng Li, Sameer Pallavkar, Hongfei Lin, Neel Haldolaarachchige, Zhiping Luo, David P. Young and Zhanhu Guo, *J. Mater. Chem.* **21**, 16239-16246 (2011).

134. “Electrical and dielectric properties of polyaniline–Al₂O₃ nanocomposites derived from various Al₂O₃ nanostructures”, Jiahua Zhu, Suying Wei, Lei Zhang, Yuanbing Mao, Jongeun Ryu, Neel Haldolaarachchige, David P. Young, and Zhanhu Guo, *J. Mater. Chem.* **21**, 3952 (2011).

135. “Polyaniline-tungsten oxide metacomposites with tunable electronic properties”, Jiahua Zhu, Suying Wei, Lei Zhang, Yuanbing Mao, Jongeun Ryu, Amar B. Karki, David P. Young, and Zhanhu Guo, *J. Mater. Chem.* **21**, 342-348 (2011).

136. “Surfactant-Free Synthesized Magnetic Polypropylene Nanocomposites: Rheological, Electrical, Magnetic, and Thermal Properties”, J. Zhu, S. Wei, Y. Li, L. Sun, N. Haldolaarachchige, D.P. Young, C. Southworth, Airat Khasanov, Z. Luo, and Z. Guo, *Macromolecules* **44**, 4382-4391 (2011).

137. “Characterization of electrodeposited bismuth-tellurium nanowires and nanotubes”, D. Pinisetty, D. Davis, E.J. Podlaha-Murphy, M.C. Murphy, A.B. Karki, D.P. Young, and R.V. Devireddy, *Acta Materialia* **59**, 2455 – 2461 (2011).

138. “Magnetotransport properties of thin C-Fe films”, J.C. Prestigiacomo, K.L. Lusker, Y.M. Xiong, S. Stadler, A.B. Karki, D.P. Young, J.C. Garno, and P.W. Adams, *Thin Solid Films* **519**, 2362 – 2365 (2011).

139. “Physical properties of the noncentrosymmetric superconductor Nb_{0.18}Re_{0.82}”, A.B. Karki, Y.M. Xiong, N. Haldolaarachchige, S. Stadler, I. Vekhter, P.W. Adams, W.A. Phelan, J.Y. Chan, and D.P. Young, *Phys. Rev. B* **83**, 144525 (2011).

140. “Structure and properties of rhombohedral CePd₃Ga₈: A variant of the cubic parent compound with BaHg₁₁ structure type”, Robin T. Macaluso, Melanie Francisco, David P. Young, Shane Stadler, John F. Mitchell, Urs Geiser, Han-yul Hong, and Mercuri G. Kanatzidis, *Journal of Solid State Chemistry* **184**, 3185 - 3189 (2011).

141. “Synthesis, Structure, and Physical Properties of Ln(Cu,Al,Ga)(13-x) (Ln = La-Pr, and Eu) and Eu(Cu,Al)(13-x)”, Phelan, W. Adam, Kangas, Michael J.,

McCandless, Gregory T., Drake, B.L., Haldolaarachchige, N., Zhao, L.L., Wang, J.K., Wang, X.P., Young, D.P., Morosan, E., Hoffmann, C., and Chan, J.Y., *Inorganic Chemistry* **51**, 10193-10202 (2012).

142. "Crystal growth and magnetic properties of Ln-Mn-Al (Ln=Gd, Yb) compounds of the CaCr₂Al₁₀ and ThMn₁₂ structure types", Fulfer, Bradford W., Haldolaarachchige, Neel, Young, David P., and Chan, Julia Y., *Journal of Solid State Chemistry* **194**, 143-150 (2012).

143. "Magnetic electrospun fluorescent polyvinylpyrrolidone nanocomposite fibers", Chen, Minjiao, Qu, Honglin, Zhu, Jiahua, Luo, Z., Khasanov, A., Kucknoor, A.S., Haldolaarachchige, N., Young, D.P., Wei, S., and Guo, Z., *Polymer* **53**, 4501-4511 (2012).

144. "Magnetic and transport properties of single crystal LnRu(2)Al(10) (Ln = Pr, Gd, Yb)", Morrison, Gregory, Haldolaarachchige, Neel, Young, David P., and Chan, Julia Y., *Journal of Physics Condensed Matter* **24**, 356002 (2012).

145. "Structures and Phase Transitions of CePd_{3+x}Ga_{8-x}: New Variants of the BaHg₁₁ Structure Type", Francisco, Melanie C.; Malliakas, Christos D.; Macaluso, Robin T., Prestigiacomo, J., Haldolaarachchige, N., Adams, P.W., Young, D.P., Jia, Y., Claus, H., Gray, K.E., and Kanatzidis, M.G., *Journal of the American Chemical Society* **134**, 12998-13009 (2012).

146. "Magnetoresistive Conductive Polyaniline-Barium Titanate Nanocomposites with Negative Permittivity", Zhang, Xi, Wei, Suying, Haldolaarachchige, Neel, Colorado, H.A., Luo, Z., Young, D.P., and Guo, Z., *Journal of Physical Chemistry* **116**, 15731-15740 (2012).

147. "Magnetic high density polyethylene nanocomposites reinforced with in-situ synthesized Fe@FeO core-shell nanoparticles", He, Qingliang; Yuan, Tingting; Zhu, Jiahua, Luo, Z., Haldolaarachchige, N., Sun, L., Khasanov, A., Li, Y., Young, D.P., Wei, S., and Guo, Z., *Polymer* **53**, 3642-3652 (2012).

148. "Carbon Nanostructure-Derived Polyaniline Metacomposites: Electrical, Dielectric, and Giant Magnetoresistive Properties", Zhu, Jiahua; Gu, Hongbo; Luo, Zhiping, Haldolaarachchige, N., Young, D.P., Wei, S, and Guo, Z., *Langmuir* **28**, 10246-10255 (2012).

149. "Synthetic process engineered polyaniline nanostructures with tunable morphology and physical properties", Zhang, Xi, Zhu, Jiahua, Haldolaarachchige, Neel, Ryu, J., Young, D.P., Wei, S., and Guo, Z., *Polymer* **53**, 2109-2120 (2012).

150. "Probing the Lower Limit of Lattice Thermal Conductivity in an Ordered Extended Solid: Gd₁₁₇Co₅₆Sn₁₁₂, a Phonon Glass-Electron Crystal System", Schmitt, Devin C., Haldolaarachchige, Neel, Xiong, Yimin, Young, D.P., Jin, R.,

and Chan, J.Y., *Journal of the American Chemical Society* **134**, 5965-5973 (2012).

151. "Crystal growth, structure, and physical properties of Ln(2)PdGa(12) (Ln = La, Pr, Nd, and Sm)", Kangas, Michael J., Drake, Brenton L., Haldolaarachchige, Neel, Young, D.P., and Chan, J.Y., *Journal of Alloys and Compounds* **514**, 64-70 (2012).

152. "Magnetoresistive polyaniline-magnetite nanocomposites with negative dielectrical properties", Hongbo, Huang, Yudong, Zhang, Xi, Wang, Q., Zhu, J., Shao, L., Haldolaarachchige, N., Young, D.P., Wei, S., and Guo, Z., *Polymer* **53**, 801-809 (2012).

153. "One-Pot Synthesis of Magnetic Graphene Nanocomposites Decorated with Core@Double-shell Nanoparticles for Fast Chromium Removal", Zhu, Jiahua, Wei, Suying, Gu, Hongbo, Rapole, S.B., Wang, Q., Luo, Z., Haldolaarachchige, N., Young, D.P., and Guo, Z., *Environmental Science and Technology* **46**, 977-985 (2012).

154. "Morphology- and Phase-Controlled Iron Oxide Nanoparticles Stabilized with Maleic Anhydride Grafted Polypropylene", He, Qingliang, Yuan, Tingting, Wei, Suying, Haldolaarachchige, N., Luo, Z., Young, D.P., Khasanov, A., and Guo, Z., *Angewandte Communications International Edition* **51**, 8842-8845 (2012).

155. "Serendipitous growth of single crystals with silicon incorporation", Morrison, Gregory W., Menard, Melissa C., Treadwell, LaRico J., Haldolaarachchige, N., Kendrick, K.C., Young, D.P., and Chan, J.Y., *Philosophical Magazine* **92**, 2524-2540 (2012).

156. "Looped carbon capturing and environmental remediation: case study of magnetic polypropylene nanocomposites", Zhu, Jiahua, Gu, Hongbo, Rapole, Sowjanya B., Luo, Z., Pallavkar, S., Haldolaarachchige, N., Benson, T.J., Ho, T.C., Hopper, J., Young, D.P., Wei, S., and Guo, Z., *RSC Advances* **2**, 4844-4856 (2012).

157. "Polypyrrole metacomposites with different carbon nanostructures", Zhu, Jiahua, Zhang, Xi, Haldolaarachchige, Neel, Wang, Q., Luo, Z., Ryu, J., Young, D.P., Wei, S., and Guo, Z., *Journal of Materials Chemistry* **22**, 4996-5005 (2012).

158. "Magnetic graphene nanocomposites: electron conduction, giant magnetoresistance and tunable negative permittivity", Zhu, Jiahua, Luo, Zhiping, Wu, Shijie, Haldolaarachchige, N., Young, D.P., Wei, S., and Guo, Z., *Journal of Materials Chemistry* **22**, 835-844 (2012).

159. "Silica stabilized iron particles toward anti-corrosion magnetic polyurethane nanocomposites", Zhu, Jiahua, Wei, Suying, Lee, Ian Y., Park, S., Willis, J.,

Haldolaarachchige, N., Young, D.P., Luo, Z., and Guo, Z., *RSC Advances* **2**, 1136-1143 (2012).

160. "Very large magnetoresistive graphene disk with negative permittivity", Zhu, Jiahua, Wei, Suying, Haldolaarachchige, Neel, He, J., Young, D.P., and Guo, Z., *Nanoscale* **4**, 152-156 (2012).

161. "Polyaniline Stabilized Magnetite Nanoparticle Reinforced Epoxy Nanocomposites", Gu, H.B., Tadakamalla, S., Huang, Y.D., Colorado, H.A., Luo, Z.P., Haldolaarachchige, N., Young, D.P., Wei, S.Y., and Guo, Z.H., *Acs Applied Materials & Interfaces* **4**, 5613-5624 (2012).

162. "Magnetic polyaniline nanocomposites toward toxic hexavalent chromium removal", Gu, H.B., Rapole, S.B., Sharma, J., Huang, Y.D., Cao, D.M., Colorado, H.A., Luo, Z.P., Haldolaarachchige, N., Young, D.P., Walters, B., Wei, S.Y., and Guo, Z.H., *RSC Advances* **2**, 11007-11018 (2012).

163. "Magnetic carbon nanostructures: microwave energy-assisted pyrolysis vs. conventional pyrolysis", Zhu, JH, Pallavkar, S, Chen, MJ, Yerra, N, Luo, ZP, Colorado, HA, Lin, HF, Haldolaarachchige, N, Khasanov, A, Ho, TC, Young, DP, Wei, SY, Guo, ZH, *Chemical Communications* **49**, 258 (2013).

164. "Magnetite–Polypyrrole Metacomposites: Dielectric Properties and Magnetoresistance Behavior", Jiang Guo, Hongbo Gu, HuiGe Wei, Qianyi Zhang, Neel Haldolaarachchige, Ying Li, David P. Young, Suying Wei, and Zhanhu Guo, *Journal of Physical Chemistry C* **117**, 10191 (2013).

165. "Investigation of Fe incorporation in LnCr(2)Al(20) (Ln = La, Gd, Yb) with Fe-57 Mossbauer and Single Crystal X-ray Diffraction", LaRico J. Treadwell, Jacob D. McAlpin, Devin C. Schmitt, Michael J. Kangas, Moulay T. Sougrati, Neel Haldolaarachchige, David P. Young, Jean-Claude Jumas, and Julia Y. Chan, *Inorganic Chemistry* **52**, 5055 (2013).

166. "Synthesis, Structure, and Magnetic and Electrical Properties of Yb(Mn,M)xAl(12-x) (m = Fe, Ru; x <= 2.5) Phases", Fulfer, BW, McAlpin, JD, Haldolaarachchige, N, Young, DP, Chan, JY, *Crystal Growth & Design* **13**, 1543 (2013).

167. "Giant Magnetoresistive Phosphoric Acid Doped Polyaniline–Silica Nanocomposites", Hongbo Gu, Jiang Gu, Xi Zhang, Qingliang He, Yudong Huang, Henry A. Colorado, Neel Haldolaarachchige, Huolin Xin, David P. Young, Suying Wei, and Zhanhu Guo, *Journal of Physical Chemistry C* **117**, 6426 (2013).

168. "Magnetically Soft and Hard Polypropylene/Cobalt Nanocomposites: Role of Maleic Anhydride Grafted Polypropylene", Qingliang He, Tingting Yua, Xi Zhang, Zhiping Luo, Neel Haldolaarachchige, Luyi Sun, David P. Young, Suying Wei, and Zhanhu Guo, *Macromolecules* **46**, 2357 (2013).

169. "Synthesis, Structure, and Properties of $\text{Ln}_2\text{Ru}_3\text{Al}_{15}$ ($\text{Ln} = \text{Ce}, \text{Gd}$): Comparison with $\text{LnRu}_2\text{Al}_{10}$ and $\text{CeRu}_4(\text{Al},\text{Si})_{15.58}$ ", Gregory Morrison, Neel Haldolaarachchige, Chih-Wei Chen, David P. Young, Emilia Morosan, and Julia Y. Chan, *Inorganic Chemistry* **52**, 3198 (2013).
170. "Thermoelectric properties of intermetallic semiconducting RuIn_3 and metallic IrIn_3 ", N. Haldolaarachchige, W. A. Phelan, Y. M. Xiong, R. Jin, J. Y. Chan, S. Stadler, and D. P. Young, *Journal of Applied Physics* **113**, 083709 (2013).
171. "Structural Complexity Meets Transport and Magnetic Anisotropy in Single Crystalline $\text{Ln}_3\text{ORu}_4\text{Sn}_3$ ($\text{Ln} = \text{Gd}, \text{Dy}$)", Devin C. Schmitt, Neel Haldolaarachchige, Joseph Prestigiacomo, Amar Karki, David P. Young, Shane Stadler, Rongying Jin, and Julia Y. Chan, *Journal of the American Chemical Society* **135**, 2748 (2013).
172. "Giant magnetoresistance in non-magnetic phosphoric acid doped polyaniline silicon nanocomposites with higher magnetic field sensing sensitivity", Gu, HB, Guo, J, Wei, HG, Huang, YD, Zhao, CY, Li, Y, Wu, QL, Haldolaarachchige, N, Young, DP, Wei, SY, Guo, ZH, *Physical Chemistry Chemical Physics* **15**, 10866 (2013).
173. "Iron-core carbon-shell nanoparticles reinforced electrically conductive magnetic epoxy resin nanocomposites with reduced flammability", Xi Zhang, Ouassima Alloul, Jiahua Zhu, Qingliang He, Zhiping Luo, Henry A. Colorado, Neel Haldolaarachchige, David P. Young, T. D. Shen, Suying Wei and Zhanhu Guo, *RSC Advances* **3**, 9453 (2013).
174. "Morphology and phase controlled cobalt nanostructures in magnetic polypropylene nanocomposites: the role of alkyl chain-length in maleic anhydride grafted polypropylene", He, QL, Yuan, TT, Luo, ZP, Haldolaarachchige, N, Young, DP, Wei, SY, Guo, ZH, *Chemical Communications* **49**, 2679 (2013).
175. "Microwave synthesized magnetic tubular carbon nanocomposite fabrics toward electrochemical energy storage", Jiahua Zhu, Minjiao Chen, Narendranath Yerra, Neel Haldolaarachchige, Sameer Pallavkar, Zhiping Luo, Thomas C. Ho, Jack Hopper, David P. Young, Suying Wei and Zhanhu Guo, *Nanoscale* **5**, 1825 (2013).
176. "Magnetic and electrical properties of flux grown single crystals of $\text{Ln}_6\text{M}_4\text{Al}_3$ ($\text{Ln}=\text{Gd}, \text{Yb}$; $\text{M}=\text{Cr}, \text{Mo}, \text{W}$)", Michael J. Kangas, LaRico J. Treadwell, Neel Haldolaarachchige, Jacob D. McAlpin, David P. Young, Julia Y. Chan, *Journal of Solid State Chemistry* **197**, 523 (2013).

177. “Separating positive and negative magnetoresistance for polyaniline-silicon nanocomposites in variable range hopping regime”, Gu, HB, Guo, J, Sadu, R, Huang, YD, Haldolaarachchige, N, Chen, D, Young, DP, Wei, SY, Guo, ZH, *Applied Physics Letters* **102**, 212403 (2013).
178. “Field-pulse memory in a spin-glass”, D.C. Schmitt, J.C. Prestigiacomo, P.W. Adams, D.P. Young, S. Stadler, and J.Y. Chan, *Applied Physics Letters* **103**, 082403 (2013).
179. “Microwave Assisted Formation of Magnetic Core-Shell Carbon Nanostructures”, H.B. Gu, D.W. Ding, P. Sameer, J. Guo, N. Yerra, Y.D. Huang, Z.P. Luo, T.C. Ho, N. Haldolaarachchige, D.P. Young, A. Khasanov, Z.H. Guo, and S.Y. Wei, *ECS Solid State Letters* **2** (12), M65-M68 (2013).
180. “Hexavalent chromium synthesized polyaniline nanostructures: Magnetoresistance and electrochemical energy storage behaviors”, H.B. Gu, H.G. Wei, J. Guo, N. Haldolaarachchige, D.P. Young, S.Y. Wei, and Z.H. Guo, *Polymer* **54** (12), 5974-5985 (2013).
181. “One-pot synthesis of size- and morphology-controlled 1-D iron oxide nanochains with manipulated magnetic properties”, Q.L. He, T.T. Yuan, X.R. Yan, Z.P. Luo, N. Haldolaarachchige, D.P. Young, S.Y. Wei, and Z.H. Guo, *Chem. Commun.* **50** (2), 201-203 (2014).
182. “Positive and negative magnetoresistance phenomena observed in magnetic electrospun polyacrylonitrile-based carbon nanocomposite fibers”, J.H. Zhu, M.J. Chen, H.L. Qu, H.G. Wei, J. Guo, Z.P. Lou, N. Haldolaarachchige, D.P. Young, S.Y. Wei, and Z.H. Guo, *J. Mater. Chem. C* **2** (4), 715-722 (2014).
183. “Magnetic graphene oxide nanocomposites: nanoparticles growth mechanism and property analysis”, Wang, YR, He, QL, Zhang, X, Zhu, JH, Zhao, GL, Yu, JF, Sun, LY, Bhana, S, Khan, MA, Huang, XH, Young, DP, Wang, HW, Wang, XF, Wei, SY, Guo, ZH, *J. Mater. Chem. C* **2**, 9478 – 9488 (2014).
185. “Cellulose derived magnetic mesoporous carbon nanocomposites with enhanced hexavalent chromium removal”, Qiu, B; Gu, HB; Yan, XR; Guo, J; Wang, YR; Sun, DZ; Wang, Q; Khan, M; Zhang, X; Young, DP; Guo, ZH; Wei, SY, *J. Mater. Chem. A* **2**, 17454 – 17462 (2014).
186. “Electromagnetic Field Absorbing Polypropylene Nanocomposites with Tuned Permittivity and Permeability by Nanoiron and Carbon Nanotubes, He, QL; Yuan, TT; Zhang, X; Yan, XR; Guo, J; Ding, DW; Khan, MA; Young, DP; Khasanov, A; Luo, ZP; Liu, JR; Shen, TD; Liu, XY; Wei, SY; Guo, ZH, *J. Phys. Chem. C* **118**, 24784 – 24796 (2014).

187. “Donor and acceptor impurity-driven switching of magnetic ordering in $\text{MnSb}_{2-x}\text{Sn}_x\text{Se}_4$ ”, Djieutedjeu, H; Zhou, XY; Haldolaarachchige, N; Ranmohotti, KGS; Uher, C; Young, D; Poudeu, PFP, *J. Mater. Chem. C* **2**, 6199-6210 (2014).
188. “Magnetocapacitance in magnetic microtubular carbon nanocomposites under external magnetic field”, Zhu, JH; Wei, HG; Yerra, N; Haldolaarachchige, N; Luo, ZP; Young, DP; Ho, TC; Wei, SY; Guo, ZH, *Nano Energy* **6**, 190-192 (2014).
189. “Hall effect and the magnetotransport properties of $\text{Co}_2\text{MnSi}_{1-x}\text{Al}_x$ Heusler alloys”, Prestigiacomo, JC; Young, DP; Adams, PW; Stadler, S, *J. Appl. Phys.* **115**, 043712 (2014).
190. “Reinforced magnetic epoxy nanocomposites with conductive polypyrrole nanocoating on nanomagnetite as a coupling agent”, Guo, J; Zhang, X; Gu, HB; Wang, YR; Yan, XR; Ding, DW; Long, J; Wang, Q; Khan, MA; Liu, JJ; Zhang, X; Weeks, BL; Sun, LY; Young, DP; Wei, SY; Guo, ZH, *RSC Advances* **4**, 36560-36572 (2014).
191. “Maghemite, silver, ceragenin conjugate particles for selective binding and contrast of bacteria”, Hoppens, MA; Wheeler, ZEW; Qureshi, AT; Hogan, K; Wright, A; Stanley, GG; Young, D; Savage, P; Hayes, D, *J. Colloid Interf. Sci.* **13**, 167-174 (2014).
192. “Mesoporous magnetic carbon nanocomposite fabrics for highly efficient Cr(VI) removal”, Zhu, JH (Zhu, Jiahua)[1] ; Gu, HB; Guo, J; Chen, MJ; Wei, HG; Luo, ZP; Colorado, HA; Yerra, N; Ding, D; Ho, TC; Haldolaarachchige, N; Hopper, J; Young, DP; Guo, ZH; Wei, SY, *J. Mat. Chem. A* **2**, 2256-2265 (2014).
193. “Magnetoresistive polyaniline/multi-walled carbon nanotube nanocomposites with negative permittivity”, Gu, HB; Guo, J; He, QL; Jiang, Y; Huang, YD; Haldolaarachchige, N; Luo, ZP; Young, DP; Wei, SY; Guo, ZH, *Nanoscale* **6**, 181-189 (2014).
194. “Magnetoresistive conductive polymer-tungsten trioxide nanocomposites with ultrahigh sensitivity at low magnetic field”, Gu, HB; Guo, J; Wei, HG; Zhang, X; Zhu, JH; Shao, L; Huang, YD; Haldolaarachchige, N; Young, DP; Wei, SY; Guo, ZH, *Polymer* **55**, 944-950 (2014).
195. “Effects of hydrostatic pressure on magnetostructural transitions and magnetocaloric properties in $(\text{MnNiSi})_{1-x}(\text{FeCoGe})_x$ ”, T. Samanta, D.L. Lepkowski, A.U. Saleheen, A. Shankar, J. Prestigiacomo, I. Dubenko, A. Quetz, L.W.H. Oswald, G.T. McCandless, J.Y. Chan, P.W. Adams, D.P. Young, N. Ali, and S. Stadler, *J. Appl. Phys.* **117**, 123911 (2015).
196. “Dielectric properties and magnetoresistance behavior of poly aniline coated carbon fabrics”, B. Qiu, J. Guo, Y.R. Wang, X. Wei, Q. Wang, D.Z. Sun, M.A. Khan,

D.P. Young, R. O'Connor, X.H. Huang, X. Zhang, B.L. Weeks, S.Y. Wei, and Z.H. Guo, *J. Mater. Chem. C* **3**, 3989-3998 (2015).

197. "Carbon monolith with embedded mesopores and nanoparticles as a novel absorbent for water treatment", L. Chen, H.Y. Wang, H.G. Wei, Z.H. Guo, M.A. Khan, D.P. Young, and J.H. Zhu, *RSC Advances* **5**, 42540-42547 (2015).

198. "Eutectoid flux growth and physical properties of single crystal $\text{Ln}_{117}\text{Ni}_{54-y}\text{Sn}_{112-z}$ (Ln = Gd-Dy)", L.E. Reyes, R.N. McDougald, Jr., G.T. McCandless, M.A. Khan, D.P. Young, and J.Y. Chan, *Cryst. Growth Des.* **15**, 295-304 (2015).

199. "Coexistence of high- T_c ferromagnetism and n-Type electrical conductivity in FeBi_2Se_4 ", K.G.S. Ranmohotti, H. Djieutedjeu, J. Lopez, A. Page, N. Haldolaarachchige, H. Chi, P. Sahoo, C. Uher, D.P. Young, and P.F.P. Poudeu, *J. Am. Chem. Soc.* **137**, 691-698 (2015).

200. "Hydrostatic pressure-induced modifications of structural transitions lead to large enhancements of magnetocaloric effects in MnNiSi-based systems", T. Samanta, D.L. Lepkowski, A.U. Saleheen, A. Shankar, J. Prestigiacomo, I. Dubenko, A. Quetz, I.W.H. Oswald, G.T. McCandless, J.Y. Chan, P.W. Adams, D.P. Young, N. Ali, and S. Stadler, *Phys. Rev. B* **91**, 020401(R) (2015).

201. "Competing magnetic states, disorder, and the magnetic character of Fe_3Ga_4 ", J.H. Mendex, C.E. Ekuma, Y. Wu, B.W. Fuller, J.C. Prestigiacomo, W.A. Shelton, M. Jarrell, J. Moreno, D.P. Young, P.W. Adams, A. Karki, R. Jin, J. Y. Chan, and J.F. DiTusa, *Phys. Rev. B* **91**, 144409 (2015).

202. "Strengthened magnetoresistive epoxy nanocomposite papers derived from synergistic nanomagnetite-carbon nonfiber nonhybrids", H. Gu, J. Guo, H. Wei, S. Guo, J. Liu, Y. Huang, M.A. Khan, X. Wang, D.P. Young, S. Wei, and Z. Guo, *Adv. Mater.* **27**, 6277-6282 (2015).

203. "Preparation and enhanced properties of Fe_3O_4 nanoparticles reinforced polyimide nanocomposites", D. Ding, X. Yan, X. Zhang, Q. He, B. Qiu, D. Jinag, H. Wei, J. Guo, A. Umar, L. sun, Q. Wang, M.A. Khan, D.P. Young, X. Zhang, B. Weeks, T.C. Ho, Z. Guo, and S. Wei, *Superlattice. Microst.* **85**, 305-320 (2015).

203. "Strategic crystal growth and physical properties of single-crystalline LnCo_2Al_8 (Ln = La-Nd, Sm, Yb)", P. Watkins-Curry, J.V. Burnett, T. Samanta, D.P. Young, S. Stadler, and J.Y. Chan, *Cryst. Growth Des.* **15**, 3293-3298 (2015).

204. "Facile synthesis of mesoporous carbon nanocomposites from natural biomass for efficient dye adsorption and selective heavy metal removal", L. Chen, T. Ji, L.W. Mu, Y.J. Shi, L.G. Brisbin, Z.H. Guo, M.A. Khan, D.P. Young, and J.H. Zhu, *RSC Advances* **6**, 2259-2269 (2016).

205. “Manipulating the dimensional assembly pattern and crystalline structures of iron oxide nanostructures with a functional polyolefin”, Q.L. He, T.T. Yuan, Y.R. Wang, A. Guleria, S.Y. Wei, G.Q. Zhang, L.Y. Sun, J.J. Liu, J.F. Yu, D.P. Young, H.F. Lin, A. Khasanov, and Z.H. Guo, *Nanoscale* **8**, 1915-1920 (2016).
206. “On the chemistry and physical properties of flux and floating zone grown SmB₆ single crystals”, W.A. Phelan, S.M. Koochpayeh, P. Cottingham, J.A. Tutmaher, J.C. Leiner, M.D. Lumsden, C.M. Lavelle, X.P. Wang, C. Hoffmann, M.A. Siegler, N. Haldolaarachchige, D.P. Young, and T.M. McQueen, *Sci. Rep.* **6**, 20860 (2016).
207. “Enhanced Negative Magnetoresistance with High Sensitivity of Polyaniline Interfaced with Nanotitania”, J. Guo, L.T. Guan, H.G. Wei, M.A. Khan, X. Zhang, B.B. Li, Q. Wang, B.L. Weeks, D.P. Young, T.D. Shen, S.Y. Wei, and Z.H. Guo, *J. Electrochem. Soc.* **163**, H664-H671 (2016).
208. “Thermal, mechanical and magnetic properties of functionalized magnetite/vinyl ester nanocomposites”, D.W. Jiang, Y.H. Huan, C.Y. Sun, C.P. Hu, J. Guo, J. Long, M.A. Khan, D.P. Young, and Z.H. Guo, *RSC Adv.* **6**, 91584-91593 (2016).
209. “Synthesis and anisotropic properties of single crystalline Ln(2)Ru(3)Al(15+x) (Ln=Gd, Tb)”, G. Morrison, J. Prestigiacomo, N. Haldolaarachchige, B.K. Rai, D.P. Young, S. Stadler, E. Morosan, and J.Y. Chan, *J. Solid State Chem.* **236**, 186-194 (2016).
210. “Magnetoresistive polyaniline-silicon carbide metacomposites: plasma frequency determination and high magnetic field sensitivity”, H.B. Gu, J. Guo, M.A. Khan, D.P. Young, T.D. Shen, S.Y. Wei, and Z.H. Guo, *Phys. Chem. Chem. Phys.* **18**, 19536-19543 (2016).
211. “Complex superconductivity in the noncentrosymmetric compound Re₆Zr”, M.A. Khan, A.B. Karki, T. Samanta, D. Browne, S. Stadler, I. Vekhter, A. Pandey, P.W. Adams, S. Teknowijoyo, K. Cho, R. Prozorov, D.E. Graf, and D.P. Young, *Phys. Rev. B* **94**, 144515 (2016).
212. “Lowly loaded carbon nanotubes induced high electrical conductivity and giant magnetoresistance in ethylene/1-octene copolymers”, X.R. Yan, J.W. Gu, G.Q. Zheng, J. Guo, A.M. Galaska, J.F. Yu, M.A. Khan, L.Y. Sun, D.P. Young, Q.Y. Zhang, S.Y. Wei, and Z.H. Guo, *Polymer* **103**, 315-327 (2016).
213. “One-pot melamine derived nitrogen doped magnetic carbon nanoadsorbents with enhanced chromium removal”, Y.H. Cao, J.N. Huang, Y.H. Li, S. Qiu, J.R. Liu, A. Khasanov, M.A. Khan, D.P. Young, F. Peng, D.P. Cao, X.F. Peng, K.L. Hong, and Z.H. Guo, *Carbon* **109**, 640-649 (2016).

214. “The influence of hydrostatic pressure on the magnetic and magnetocaloric properties of DyRu₂Si₂”, A.U. Saleheen, T. Samanta, M.A. Khan, P.W. Adams, D.P. Young, I. Dubenko, N. Ali, and S. Stadler, *J. Appl. Phys.* **121**, 045101 (2017).
215. “Effect of negative chemical pressure on the prototypical itinerant magnet MnSi”, C. Dhital, M.A. Khan, M. Saghayezhian, W.A. Phelan, D.P. Young, R.Y. Jin, and J.F. DiTusa, *Phys. Rev. B* **95**, 024407 (2017).
216. “Poly(vinylidene fluoride) derived fluorine-doped magnetic carbon nanoadsorbents for enhanced chromium removal”, Y.H. Cao, J.N. Huang, X.F. Peng, D.P. Cao, A. Galaska, S. Qiu, J.R. Liu, M.A. Khan, D.P. Young, J.E. Ryu, H.B. Feng, N. Yerra, and Z.H. Guo, *Carbon* **115**, 503 – 514 (2017).
217. “Synthesis and characterization of a series of nickel(II) alkoxide precursors and their utility for Ni(O) nanoparticle production”, L.J. Treadwell, T.J. Boyle, W.A. Phelan, M.V. Parkes, and D.P. Young, *Dalton Transactions* **46**, 5806-5815 (2017).
218. “Polypyrrole interface-functionalized nano-magnetite epoxy nanocomposites as electromagnetic wave absorbers with enhanced flame retardance”, J. Guo, H.X. Song, H. Liu, C.J. Luo, Y.R. Ren, T. Ding, M.A. Khan, D.P. Young, X.Y. Liu, X. Zhang, J. Kong, and Z.H. Guo, *J. Mater. Chem. C* **22**, 5334 – 5344 (2017).
219. “Ir d-band derived superconductivity in the lanthanum-iridium system LaIr₃”, N. Haldolaarachchige, L. Schoop, M.A. Khan, W.X. Huang, H.W. Ji, K. Hettiarachchilage, and D.P. Young, *J. Phys. Condens. Matter* **29**, 475602 (2017).
220. “Exploring the origins of the Dzyaloshinskii-Moriya interaction in MnSi”, C. Dhital, L. DeBeer-Schmitt, Q. Zhang, W. Xie, D.P. Young, and J.F. DiTusa, *Phys. Rev. B* **96**, 214425 (2017).
221. “Barocaloric and magnetocaloric effects in (MnNiSi)_(1-x)(FeCoGe)_(x)”, T. Samanta, P. Lloveras, A.U. Saleheen, D.L. Lepkowski, E. Kramer, I. Dubenko, P.W. Adams, D.P. Young, M. Barrio, J.L. N. Ali, and S. Stadler, *Appl. Phys. Lett.* **112**, 021907 (2018).