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Educational Qualifications

Ph D (Physics): MG University, Kottayam (2020)

Title of the Thesis: Studies on the Properties of Pristine and Doped Nickel Oxide Nanoparticles

M Phil (Physics): Cochin University of Science & Technology (2010)

M Sc (Physics): MG University, Kottayam (1990)

B Sc (Physics): MG University, Kottayam (1988)

Professional Experience

Assistant Professor at M E S College, Nedumkandam: 26/06/1991 – 23/09/1997

Assistant Professor and Associate Professor at M E S College, Marampally: 24/09/1997 – 14/06/2012

Associate Professor at M E S Asmabi College: 15/06/2012 - Present

Research Publications

1. Microstructural characterization and modified spectral response of cobalt doped NiO nanoparticles, **P.A. Sheena**, H. Hitha, A. Sreedevi, Thomas Varghese, *Materials Chemistry and Physics*, Elsevier, 229 (2019) 412-420
2. Nickel oxide/cobalt phthalocyanine nanocomposite for potential electronics applications, **P A Sheena**, A Sreedevi, C Viji, Thomas Varghese, *European Physical Journal B*, Springer, 92(2019) 13.
3. Characterization of NiO/CoPc nanocomposite material synthesized by solvent evaporation route, **P. A. Sheena**, K. P. Priyanka, A. Sreedevi, Thomas Varghese, *Journal of Nanostructure in Chemistry*, Springer, 8 (2018) 207 – 215.

4. Effect of electron beam irradiation on the structure and optical properties of nickel oxide nanocubes, **P. A. Sheena**, K. P. Priyanka, N. Aloysius Sabu, S. Gannesh, Thomas Varghese, *Bulletin of Materials Science*, Springer, 38 (2015) 825 – 830.
5. Effect of calcination temperature on the structural and optical properties of nickel oxide nanoparticles, **P. A. Sheena**, K. P. Priyanka, N. Aloysius Sabu, B. Sabu, Thomas Varghese, *Nanosystems: Physics, Chemistry and Mathematics*, St. Petersburg National Research University of Information Technologies, Mechanics and Optics Pub., 5(3) (2014) 441 – 449.

Paper presentations

1. “Influence of Co doping on the properties of NiO nanocrystals”, **Sheena P. A** and Thomas Varghese, International Conference on “Recent Advances in Material Science and Biophysics”, *Mangalore University, Mangalore, Karnataka, 23-25 January 2018*.
2. “Synthesis and structural characterization of NiO/CoPc nanocomposite”, **Sheena P. A** and Thomas Varghese, U G C sponsored National Seminar on “Recent Trends in Nano and other Materials for Energy Efficient Devices”, *St. Aloysius College, Edathua, 20 – 22 July 2017*.
3. “Effect of Annealing on the Structural and Optical Properties of NiO Nanoparticles”, **Sheena P. A** and Thomas Varghese, National conference on “Nanotechnology’s invisible threat: Small science, big consequences”, *Mahatma Gandhi National Institute of Research and Social Action (MGNIRSA), Hyderabad, India, 26-27 September, 2013*

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