ALEX PUNNOOSE

LIST OF REFEREEED PUBLICATIONS AND PATENTS

(** indicates undergraduate students, * indicates graduate students)

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3. Sol–gel synthesis and characterization of xCuO–(1 − x)Bi2O3 (0.15 ≤ x ≤ 0.55) glasses by magnetic and spectral studies; B.B. Das, A. Srinivassan, M. Yogapriya, M.R. Kongara, A. Punnoose; Journal of Non-Crystalline Solids 427 (2015) 146–151


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13. Tuning the Bandgap and Cytotoxicity of ZnO by Tailoring the Nanostructures; Jianhui Zhang, Guanjun Dong*, Aaron Thurber, Yayi Hou, Dmitri A. Tenne, Charles B. Hanna, Min Gu, Zhongda Pan, Kaiyu Wang, Youwei Du, and Alex Punnoose, Particle and Particle System Characterization, Volume 32, Issue 5, pages 596–603, May 2015.


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43. Cr$^{3+}$ electron paramagnetic resonance study of Sn$_{1-x}$Cr$_x$O$_2$ (0.00 ≤ x ≤ 0.01). S. K. Misra, S. I. Andronenko, S. Rao*, S. V. Bhat, C. Van Komen** and A. Punnoose, *Journal of Applied Physics*, 105, 07C514 (2009).


47. Transition from n-type to p-type destroys ferromagnetism in semi-conducting Sn$_{1-x}$Co$_x$O$_2$ and Sn$_{1-x}$Cr$_x$O$_2$ nanoparticles. C. Van Komen**, A. Punnoose and M. S. Seehra. Solid State Communications 149, 2257 (2009).

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60. “Mapping ferromagnetism in Ti₁₋ₓCoₓO₂ – Role of preparation temperature (200 – 900°C) and doping concentration (0.00015 < x < 0.1)”; K. M. Reddy and A. Punnoose, Journal of Applied Physics, 101 09H112 (2007).


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64. “Structural modifications of SnO$_2$ due to the incorporation of Fe into the lattice” Xavier Mathew, C. Mejia-Garcia*, J. P. Enriquez, G. Contreras-Puente, J. Hays** and A. Punnoose, Journal of Applied Physics, 100, 073907 (2006).


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1. US patent number 7,939,560, Fluorescent Particulates Comprising Nanoscale ZnO Layer and Exhibiting Cell-Specific Toxicity.


5. 13/079,594 filed April 4, 2011, Nanoparticles that Preferentially Associate with and Kill Diseased Cells for Diagnostic and Therapeutic Applications.

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