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## Journal Papers:

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1. S. K. Aghara\*, S. Venkatraman, A. Manthiram, "Investigation of Hydrogen Content in Chemically Delithiated Lithium-ion Battery Cathodes using Prompt Gamma-ray Activation Analysis", to be published in Radioanal. Nucl. Chem , Vol. 265, No. 2, August, 2005.
2. S. K. Aghara\* and W.S. Charlton, Characterization and Quantification of an In-Core Neutron Irradiation Facility at a TRIGA II Research Reactor, Nuclear Instruments and Methods B (NIMB), Submitted November 2004.
3. S. R. Biegalski , T.C. Green , E. Alvarez, S. Aghara\* , Sources of Background at The University of Texas PGAA Facility, J. Radioanal. Nucl. Chem, Submitted September 2004
4. X. Hu, B. K. Choi, H. J. Barnaby, D. M. Fleetwood, R. D. Schrimpf, S. C. Lee, S. Shojah-Ardalan\*, R. Wilkins\*, U. K. Mishra and R. Dettmer, "The Energy Dependence of Proton-Induced Degradation in AlGaN/GaN High Electron Mobility Transistors", IEEE Transactions on Nuclear Science, Vol. 51, 293-297, April 2004.
5. B. Gersey\*\*, R. Wilkins\*, H. Huff\*\*, R.C. Dwivedi\*, B. Takala, J. O'Donnell, S. A. Wender, Robert C. Singleterry, Jr., "Correlation of Neutron Dosimetry Using a Silicon Equivalent Proportional Counter Microdosimeter and SRAM SEU Cross Sections for Eight Energy Spectra", IEEE Transaction on Nuclear Science, Vol. 50, 2363-2366, 2003.
6. S. Shojah-Ardalan\*, R. Wilkins\*, H. Machado, B. Syed, S. McClure, B. Rax, L. Scheick, M. Wedeman, C. Yui, M. Reed^ and Z. Ahmed^, "Susceptibility of 'Ultracapacitors' to Proton and Gamma Irradiation", Workshop Record of the 2003 IEEE Radiation Effects Data Workshop, 89-91, 2003.
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11. M. X. Pulikkathara^, R. Wilkins\*, Meisha Shofner, Jerry Vera, Enrique V. Barrera, Fernando Rodriguez-Macias, R. Vaidyanathan, C. Gree, C. Condon, "Fluorinated Single Wall Nanotube/Polyethylene Composites for Multifunctional Radiation Protection", Materials Research Society Symposium Proceedings, Volume 740, pp. 365-370, 2002.
12. G. D. Badhwar, H. Huff\*\*, R. Wilkins\*, S. Thibeault, "Comparison of Graphite Aluminum and TransHab Shielding Material Characteristics in a High-energy Neutron Field", Radiation Measurements, Vol. 35, pp. 545-549, December 2002.
13. R. C. Singleterry, Jr., Shelia Thibeault, R. Wilkins\*, H. Huff\*\*, "Charged and Neutral Particle Interactions on Aerospace Materials", submitted to the International Conference on Advanced Nuclear Power Plants (ICAPP), February 2002.
14. B. Luo, J. W. Johnson, F. Ren, K. K. Allums, C. R. Abernathy, T. N. Fogarty\*\*, R. Wilkins\*, A. M. Dabiran, A. M. Wowchack, C. J. Polley, P.P. Chow, A. G. Baca, "High-Energy Proton Irradiation Effects on AlGaIn/GaN High-Electron Mobility Transistors", Journal of Electronic Materials, Vol. 31, 437, May 2002. (K. K. Allums, former CARR undergraduate student).
15. B. Luo, J. W. Johnson, F. Ren, K. K. Allums, C. R. Abernathy, S. J. Pearton, R. Dwivedi\*\*, T. N. Fogarty\*, R. Wilkins\*, A. M. Dabiran, A. M. Wowchack, C. J. Polley, P.P. Chow, A. G. Baca, "dc and rf Performance of Proton-Irradiated AlGaIn/GaN High Electron Mobility Transistors", Applied Physics Letters, Volume 79, 2196, October 1, 2001. (K. K. Allums, former CARR undergraduate student).
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