

1. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles, “*Estimation of first order and second order phase transition temperatures in $Gd_5(Si_xGe_{1-x})_4$* ” **18th Soft Magnetic Materials Conference**, Cardiff, September 2007 *Awarded the best poster presentation*.
2. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles, “*Determination of the Projected Second Order Phase Transition Temperature of Orthorhombic Phase of $Gd_5(Si_xGe_{1-x})_4$* ” **Magnetism and Magnetic Materials Conference**, Tampa, Florida, USA, November 2007- Oral presentation.
3. D.C. Jiles, Y. Melikhov, J.E. Snyder and R.L. Hadimani. “*Phase Transitions in Nanostructured Ternary Rare Earth Compounds $Gd_5(SixGe_{1-x})_4$ and $Pr(n+2)(n+1)Ni(n-1)+2Si(n+1)$ (Invited)*”, **International Workshop on Amorphous and Nanostructured Magnetic Materials**, Iasi, Romania, August 29-31, 2007. (Invited)
4. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles. “*Magnetostriction close to the phase transition in $Gd_5(Si_xGe_{1-x})_4$* ”, **APS March Meeting**, New Orleans, Louisiana, March 10-14, 2008.
5. R. L. Hadimani, Y. Melikhov, J.E. Snyder, D.C. Jiles, “*Fine structure observation near critical temperature in $Gd_5Si_{1.95}Ge_{2.05}$* ”, **INTERMAG 2008 Conference**, Madrid Spain, May 4-8, 2008- oral presentation.
6. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles, “*Determination of Transition Temperatures and Colossal Magnetostriction in $Gd_5(Si_xGe_{1-x})_4$* ”, **IEEE Magnetic Society Summer School**, Colorado Springs, USA, August 2008, poster presentation.
7. R.L.Hadimani, P.A.Bartlett, Y.Melikhov, J.E.Snyder and D.C.Jiles, “*Temperature induced Colossal magnetostriction in $Gd_5(Si_xGe_{1-x})_4$ for actuator applications*”, **European Magnetic Sensors and Actuators Conference**, Cean, France, June 2008, Poster.
8. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles, “*Field induced phase transition in $Gd_5(Si_xGe_{1-x})_4$ series at high magnetic field strengths*”, International Workshop on **1&2 Dimensional Magnetic Measurement and Testing**, Cardiff, 1-3 September 2008. Poster.
9. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles, “*Field induced structural phase transition at higher temperatures in $Gd_5(Si_xGe_{1-x})_4$* ” **Magnetism and Magnetic Materials Conference**, Austin, Texas, USA, November 2008- Oral presentation.
10. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles. “*Examination of the Coupled Magnetic-Structural Phase Transition in Gadolinium-Silicon-Germanium Magnetocaloric alloys at temperatures well above T_c* ”, **APS March Meeting**, Pittsburgh, Pennsylvania, March 16-20, 2009. Oral presentation.

11. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles, “*Anomalous behaviour in electrical transport properties in single crystal $Gd_5Si_{1.8}Ge_{2.2}$ and polycrystalline $Gd_5Si_{2.09}Ge_{1.91}$* ”, **INTERMAG 2009 Conference**, Sacramento, California, USA, May 2009- oral presentation.
12. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles, “*Electrical transport and magnetic properties in giant magnetocaloric $Gd_5(Si_xGe_{1-x})_4$* ”, **EUROMAT 2009**, Glasgow, UK, September 2009- oral presentations.
13. R. L. Hadimani, and D.C. Jiles, “*Resistivity recovery in $Gd_5Si_{2.09}Ge_{1.91}$ by annealing*”, **MMM-INTERMAG Joint Conference**, Washington DC, January 2010- Poster.
14. R. L. Hadimani, Y. Melikhov, J. E. Snyder, D. C. Jiles. “*Magnetocrystalline anisotropy in single crystal $Gd_5Si_{2.7}Ge_{1.3}$* ”, **APS March Meeting**, Portland, Oregon, March 15-19, 2010. Oral presentation.
15. R. L. Hadimani, D. Vatansever and E. Siores, “*Piezoelectric PVDF Wind/Rain Energy Harvesting Device*”, **ISAF and ECAPD joint conference**, Edinburg, UK, August 2010, poster.
16. D. Vatansever, R. L. Hadimani, E. Siores, “*Comparative Investigation of PVDF and PZT Based Piezoelectric Smart Structures for Rain and Wind Energy Generation and Polymer Based Piezoelectric Fibre Production*”, **Energy Harvesting 2011**, London, 07-02 2011, Poster.
17. A R Horrocks, B Kandola, G J Milnes, A Sitpalan and R L Hadimani “*The Potential for Nanoparticles to confer Improved Flame Resistance to Fibre-Forming Polymers*”, **13th Fire Retardancy and Protection of Materials Conference (FRPM 2011)**, 26-30 June 2011, Alessandria, Italy, **Invited**.
18. R. L. Hadimani, D. Vatansever, T. Shah, E. Siores, “*Hybrid Photovoltaic-Piezoelectric Flexible Device for Energy Harvesting from Sun, Rain and Wind*”, **3rd International Conference on Smart Materials and Nanotechnology in Engineering (SMN2011)**, 5-8 December, Shenzhen, China, Oral presentation.
19. D. Vatansever, R. L. Hadimani, T. Shah, E. Siores, “*Characterisation of Polymer Based Energy Generating PolyVinylidene Fluoride (PVDF) Based Piezoelectric Filament*”, **20th Processing and Fabrication of Advanced Materials**, 15-18 December 2011, Hong Kong SAR, China, Oral Presentation.
20. E. Siores, R. L. Hadimani, D. Vatansever “*Smart Multifunctional Fibre for Harvesting Energy from Nature*”, **IDTechEx Energy Harvesting & Storage Conference**, Munich, Germany, June 2011, **Invited**.

21. R. L. Hadimani, D. Vatansever, T. Shah, E. Siores, "RED Fibre: A Hybrid Approach to Integrated Flexible Energy Harvesters from Nature", **IDTechEx Energy Harvesting & Storage Conference**, June 2011, Munich, Germany, Poster.
22. R. L. Hadimani, D. Vatansever, T. Shah and E. Siores, "*Smart Multifunctional Fibre for Harvesting Energy from Nature*" **IDTechEx Energy Harvesting Conference**, Boston, USA, November 2011, **Invited**.
23. L. J. Crowther, I. C. Nlebedim, R. L. Hadimani and D. C. Jiles, "Developments in Deep Brain Stimulation using Time Dependent Magnetic Fields" **Magnetism and Magnetic Materials Conference**, Scottsdale, Arizona, USA, November 2011, Poster.
24. R.L. Hadimani, Y. Melikhov, D.C. Jiles "Determination of Second Order Phase Transition Temperature of Monoclinic Phase $Gd_5(Si_xGe_{1-x})_4$ ", **APS March Meeting 2012**, Baltimore, Poster
25. R. L. Hadimani, Y. Melikhov, D. C. Jiles, "*Estimation of second order phase transition temperature of monoclinic phase in mixed phase region of $Gd_5(Si_xGe_{1-x})_4$* " **INTERMAG Conference**, Vancouver, Canada, May 2012, oral presentation
26. R. L. Hadimani, Y. Melikhov, D. C. Jiles, "*Magnetocrystalline anisotropy in single crystal $Gd_5Si_{2.7}Ge_{1.3}$* " **INTERMAG Conference**, Vancouver, Canada, May 2012, poster, accepted
27. L. J. Crowther, R. L. Hadimani and D. C. Jiles, "Calculation of Lorentz forces on coils for transcranial magnetic stimulation during magnetic resonance imaging", **INTERMAG Conference**, Vancouver, Canada, May 2012, Oral presentation
28. Mangui Han, R. L. Hadimani, Longjiang Deng, "Microwave permeability of single cobalt nanotube studied by the Generalized Snoek's law", **International Conference on Microwave Magnetics**, Kaiserslautern, Germany, August 2012
29. K. Porzig, R. L. Hadimani, L. J. Crowther, H. Brauer, H. Toepfer and D. C. Jiles, "Effect of Permittivity and Conductivity Variation on Induced Electric Field During Transcranial Magnetic Stimulation (TMS)", **34th EMBC**, San Diego, Aug 2012, Poster
30. R. L. Hadimani, C. I. Nlebedim, Y. Melikhov, D. C. Jiles, "*Growth and Characterization of $Gd_5(Si_xGe_{1-x})_4$ Thin Film*" **Joint MMM-INTERMAG Conference**, Chicago, Jan. 2013, oral presentation.
31. L. J. Crowther, K. Porzig, R. L. Hadimani, H. Brauer, and D. C. Jiles, "*Realistically modeled TMS coils for stress and Lorentz force calculations during MRI*", **Joint MMM-INTERMAG Conference**, Chicago, Jan. 2013, poster presentation
32. C. I. Nlebedim, R. L. Hadimani, , Y. Melikhov, D. C. Jiles, "*Structural, Magnetic and Magnetoelastic Properties of Magnesium Substituted Cobalt Ferrite*" **Joint MMM-**

INTERMAG Conference, Chicago, Jan. 2013, *Awarded the best poster presentation.*

33. R. L. Hadimani, C. I. Nlebedim, Y. Melikhov, D. C. Jiles, " *First successful growth of magnetic thin films of meta-stable monoclinic $Gd_5(Si_xGe_{1-x})_4$* " **APS March Meeting**, Baltimore, March. 2013, oral presentation
34. A. H. Unsal, R. L. Hadimani and D. C. Jiles, " Effect of Transcranial Magnetic Stimulation on Neuronal Networks" **APS March Meeting**, Baltimore, March. 2013, oral presentation
35. L. J. Crowther, R. L. Hadimani, D. C. Jiles, "Improved transcranial magnetic stimulation coil design with realistic head modeling" **APS March Meeting**, Baltimore, March. 2013, oral presentation
36. R. L. Hadimani, K. Porzig, L. J. Crowther, H. Brauer, H. Toepfer, D. C. Jiles, " The Effect of Variation in Permittivity and Conductivity of Different Tissues on Induced Electric Field in the Brain during Transcranial Magnetic Stimulation" **APS March Meeting**, Baltimore, March. 2013, oral presentation
37. Yevgen Melikhov, R. L. Hadimani, Arun Raghunathan " $Gd_5(Si_xGe_{1-x})_4$ SYSTEM – UPDATED PHASE DIAGRAM ", **JEMS**, Rhodes, Greece, August 2013
38. Yevgen Melikhov, R. L. Hadimani, Arun Raghunathan" JILES-ATHERTON THEORY FOR SYSTEMS WITH FIRST ORDER PHASE TRANSITION", **JEMS**, Rhodes, Greece, August 2013
39. Mangui Han, R. L. Hadimani, " Studies on nanocrystallization of FeCuNbSiB nanocomposite by Mössbauer spectroscopy" **ChinaNANO2013**, Beijing, China, September 2013
40. N. Sojn, D.V. Bayramol, S.M. Gillon, P. Mandal, R. L. Hadimani, T.H. Shah, E. Siores, International Congress on Materials and Renewable Energy 1-3 July 2013, Athens, Greece
41. Yevgen Melikhov, R. L. Hadimani, Arun Raghunathan " Modeling of Magnetization Curves for Systems with the First Order Phase Transition", **MMM**, Denver, USA, November 2013
42. R. L. Hadimani, Y. Mudryk, T. E. Prost, V. K. Pecharsky, K. A. Gschneidner, and D. C. Jiles, "Growth and Characterization of Pt-protected Gd_5Si_4 thin films", **MMM**, Denver, USA, November 2013
43. Vijaylakshmi Dayal, Punith Kumar.V, R. L. Hadimani and D. C. Jiles, "Evolution of Griffiths Phase in $La_{0.4}Bi_{0.6}Mn_{1-x}Ti_xO_3$ Perovskite Oxide", **MMM**, Denver, USA, November 2013

44. L. J. Crowther, R. L. Hadimani, A. G. Kanthasamy, D. C. Jiles, "Transcranial Magnetic Stimulation of Mouse Brain Using High-Resolution Anatomical Models", **MMM**, Denver, USA, November 2013
45. R. L. Hadimani, S. D. March, S. McAtee, D. R. Stiner, M. Senter, K. Spoth, L. J. Crowther and D. C. Jiles, "Thermal and Mechanical Analysis of Novel Transcranial Magnetic Stimulation Coil for Mice", **MMM**, Denver, USA, November 2013
46. H. Fu, R. L. Hadimani, Z. Ma, M. X. Wang, B. H. Teng, D. C. Jiles, "Magnetocaloric effect in $GdCo_xAl_{2-x}$ system for $(0.15 \leq x \leq 1)$ compositions", **MMM**, Denver, USA, November 2013
47. L. J. Crowther, R. L. Hadimani and D. C. Jiles, "A Numerical Dosimetry Study for Pediatric Transcranial Magnetic Stimulation", **IEE Neural Engineering**, San Diego, USA, November 2013
48. Rachana Kaul, R. L. Hadimani, L. J. Crowther and D. C. Jiles Neural Engineering "New Coil Designs for Deep Brain Transcranial Magnetic Stimulation using Halo Coil Configurations", **IEE Neural Engineering**, San Diego, USA, November 2013
49. S. D. March, S. McAtee, M. Senter, K. Spoth, D. R. Stiner, L. J. Crowther, R. L. Hadimani, and D. C. Jiles, "Focused and Deep Brain Magnetic Stimulation Using New Coil Design in Mice", **IEE Neural Engineering**, San Diego, USA, November 2013
50. Alexandria Carr, Gary Zenitsky, Lawrence J. Crowther, Ravi L. Hadimani, Vellareddy Anantharam, Anumantha Kanthasamy, David C. Jiles, "Treatment for Traumatic Brain Injury in Mice Using Transcranial Magnetic Stimulation: A Preliminary Study" **APS March Meeting**, Denver, USA, March 2014
51. L. J. Crowther, R. L. Hadimani and D. C. Jiles, "A Numerical Dosimetry Study for Pediatric Transcranial Magnetic Stimulation", **APS March Meeting**, Denver, USA, March 2014
52. R. L. Hadimani, Y. Mudryk, T. E. Prost, V. K. Pecharsky, K. A. Gschneidner, and D. C. Jiles, "Pulsed Laser Deposition of Thin Films of Binary Compounds of Gd and Si using Femto-Second Laser", **APS March Meeting**, Denver, USA, March 2014
53. R. L. Hadimani, Mangui Han, and D. C. Jiles, "High frequency magnetic properties of FeCoSiB thin films", **APS March Meeting**, Denver, USA, March 2014
54. H. A. Khazdozian, R. L. Hadimani, and D. C. Jiles, "Permanent Magnet Synchronous Generators for Wind Turbines", **APS March Meeting**, Denver, USA, March 2014

55. Yan Ni, Nicholas Meyer, Xiaoyu Che, Zhen Zhang, Cajetan I Nlebedim, Ravi L. Hadimani Faxian Xiu, David C. Jiles, “Enhanced surface state of topological insulators by optimal magnetic doping”, **APS March Meeting**, Denver, USA, March 2014
56. S. D. March, S. McAtee, L. J. Crowther, R. L. Hadimani, and D. C. Jiles, “Novel transcranial magnetic stimulation coil for mice”, **APS March Meeting**, Denver, USA, March 2014
57. R. L. Hadimani, J. H. B. Silva, Andre M. Pereira, Devo L. Schlagel, Thomas A. Lograsso, Y. Ren, X. Zhang, David C. Jiles, Joao P. Araújo, “Thin film of R₅(Si,Ge)₄ compound displaying magnetostructural transition: a pathway towards magnetic refrigeration and magnetostrictive devices at nanoscale” **INTERMAG**, Dresden, Germany, May 2014
58. Yevgen Melikhov, R. L. Hadimani, Arun Raghunathan, “Gd₅(SixGe_{1-x})₄ System – Updated Phase Diagram” **INTERMAG**, Dresden, Germany, May 2014
59. Y. Ni, Z. Zhang, X. Che, N. Meyer, I. C. Nlebedim, R. L. Hadimani, G. Tuttle, F. Xiu, and D. C. Jiles, “Van Der Waals Epitaxy of (Sb_{1-x}Bi_x)₂Te₃ Thin Films on Mica” **INTERMAG**, Dresden, Germany, May 2014
60. L. J. Crowther, R. L. Hadimani and D. C. Jiles, “Effect of Brain Development on Induced Electric Fields During Transcranial Magnetic Stimulation”, **INTERMAG**, Dresden, Germany, May 2014
61. Vijaylakshmi Dayal, Punith Kumar V., R. L. Hadimani, A.M.Awasthi and D. C. Jiles “*Structural, Raman, Magnetic and Dielectric Properties of La_{0.4}Bi_{0.6}TiO₃ Perovskite Oxide*” International conference on magnetic materials and applications (**ICMAGMA-2014**), Pondicherry, India, September 15-17, 2014
62. Y. W. Meng, J. K. Qu, R. L. Hadimani, L. J. Crowther and D. C. Jiles, “Development of Variable “Halo Coil” Configuration for Deep Brain Transcranial Magnetic Stimulation” **Minnesota Neuromodulation Symposium**, Minneapolis, USA, April 2014
63. Yiwen Meng, R. L. Hadimani, Vellareddy Anantharam, A. G. Kanthasamy and D. C. Jiles “Differential Effect of Magnetic Field Orientation on the Growth Rate of Dopaminergic Neurons during Transcranial Magnetic Stimulation”, **IEEE EMBC**, Chicago, USA, May 2014
64. Yiwen Meng, Jikang Qu, Zhen Xu, L. J. Crowther, R. L. Hadimani, and D. C. Jiles, “Development of Adjustable “Halo Coil” Configuration for Deep Brain Transcranial Magnetic Stimulation”, **IEEE EMBC**, Chicago, USA, May 2014
65. L. J. Crowther, R. L. Hadimani, and D. C. Jiles, “Development of Adjustable “Halo Coil” Computational Analysis of Induced Electric Fields During Transcranial Magnetic Stimulation”, **IEEE EMBC**, Chicago, USA, May 2014

66. H. A. Khazdozian, R. L. Hadimani, D. C. Jiles, "Size Reduction of Permanent Magnet Generators for Wind Turbines with Higher Energy Density Permanent Magnets" **North American Power Symposium**, September 2014, Pullman, USA
67. R. L. Hadimani, S. Gupta, S. M. Harstad, V. K. Pecharsky and D. C. Jiles, "Investigation of nanoparticles of magnetocaloric Gd_5Si_4 " **MMM**, Honolulu, USA, November 2014
68. R. L. Hadimani, Y. Melikhov, D. L. Schlagel, T. A. Lograsso, K. W. Dennis, R. W. McCallum and D. C. Jiles, "Second order phase transition temperature of single crystals of $Gd_5Si_{1.3}Ge_{2.7}$ and $Gd_5Si_{1.4}Ge_{2.6}$ ", **MMM**, Honolulu, USA, November 2014
69. Yiwen Meng, Jikang Qu, Zhen Xu, L. J. Crowther, R. L. Hadimani, and D. C. Jiles, "Development of Variable "Halo Coil" Configuration for Deep Brain Transcranial Magnetic Stimulation", **MMM**, Honolulu, USA, November 2014
70. L. J. Crowther, R. L. Hadimani, and D. C. Jiles, "Calculation of induced electric fields during transcranial magnetic stimulation", **MMM**, Honolulu, USA, November 2014
71. Z. Zhang, Y. Ni, I. C. Nlebedim, R. L. Hadimani, G. Tuttle, and D. C. Jiles, "Ferromagnetism of Magnetic Doped Topological Insulators in $Cr_xBi_{2-x}Te_3$ Thin Films", **MMM**, Honolulu, USA, November 2014
72. N. Prabhu Gaunkar, N. R. Y. Bouda, I. C. Nlebedim, R. L. Hadimani, R. J. Weber, M. Mina, K. Ganesan, I. Bulu, Y. Q. Song, D. C. Jiles, "Analysis of ringing effects due to magnetic core materials in pulsed NMR circuits", **MMM**, Honolulu, USA, November 2014