

Curriculum Vitae

Dr. Bapanayya Chitikela
Lecturer in Physics
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Educational Qualifications:

Ph.D. – S.V. University – 2023
M.Tech. Materials Science – IIT Kanpur – 2010
M.Sc. Physics – Andhra University, Visakhapatnam – 2007

Academic achievements:

UGC-CSIR NET JRF (2007-2010) in Physics
Graduate Aptitude Test in Engineering GATE-2007 (Physics), Percentile 97.6
Joint Entrance Screening Test (JEST) -2007, Percentile 91.5
Andhra Pradesh State Eligibility Test (APSET) 2017 - Qualified

Employment details:

2012 to 2017 – Lecturer in Physics at P.V.K.N. Govt. College, Chittoor
2017 to Till date – Lecturer in Physics at S.V.A. Govt. College, Chittoor

Professional Development:

Capacity building program as Key Resource Person at JNU Delhi - 2024
Induction training programme at HRDC, Andhra University, Visakhapatnam – 2012
Orientation course at JNTU, Hyderabad – 2014
Refresher course in “GIS” at JNTU, Hyderabad – 2014
ARPIT course in “Climate Change” (2021)

Research:

Journal Publications (9)

- G. Revathi, M Jayachandra Babu, KS Srinivasa Babu, **C Bapanayya**; Dynamics of different heat sources and activation energy on the hybrid nanofluid ($EG + MgO + MWCNT$) flow in a microchannel with thermal radiation: An irreversibility analysis, **Numerical Heat Transfer, Part A: Applications, 1-23 (2024)**.
- **C. Bapanayya**, G Giribabu, G Srinu, RP Vijayalakshmi; Improvement in Electrochemical Performance of Lithium Rich Li_2RuO_3 Cathode With Co-doping Strategy, **JOURNAL OF ADVANCED APPLIED SCIENTIFIC RESEARCH, 1 (5) (2023)**.
- **C. Bapanayya**, G. Giribabu, G. Srinu, R.P. Vijayalakshmi; Structural stability and charge distribution analysis of Lithium rich layered oxide Li_2RuO_3 , **GIS Science 9 (9), 1124-1145 (2022)**
- G Revathi, VS Sajja, MJ Babu, CSK Raju, SA Shehzad, **C Bapanayya**; Entropy optimization in hybrid radiative nanofluid ($CH_3OH + SiO_2 + Al_2O_3$) flow by a

curved stretching sheet with cross-diffusion effects, **Applied Nanoscience**, **1-15 (2021)**

- **C. Bapanayya**, G. Giribabu, R.P. Vijayalakshmi; Optical and Magnetic Properties of Cr doped CdS Dilute Magnetic Semiconductor Nanoparticles, **Journal of Emerging Technologies and Innovative Research (JETIR)** **5 (5)**, 240-245 (2018)
- **C. Bapanayya**, G. Giribabu, R.P. Vijayalakshmi; Synthesis and Structural Characterization of Cr doped CdS Nanoparticles, **Journal of Emerging Technologies and Innovative Research (JETIR)** **5 (5)**, 883-886 (2018)
- NP Reddy, **C Bapanayya**, R Gupta, SC Agarwal; Durability of rewritable phase-change Ge X Sb Y Te_{1-X-Y} memory devices, **Pramana** **80 (6)**, 1065-1081 (2013)
- S Das Sharma, DS Ramesh, **C Bapanayya**, PA Raju; Sea surface temperatures in cooler climate stages bear more similarity with atmospheric CO₂ forcing, **Journal of Geophysical Research: Atmospheres** **117 (D13)** (2012)
- **Ch. Bapanayya**, Rajeev Gupta, S. C. Agarwal, "Potential Fluctuations in Phase Change Memory Materials" **Philos. Mag. Lett.** **91**, 134 (2011).
- **C. Bapanayya**, P.A. Raju, S. Das Sharma, and D.S. Ramesh, "Information theory-based measures of similarity for imaging shallow-mantle discontinuities", **GSA Journal Lithosphere**. **3**, 289 (2011).
- M. Hemanadhan, **Ch. Bapanayya**, and S. C. Agarwal, "A Simple Flash Evaporator for deposition of compounds", **J. vac. Sci. Technol. A** **28**, 625 (2010).

● Conference Presentations (6)

- **C. Bapanayya**, R.P. Vijayalakshmi; Oxygen vacancy enhanced electrochemical properties of Li₂RuO₃, **International conference on optoelectronics and advanced materials (ICOAM) 2021**.
- **C. Bapanayya**, R.P. Vijayalakshmi; Application of Python Programming language in Density Functional Theory-A Case study of cathode material Lithium Ruthenate, **SciPy India 2020 Conference organized by FOSSEE, IIT Bombay (2020)**
- **C. Bapanayya**, R.P. Vijayalakshmi; **National Conference on Novel materials and Technologies (2017)**
- R Gupta, **C Bapanayya**, SC Agarwal; Long-Range Potential Fluctuations in GST Chalcogenide Glasses, **APS March Meeting Abstracts 2011**, **S1. 095**
- **Ch. Bapanayya**, Rajeev Gupta, S. C. Agarwal, "Study of Potential Fluctuations in Ge-Sb-Te chalcogenide Glasses", **17th International Symposium on Non-Oxide and New Optical Glasses ISNOG-2010 Proceedings (China, June 2010)**.
- **Ch. Bapanayya**, Rajeev Gupta, and S. C. Agarwal, "Potential Fluctuations in Ge₂Sb₂Te₅ Chalcogenide Alloy", **DAE Solid State Physics Symposium** **54**, 927 (2009). (National Conference).