

Curriculum vitae

Dr.P.N. Prashanth kumar
Assistant Professor
Dept.of Chemistry
DRM Science College
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QUALIFICATION:

Ph.D. Industrial Chemistry: Dept. of Industrial Chemistry, Kuvempu University, INDIA

Thesis Title: “Design and development of Semiconducting oxide films; Studies on its applications”.

Guide – Dr.H.S. Bhojya Naik, Dept of Industrial Chemistry, Kuvempu University, Shankaraghatta- 577 451, Karnataka, India)

M.Sc. Industrial Chemistry - (73.6%): June – 2008, Dept. of Industrial Chemistry, Kuvempu University, INDIA.

B.Sc. - (69.1%): June – 2006 [Physics + Chemistry + Mathematics], Kuvempu University, INDIA.

ADDITIONAL QUALIFICATION

Project Undertaken in M.Sc (IC):

Synthesis, Characterization & Analgesic activity of some benzoxazoles derivatives.

NRB Project undertaken in Ph.D: Development of nano TiO₂ based transition metal compounds thin film for thermal sensors applications

Computer Knowledge:

MS-office-Operating System : MS-DOS Windows 98, 2000 XP, Power point, Origin and Chemdraw.

SKILLS:

- ❖ Good in Synthesis of Nanomaterials and optimization of reaction conditions.
- ❖ Strongly motivated team worker and quick learner.
- ❖ Social person and works with team and has good team building skills.
- ❖ ALL India Inter university chess tournament participated in Vellore (Tamil nadu)

INSTRUMENTS KNOWN:

- X-Ray Diffractometer
- Scanning Electron Microscopy
- UV-visible Spectrophotometer (Shimadzu)
- Fourier Transform Infrared Spectroscopy
- Energy Dispersive Spectroscopy.

Teaching Experience

Three years of teaching experience during 2014-2017 in the Dept. of chemistry at Davanagare University and Four years of teaching experience during 2017-2021 in the Dept. of chemistry at NMKRV College for women, Bangalore.

PUBLICATIONS:

1] H.R. Prakash Naik, H.S. Bhojya Naik, D.S. Lamani, T. Aravinda, B. VijayaKumar, B. Vinay Kumar, M. Yogesh, N. Sharath, **P.N. Prashanth Kumar**, “Benzoquinoline based Macrocylic Copper(II), Cobalt(II) Complexes: Synthesis, Characterization and Light induced DNA Cleavage Studies”. *J. Macromol. Sci. Part A Pure. & Appl. Chem.*, **2009**, 46, 790–795. **Impact factor 0.963**

2] K.N. Harish, H.S. Bhojya Naik,* **P.N. Prashanth Kumar** and R. Viswanath, Synthesis, enhanced optical and photocatalytic study of Cd–Zn ferrites under sunlight, *Catal. Sci. Technol.*, **2012**, 2, 1033–1039. **Impact factor 5.287**

3] **P.N. Prashanth Kumar**, H.S.Bhojya Naik,* K.N. Harish and R. Viswanath “Studies on Optical and photocatalytic properties of surfactant assisted silver deposition on TiO₂ thin films

prepared by microwave irradiation technique” *European Journal of Applied Engineering and Scientific Research*, **2013**, 2 (2):1-7. **Impact factor 0**

4] **P.N. Prashanth Kumar**, H.S.Bhojya Naik,* K. Narasimharao, K.N. Harish, R. Viswanath “Effect of optical and photocatalytic properties by silver deposition on polymeric precursor sol-gel derived TiO₂ thin films” *International Journal of Science Research* ,**2013**,1,308-313 **Impact factor 0**

5] **P. N. Prashanth Kumar**, H.S. Bhojya Naik,* K.N. Harish and R.Viswanath, Effect of surfactant-assisted and pH dependent ZnO Nanoparticle-Catalyzed for the rapid Synthesis of Coumarin by Knoevenagel Condensation under microwave Irradiation, *Archives of Applied Science Research*, **2013**, 5 (2):132-137. **Impact factor 0**

6] K.N. Harish, H.S. Bhojya Naik,* **P.N. Prashanth Kumar** and R. Viswanath, Remarkable optical and photocatalytic properties of solar light active Nd substituted Ni Ferrite catalysts:For environment protection, *ACS Sustainable Chem. Eng.* **2013**, 1, 1143 – 1153. **Impact factor 5.287**

7] K.N. Harish, H.S. Bhojya Naik,* **P.N. Prashanth Kumar** and R. Viswanath, Optical and photocatalytic properties of CdFe₂O₄ nanocatalysts: Potential application in water treatment under solar light irradiation, *Archives of Applied Science Research*, **2013**, 5(2):42-51. **Impact factor 0**

8] **P.N. Prashanth Kumar**, H.S. Bhojya Naik*, H.R. Ravi, R. viswanath, H.R. Sreepad, Enhanced photovoltaic cell incorporating a dye-sensitized ZnS/ZnO composite thin films, *Environmental Science: An Indian Journal* 9(8):**2014** [285-293]. **Impact factor 0.45**

9] R. Viswanath, H.S. Bhojya Naik*, G.S. Yashavanth Kumar, **P.N. Prashanth Kumar**, K.N. Harish and Prabhakara M.C. “Luminescence properties of blue-red emitting multilayer coated single structure ZnS/MnS/ZnS nanocomposites”, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 125C (**2014**) 222-227, <http://dx.doi.org/10.1016/j.saa.2014.01.022>. **impact factor 2.653**

10] R. Viswanath, H.S. Bhojya Naik*, G.S. Yashavanth Kumar, **P.N. Prashanth Kumar**, K.N. Harish and Prabhakara M.C., “Studies on Characterization, Optical Absorption and Photoluminescence of Yttrium doped ZnS Nanoparticles”, *Journal of Nanotechnology Hindawi publisher*, [\(2014\)](http://dx.doi.org/10.1155/2014/924797) **Impact factor 0**

11] R. Viswanath, H.S. Bhojya Naik*, G.S. Yashavanth Kumar, **P.N. Prashanth Kumar**, K.N. Harish, M.C Prabhakara, R Praveen, “Synthesis and photoluminescence enhancement of PVA capped Mn²⁺ doped ZnS nanoparticles and observation of tunable dual emission: A new approach”, *Applied Surface Science*, <http://dx.doi.org/10.1016/j.apsusc.2014.02.013>. **Impact factor 3.150**

12] R. Viswanath, H.S. Bhojya Naik*, G.S. Yashavanth Kumar, **P.N. Prashanth Kumar**, Arun Kumar G. and Praveen R, “EDTA-assisted hydrothermal synthesis, characterization and photoluminescent properties of Mn²⁺-doped ZnS”, *Journal of Luminescence* 153 (2014) 446–452 **Impact factor 2.893**

13] ¹ Ravi HR* , ² **Prashanth kumar PN**, ³ Naveenkumar P, ⁴ Devarajegowda HC and ⁵ Sreepad HR Photocatalytic degradation of pathogenic bacteria using Novel-composite ZnO nanofilms with 2-(2', 1, 3-dithiolan-2-ylidenemethanediyl) diquinoline-4- carboxylic acid. *International Journal of Chemical and Pharmaceutical Sciences* 2015, June., Vol. 6 (2) **Impact factor 0.684**

14] C.N.Sudamani, H.S.BhojyaNaik* ,K.R.Sangeetha Gowda,M.Giridar.D.girija, **P.N.Prashanth Kumar** Synthesis ,DNA interactions and antibacterial PDT of Cu(ii)complexes of phenantroline based photosensitizers via singlet oxygen generation.Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy 138(2015)780=788 **Impact factor 2.653**

15] K.N. Harish, H.S. Bhojya Naik,* **P.N. Prashanth Kumar** and R. Viswanath, Solar light active ZnFe_{2-x} Al_xO₄ materials for optical and photocatalytic activity an efficient photocatalyst *International Journal of Science Research* ,2013,1,301-304 **Impact factor 1.23**

16] Iron Phenanthroline based photosensitization for antibacterial PDT: synthesis,DNA binding and photo-induced DNA cleavage activity.C.N.Sudamani, H.S.BhojyaNaik* ,K.R.Sangeetha

gowda, M.Giridar .D,Girija ,**P.N.Prashanth Kumar**, Novel Med Chem Res(2017) 26: 1160-1169 **Impact factor 1.23**

17]Influence of calcination temperature for optical and photocatalytic properties of TiO₂ thin films prepared by EB gun and Sol-gel method **Prashanth kumar PN** , Ravi HR , H.S Bhojya Naik*,K.N.Harish (Accepted) Impact factor 0.84

18] Comparision of optical and photocatalytic properties of TiO₂ thin films modified with Ag nanoparticles **Prashanth kumar PN** , Ravi HR , H.SBhojya Naik*,H.R.Sreepad, Material science(Indian journal) Vol 14,2,2016 Impact factor 0.5

19]Influence of Ni (II) oxime complexcoupled with the combination of Diverse sized ZnO Nanoparticles on Photovoltaic Performance.Prashanth Kumar P.N.¹, Sajan Ponnappa Chimmikuttanda ^{2*},Ravi Hethegowdanally Rajegowda³,Amol Naik ², Maxwell Selase Akple⁴, European journal of Engineering Science and technology. 3(2):41-57,2020.

Paper Presented / Participated at National and International Conferences and workshops during Research:

- 1] Paper presented at International Conference on **“Recent advances in material science (RAMS-2012)**, Bangalore from 6th-8th November 2012
- 2] Paper presented at National Symposium on **“Frontier Areas in Chemical Science And Nanotechnology”** Kuvempu University, Shankaraghatta on 1st& 2nd May-2010.
- 3] Participated at National workshop on **“usage of instruments for nanotechnology applications”**Kuvempu University, Shankaraghatta On 25thApril 2011.
- 4] Participated at National workshop on **“Elements of nanoscience and technology”**Kuvempu University, Shankaraghatta, during Oct 12-13 2012.
- 5] Participated in one day national conference on **‘RECENT TRENDS AND FUTURE APPLICATIONS OF CHEMICAL SCIENCES (RTFACS-2016)’** Devanagari University during 5th Nov 2016.
- 6] Participated in one day national conference on **‘CLIMATE IS CHANGING, FOOD AND AGRICULTURE MUST TOO’** Davangere University during 25th Oct 2016.
- 7] Participated in one day national conference on **“RECENT ADVANCES IN PHYSICAL SCIENCES- AN INTERDICIPINARY APPROCH (RAPS-IA-2017)**Govt. Science College,Hassan during 25th MARCH 2017.
- 8] Paper presented at two day National conference on **“Recent Advances in chemical Biology and Material Science for Industry and society”** Kuvempu University, Shankaraghatta on 9th & 10th Feb 2018.

Personal details

Name : **P.N. Prashanth Kumar**

Date of birth : 28th Sept 1985

Sex : Male

Marital status : Married

Nationality : Indian

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INDIA.

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Languages known : Kannada, English, Telugu and Hindi.

Interests : sports, Listening Music.

Strengths : Honesty, Humble, Self confident, hardworking and Dedicated.

I solely declare that the information given above is true to my knowledge and belief.



(P. N. Prashanth kumar)