

# PROFILE OF Dr. P. NARAYANA REDDY PRINCIPAL GOVT. DEGREE COLLEGE,

Phone: 9704522925

**MYDUKUR, YSR DIST** 

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# Dr. P. Narayana Reddy Ph.D.

# Principal

Govt. Degree College,

Mydukur -516172, INDIA

Mobile: 919704522925

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#### Qualifications:

Ph.D. (2012) Dept. of Physics, S.V. University, Tirupati.

M.Ed. (1995) Annamalai University, Chidambaram, Tamilnadu.

M.Phil. (1992) Dept of Physics, Sri Krishnadevaraya University, Anantapur (A.P.)

M.Sc. (1990) Dept. of Physics, Sri Krishnadevaraya University, Anantapur (A.P.)

#### Principal:

April 2022

GDC, Mydukur

• November 2021 to March 2022

GDC(W), Sri Kalahasti

#### Teaching Experience:

October 2021

• June 2016 - September 2021

• August 2006 – June 2016

• March 2001 - August 2006

• October 1996 - March 2001

• September 1989 - October 1996

Lecturer in Physics, SCNR GDC, Proddatur Lecturer in Physics, GCMA, KADAPA.

Lecturer in Physics, SCNR GDC, Proddatur.

JL in physics, GJC, Kadapa School Assistant (Maths)

S.G. Teacher

#### **Achievements**

- > Research citations: 71
- h index: 4
- **▶** Member in Indian Physics Teachers Association
- Master Trainer Census of India-2011
- ➤ Master Trainer Socioeconomic Survey-2011
- **➤** Jury member –State Inspire (2020), District Inspire (2018)

#### Papers published in National and International Journals

InternationalNationalTotal71017

#### Papers presented at National and International Conferences

International National Total 8 36 44

#### Books published - 2

- Physical Properties of Pure and Copper doped Silver Oxide Thin Films for micro electro device
- Proceedings of Advanced Trends in Material Science

#### National Seminar Conducted - 1

> UGC sponsored National Seminar Advanced Trends in Material Science (ATMS-2017)

#### Ph.D. and M. Phil., guided - 1

M.Phil., -- 1
 Glasses – spectroscopic principles & techniques – Spectroscopic techniques transition metals ions in glasses

### Details of significant paper publications:

#### International Journals

- Physical properties of nano-crystalline silver oxide thin films deposited by RF magnetron sputtering: Effect of oxygen partial pressure
   P. Narayana Reddy, A. Sreedhar, M. H.P. Reddy, S. Uthanna and J.F.Pierson Crystal Research Technology, 46 (2011) 961 966.
- Process parameter dependent structural, electrical and optical properties of reactive magnetron sputtered Ag-Cu-O films
   P. Narayana Reddy, A.Sreedhar, M.H. Prasad Reddy, S. Uthanna, and J.F. Pierson Journal of Nanotechnology, (2011), Article ID 986021, 6 pp. doi:10.1155/2011/986021.
- 3 Structural, electrical and optical behaviour of RF magnetron sputtered nanocrystalline Silver oxide films: Bias effect *P. Narayana Reddy*, M. Hari Prasad Reddy, J.F. Pierson and S. Uthanna American Institute of Physics: Conference Series 1391 (2011) 570.
- Substrate temperature influenced structural, electrical and optical behaviour of reactively sputtered Ag-Cu-O films
   M. H.Prasad Reddy, P. Narayana Reddy, B. Sreedhar, J.F. Pierson and S. Uthanna, Physica Scripta, 84 (2011) 045602.
- 5. Structural, electrical and optical properties of reactively sputtered Ag-Cu-O films *P. Narayana Reddy*, A. Sreedhar, M. Hari Prasad Reddy and S. Uthanna ISRN Condensed Matter Physics (2012), Article ID 293032, 7pp.
- Characterization of Silver Oxide Films Formed by Reactive RF Sputtering at Different Substrate Temperatures
   P. Narayana Reddy, M. Hari Prasad Reddy, J.F. Pierson and S. Uthanna ISRN Optics (2014), Article ID 684317, 7pp.
- Magnetic and Resonance Study of Double doped M-type hexaferrite
   Ba<sub>1-x</sub>(Cu<sub>x</sub>Al<sub>x</sub>Fe<sub>12-x</sub>)O<sub>19</sub>
   T. Ravindra Reddy P. Narayana Reddy, S. lakshmi Reddy, Yoshinobu Nakamura,
   Satoru Kaneko, Paolo Mele, Taras Polek, Tamio Endo
   Frontier Research Today (2019) Vol.2 Article number 2007 7pp.

## National journals:

1. Structural, electrical and optical behaviour of RF magnetron sputtered Cuprous oxide films: Bias effect

M. Hari Prasad Reddy, *P. Narayana Reddy* and S. Uthanna Indian Journal of Pure and Applied Physics, 48 (2010) 420-424.

2. Influence of oxygen partial pressure on the physical behaviour of nanocrystalline Silver oxide films formed by RF magnetron sputtering

S. Uthanna, M. Hari Prasad Reddy and P. Narayana Reddy

Proc. Of 2<sup>nd</sup> National Conference on Nanomaterials and Nanotechnology, Ed.

N.K.Pandey, R.K.Shukla and Anchal Srivastava,

Excel India Publishers, New Delhi, (2009) 8-10.

3. RF magnetron sputtered nanocrystalline Ag-Cu-O films: Substrate temperature influenced physical properties

P. Narayana Reddy, M. Hari Prasad Reddy and S. Uthanna,

Proc. Of International Conference on Nanoscience & Nanotechnology (ICONN-2010), Allied Publishers Pvt. Ltd, Chennai, (2010) 303-304.

4. Physical behaviour of nanocrystalline Cu<sub>2</sub>O films formed by RF magnetron sputtering influence of substrate bias voltage

S. Uthanna, M. Hari Prasad Reddy, *P. Narayana Reddy* and J. F. Pierson, Proc. International Conference on Nanoscience and Technology in Chemistry, Health, Environment and Energy, Ed. L.D. Khemani and Sahab Dass, Tata Mc Graw Hill, New Delhi, (2010) 160-166.

5. Economic Growth of Green chemistry and Design for the Environment *P. Narayana Reddy* and G.V. Lokeswara Reddy

P. Narayana Ready and G.V. Lokeswara Ready

Proc. National Sominar on Cross Chemistry: C

**Proc.** National Seminar on Green Chemistry: Contribution to the Environmental Sustainability,

Paramount Publishing House, New Delhi, (2014) 34-37.

6. Role of sports in the personality development of youth

P. Narayana Reddy and G.V. Lokeswara Reddy

**Proc.** National Seminar on Role of ports and Nutrition – Its Impact on Personality Development

Paramount Publishing House, New Delhi, (2014) 211-214.

7. The physical properties of AZO films grown by RF magnetron sputtering: Influence of target to substrate distance

P. Narayana Reddy and G.V. Lokeswara Reddy

**National Seminar on New Trends on Advanced Materials (NTAM)** 

Paramount Publishing House, New Delhi, (2015) 34-37.

8. Clean India- Perspectives and future vision on water Pollution

P. Narayana Reddy and G.V. Lokeswara Reddy

Proceedings of National Seminar on Swachh Bharat – Role of Society, SJGC (A) Kurnool

Paramount Publishing House, New Delhi, (2015) 28-30.

- 9. Physical Tb3+ activated GdAl3(BO3)4 phosphors for solid state lighting *P. Narayana Reddy*, G.V. Lokeswara Reddy and B.C. Jamalaiah Proceedings of National Seminar on Advanced Trends in Material Science (ATMS) Roshan Publications, Vishakapatnam, (2017) 1-5.
- 10. Organic Solar Cells: A mini review
  - P. Narayana Reddy, P. Bayapu Reddy, B. Rajeswari, A. Ramesh Babu, P.Suresh and G.V. Lokeswara Reddy

Proceedings of National Seminar on Advanced Trends in Material Science (ATMS) Roshan Publications, Vishakapatnam, (2017) 126-131.

## Papers presented at National and International Conferences:

#### International Conferences

- Physical behaviour: of nanocrystalline Cu<sub>2</sub>O films formed by RF magnetron sputtering influence of substrate bias voltage
   Uthanna, M. Hari Prasad Reddy, *P. Narayana Reddy* and J.F. Pierson Nanoscience and Technology in Chemistry, Health, Environment and Energy (NATCHEE-2010)
   Department of chemistry Dayalbagh Educational Institute Dayalbagh, Agra, India January 7-9, 2010
- Structural, Electrical and Optical Properties of RF magnetron sputtered Ag- Cu- O films: Influence of Oxygen Partial Pressure
   Uthanna, P. Narayana Reddy, M. Hari Prasad Reddy and J.F. Pierson International Conference on Recent Trends on Materials and Characterisation (RETMAC-2010),
   Dept of Physics, NIT, Surathkal, India, February 14-15, 2010.
- RF magnetron sputtered nanocrystalling Ag-Cu-O films: Substrate temperature influenced physical properties
   P. Narayana Reddy, M. Hari Prasad Reddy and S. Uthanna International Conference on Nanoscience & Nanotechnology (ICONN-2010), S. R. M. University, Chennai, India, February 24-26, 2010.
- 4. Bias magnetron sputtered silver oxide films: Structural and optical properties *P. Narayana Reddy*, M. Hari Prasad Reddy and S. Uthanna,\
  International Conference on Recent Trends In Nano & Bio- science,
  Department of Physics, Osmania University Hyderabad, February 24-26, 2010.
- 5. Structural, electrical and optical behaviour of bias magnetron sputtered nanocrystalline silver oxide films

  P. Narayana Reddy, M. Hari Prasad Reddy, A. Sreedhar and S. Uthanna, International Conference on Multifunctional Materials (ICMM),

  Department of Physics, Banaras Hindu University, Varanasi, December 7-9, 2010.

6. Structural, electrical and optical behaviour of RF magnetron sputtered nanocrystalline Silver oxide films: Bias effect *P. Narayana Reddy*, M. Hari Prasad Reddy, J.F. Pierson and S. Uthanna, International Conference on OPTICS'11, NIT Calicut, Kerala, India, May 23-25, 2011.

7. Influence of deposition temperature on the physical properties of silver oxide films Formed by RF magnetron sputtering

S. Uthanna, *P. Narayana Reddy*, M. Hari Prasad Reddy, K.T. Ramakrishna Reddy and J.F. Pierson.

E-MRS 2011 Spring & Bilateral Meeting, Nice (France), May 9-13, 2011.

Varanasi, UP, India, December 3 – 4, 2010.

8. Physical properties of the nanocrystalline Silver oxide thin films deposited using RF magnetron sputtering: Effect of sputtering power

P. Narayana Reddy, M. Hari Prasad Reddy and S. Uthanna
 2<sup>nd</sup> Annual International Conference (AIC-2) & Industry-CCRS Congress (ICC)
 2014

Mrs. AVN College, Vishakhapatnam, A.P. December 13-14, 2014.

#### National Conferences

1. Substrate temperature influenced physical properties of RF magnetron sputtered Cu<sub>2</sub>O films

M. Hari Prasad Reddy, *P. Narayana Reddy* and S. Uthanna, 8<sup>th</sup> National Conference on Solid State Ionics 2009 (8<sup>th</sup> NCSSI2009), Dept. of Physics, Dr. Harisingh Gour University, Sagar, December 21-23, 2009.

- 2. Influence of oxygen partial pressure and substrate temperature on the physical behaviour of nanocrystalline silver oxide films formed by RF magnetron sputtering S. Uthanna, M. Hari Prasad Reddy and *P. Narayana Reddy* 2<sup>nd</sup> national conference on nanomaterials & nanotechnology, Department of Physics, University of Lucknow, December 21-23, 2009.
- 3. Substrate temperature influenced physical behaviour of RF magnetron sputtered Silver Oxide films

P. Narayana Reddy, M. Hari Prasad Reddy and S. UthannaNational conference on materials for energy storage and conversion,Department of Physics, S. V. University, Tirupati, India, January 23-24, 2010.

4. Structural, Electrical and Optical Properties of RF Reactive Magnetron Sputtered Ag-Cu-O films: Effect of Substrate Temperature S. Uthanna, *P. Narayana Reddy* and M. Hari Prasad Reddy, National conf. on Experimental Tools for Material Science Research: State of Art, Department of Physics, Mahila Maha Vidyalaya, Banaras Hindu University,

5. Physical behavior of RF magnetron sputtered Ag<sub>2</sub>Cu<sub>2</sub>O<sub>3</sub> films: Influence of oxygen partial pressure

A. Sreedhar, M. Hari Prasad Reddy, P. Narayana Reddy and S. Uthanna

Second National Conference on Multifunctional Nanomaterials and Nanocomposites (NCMNN-2011),

Department of Nanoscience and Technology, Coimbatore. March 24-25, 2011.

6. Influence of the sputtering power on the physical properties of the nanocrystalline Silver oxide thin films deposited using RF magnetron sputtering

P. Narayana Reddy, M. Hari Prasad Reddy and S. Uthanna

**National seminar on frontiers of material sciences** 

Department of Chemistry, GDC, Kalyandurg, A.P., September 17-18, 2012.

7. Biosorption of heavy metals and its advantages

P.Narayana Reddy

**National Seminar on Recent Trends in Chemistry Research – 2014(NSRTCR)** 

Department of Physics, GDC, Kodur(RS), A.P., India, 30 July 2014.

8. Phyto chemicals: Extraction methods

P. Narayana Reddy and G.V. Lokeswara Reddy

**National seminar on Medicinal Plants and its Conservation** 

Department of Botany, GDC, Porumamilla, A.P., August 21-22, 2014.

9. Trace metal pollution in soils affected by Industrial activities

P. Narayana Reddy

National seminar on Recent trends in Geo-Chemical Environmental Aspects of the mineralization in Kadapa Basin

Loyola Degree College (YSRR), Pulivendula, A.P., October 25-26, 2014.

10. Fluorence properties of Sm doped YAl<sub>3</sub> (BO<sub>3</sub>)<sub>4</sub> Phospors

P. Narayana Reddy and G.V. Lokeswara Reddy

**National Conference on Recent Advances in Material Science** 

Dept of Physics, Loyola Degree College (YSRR), Pulivendula, November 1-2, 2014.

11. Properties and applications of nanostructured Zinc oxide

P. Narayana Reddy and G.V. Lokeswara Reddy

**National Seminar on Nanomaterials and global Perspectives** 

Dept of Chemistry, Govt. College for Men, Anantapur, January 30-31, 2015.

12. Economic Growth of Green chemistry and Design for the Environment

P. Narayana Reddy and G.V. Lokeswara Reddy

**National Seminar on Green Chemistry: Contribution to the Environmental Sustainability** 

Dept of Chemistry, KVR Govt College (W), Kurnool, January 28-29, 2015.

13. Role of sports in the personality development of youth

P. Narayana Reddy and G.V. Lokeswara Reddy

National Seminar on Role of ports and Nutrition – Its Impact on Personality Development

Dept of Physical Education, KVR Govt College (W), Kurnool, February 18-19, 2015.

14. The physical properties of AZO films grown by RF magnetron sputtering: Influence of target to substrate distance

P. Narayana Reddy and G.V. Lokeswara Reddy

**National Seminar on New Trends on Advanced Materials (NTAM)** 

Dept of Physics, Govt. College for Men (A), KADAPA, February 27, 2015.

15. Impacts of mining on water pollution

P. Narayana Reddy and G.V. Lokeswara Reddy

National Seminar on Impact of Mining on Cropping Pattern and Environment Dept of Environmental studies, GDC Rajampeta, A.P., March 6-7, 2015.

16. Luminescent properties of  $Na_3Gd(PO_4)_2$ :  $Tm^{3+}$  phosphors for optoelectronic Applications

B.C. Jamalaiah, S. Nayab Rasool and G.V. Lokeswara Reddy and *P. Narayana Reddy* National Eevel Technical Symposium on Emerging Trends in Engineering and Sciences (NLTSETE & S)

Chadalawada Ramanamma Enginnering College, Tirupati, A.P., March 13-14, 2015.

17. Effect of mining activities on ground and surface water quality status

P. Narayana Reddy and G.V. Lokeswara Reddy

National Seminar on Environmental Hazards – Causes, Controlling Measures Dept of Sciences, Govt. College for Men (A), KADAPA, March 17, 2015.

18. Nanoscale Transparent Conductive Oxide thin films

P. Narayana Reddy and G.V. Lokeswara Reddy

National Seminar on Advances in Material Science and Nanotechnology Dept of Physics, S.B.V.R Degree College, Badvel, A.P., April 6, 2015.

19. Photoluminescence and energy transfer studies of  $Dy^{3+}/Tm^{3+}$  Co-doped  $Na_3Gd(PO_4)_2$  Phosphors for white LEDS

B.C. Jamalaiah, S. Nayab Rasool and G.V. Lokeswara Reddy and *P. Narayana Reddy* National Seminar on Advances in Material Science and Nanotechnology Dept of Physics, S.B.V.R Degree College, Badvel, A.P., April 6, 2015.

20. Nanoscale Transparent Conductive Oxide thin films

P. Narayana Reddy and G.V. Lokeswara Reddy

National Seminar on Advances in Material Science and Nanotechnology Dept of Physics, S.B.V.R Degree College, Badvel, A.P., April 6, 2015.

21. Effective use of technology in classroom teaching

P. Narayana Reddy and G.V. Lokeswara Reddy

**National Seminar on Innovative and Creative Teaching, Learning & Evaluation Methods** 

IQAC, S.V.G.M. GOVT. Degree College, Kalyandurg, A.P., AUGUST 6-7, 2015.

22. Innovative teaching method – Just-in-Time teaching

G. Easwara Reddy, P. Narayana Reddy and G.V. Lokeswara Reddy

**National Seminar on Innovative and Creative Teaching, Learning & Evaluation Methods** 

IQAC, S.V.G.M. GOVT. Degree College, Kalyandurg, A.P., AUGUST 6-7, 2015.

23. Research as an integral part of Curriculam

G.V. Lokeswara Reddy and P. Narayana Reddy

**National Seminar on Innovative and Creative Teaching, Learning & Evaluation Methods** 

IQAC, S.V.G.M. GOVT. Degree College, Kalvandurg, A.P., AUGUST 6-7, 2015.

24. Clean India- Perspectives and future vision on water Pollution

P. Narayana Reddy and G.V. Lokeswara Reddy

National Seminar on Swachha Bharath – Role of society

Dept of Botany, Silver Jubilee Degree College(A), Kurnool, A.P., December 11, 2015.

25. A Study of UG level Students Attitude towards Choice Based Credit System in Higher Education

P. Narayana Reddy and G.V. Lokeswara Reddy

National Workshop on Strategies to enhance relevance of Higher Education IQAC & JKC, Govt. Degree College, Uravakonda, A.P., December 14, 2015.

**26.** Applications of Magnetron Sputtering Plasma Discharge in Copper Oxide Thin Film Fabrication

P. Narayana Reddy and G.V. Lokeswara Reddy

**National Seminar on Recent Trends in Applied Physics** 

Dept. of Physics, KRK Govt. Degree College, Addanki, A.P., December 16-17, 2015.

27. A perspective view on nanoplastics in the aquatic environment

P. Narayana Reddy

National Conference on Coastal and Marine Biodiversity of India: Prospects,

Threats and Conversation Strategies (CMBI+2016)

Port of Marine Rielegy, Vikram simbonury University, N

Dept. of Marine Biology, Vikram simhapuru University, Nellore, A.P., September 16-17, 2016.

28.  $Sr_{(1-x)}Dy_xAl_2O_4(0 < x > 2.0\%)$  Phosphors for White LEDs

P. Narayana Reddy, G.V. Lokeswara Reddy, B.C. Jamalaiah, Sk. Nayab Rasool National Seminar on Advanced Materials in Science & Technology Dept. of Physics, P.R. G.C (A), Kakinada, A.P., September 23-24, 2016.

29 The impact of globalization on gender equality: Past and future

P. Narayana Reddy and G.V. Lokeswara Reddy

National Seminar on Globalization—A Stragety towards Women's Empowerment Dept. of Political Science Govt. College for Men, Kurnool, A.P., September 24-25, 2016.

- 30 The impact of globalization on gender equality: Past and future *P. Narayana Reddy* V. Adinarayana and G.V. Lokeswara Reddy National Seminar on Skill Development to Empower Higher Educationt Govt. Degree College, Uravakonda, A.P., October 27, 2016.
- 31 Study of Thermal Annealing Effects on the Optical Properties of Ag<sub>2</sub>O nanocrystal Thin Films Prepared by Thermal Evaporation

  P. Narayana Reddy V. Adinarayana and G.V. Lokeswara Reddy

  National Seminar on Modern Trends in Chemistry Research

  Dept. of Chemistry, Govt. College for Men (A), Kadapa, A.P., January 27-28, 2017.
- **32.** Future Trends and Emerging Opportunities in Higher Education in Acadamics And Research
  - P. Narayana Reddy V. Adinarayana and G.V. Lokeswara Reddy National Science day celebrations and National Workshop on "Emerging trends in Academics and Research"

Yogi Vemana University, Kadapa, A.P., February 28, March 01, 2017.

- 33. The impact of yoga on academic stress and well being among under graduate students
  - P. Narayana Reddy V. Adinarayana and K. Shanthi Latha National Science day celebrations and National Workshop on "Emerging trends in Academics and Research"

Yogi Vemana University, Kadapa, A.P., February 28, March 01, 2017.

- 34. Oxygen partial pressure influenced electrical and optical properties of RF magnetron sputtered Cu-Ag-O thin films

  M. Hari Prasad Reddy, P Narayana Reddy and S. Uthanna
  National Seminar on Advanced Trends in Material Science
  Dept. of Physics, Govt. College for Men (A), Kadapa, A.P., March 10, 2017.
- 35. Tb<sup>3+</sup> activated GdAl<sub>3</sub> (BO<sub>3</sub>)<sub>4</sub> phosphors for solid state lighting G.V. Lokeswara Reddy, *B.C. Jamalaiah*, *P. Narayana Reddy*National Seminar on Advanced Trends in Material Science
  Dept. of Physics, Govt. College for Men (A), Kadapa, A.P., March 10, 2017.
- 36. Organic Solar Cells for Renewable Energy: A mini review P. Narayana Reddy, P. Bayapu Reddy, A. Ramesh Babu, P.Suresh and G.V. L.Reddy National Seminar on Advanced Trends in Material Science Dept. of Physics, Govt. College for Men (A), Kadapa, A.P., March 10, 2017.