

Curriculum Vitae

Uma Choppali, Ph. D.
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Education

University of North Texas (UNT), Denton, Texas, USA
Ph.D. in Materials Science and Engineering

University of South Florida (USF), Tampa, Florida, USA
M. S. in Physics

Indian Institute of Technology (IIT), Bombay, India
M. S. in Physics

Regional Institute of Education (RIE), Bhubaneswar, India
Integrated Bachelors of Science and Bachelor of Education

Teaching Experience

Eastfield College, Mesquite, TX January 2019 – till date
Full-time Faculty - Physics

Brookhaven College, Farmers Branch, TX August 2017 – December 2018
Full-time (Temporary) Faculty – Physics

Brookhaven College, Farmers Branch, TX August 2008 – August 2017
Adjunct Instructor - Physics 1401 and 1402

Collin College, Frisco, TX August 2007 – May 2017
Associate Faculty - Physics 1401, 1402, 2425, and 2426

University of North Texas, Denton, TX August 2007 – May 2009
Adjunct Assistant Professor – MATH 1010 and MATH 1100

Publications

1. A. Nanda, D. Puthal, S. P. Mohanty, and **U. Choppali**, "A Computing Perspective of Quantum Cryptography", IEEE Consumer Electronics Magazine (CEM), Volume 7, Issue 6, November 2018, pp. 57 – 59.
2. D. Puthal, S. P. Mohanty, P. Nanda, and **U. Choppali**, "Building Security Perimeters to Protect Network Systems Against Cyber Threats [Future Directions], IEEE Consumer Electronics Magazine 6 (4), 24 – 27.
3. S. P. Mohanty, **U. Choppali**, and E. Kougianos, "Everything You wanted to Know about Smart Cities", IEEE Consumer Electronics Magazine, July 2016, pp. 60 – 70.

4. M. L. Rajaram, E. Kougiannos, S. P. Mohanty, and **U. Choppali**, "Wireless Sensor Network Simulation Frameworks: A Tutorial Review", *IEEE Consumer Electronics Magazine*, April 2016, pp. 63 – 69.
5. **Uma Choppali**, Elias Kougiannos, Saraju P Mohanty, and Brian P Gorman, "Influence of annealing on polymeric precursor derived ZnO thin films on sapphire", *Thin Solid Films* **545** 466 – 470 (2013).
6. **Uma Choppali**, Elias Kougiannos, Saraju P. Mohanty, and Brian P. Gorman, "Maskless deposition of ZnO films", *Sol Energ Mater Sol Cell* **95** [3] 870 – 876 (2011).
7. **Uma Choppali**, Elias Kougiannos, Saraju P. Mohanty, and Brian P. Gorman, "Polymeric precursor derived nanocrystalline ZnO thin films using EDTA as chelating agent", *Sol Energ Mater Sol Cell* **94** [12] 2351 – 2357 (2010).
8. **Uma Choppali** and Brian P. Gorman, "Polymeric precursor derived preferentially oriented ZnO thin films on basal plane sapphire substrates", *Mater. Chem. Phys.* **112** [3] 916 – 922 (2008).
9. **Uma Choppali** and Brian P. Gorman, "Effect of annealing on room temperature photoluminescence of polymeric precursor derived ZnO thin films on sapphire substrates", *Opt. Mater.* **31** [2] 143 – 148 (2008).
10. **Uma Choppali** and Brian P. Gorman, "Structural and optical properties of nanocrystalline ZnO thin films synthesized by the citrate precursor route", *J. Luminescence*, **128** [10] 1641 – 1648 (2008).
11. **Uma Choppali** and Brian P. Gorman, "Nanocrystalline ZnO Thin Film Synthesis using Glycerol in Aqueous Polymeric Precursor Processing", *J. Am. Ceram. Soc.*, **91** [8] 2553–2558 (2008).
12. **Uma Choppali** and Brian P. Gorman, "Controlling the Morphology of Polymeric Precursor-Derived ZnO Flower-Like Structures", *J. Am. Cer. Soc.*, **90** [2] 433–442 (2007).
13. **Uma Choppali** and Brian P. Gorman, "Low Temperature Aqueous Polymeric Precursor Processing of ZnO:Er Using a Glycerol Chelating Agent", in *Zinc Oxide and Related Materials*, edited by J. Christen, C. Jagadish, D.C. Look, T. Yao, F. Bertram (Mater. Res. Soc. Symp. Proc. **957**, Warrendale, PA (2007), 0957-K07-05.