

## Curriculum vitae



Name : **Dr. Vishwanath T**

Educational Qualification : M.Sc., Ph.D.

Designation : Assistant Professor

Address for Correspondence: Department of Materials Science  
Mangalore University, Mangalagangothri

E-mail : [vishutcg@gmail.com](mailto:vishutcg@gmail.com)

Phone : 9481749108

Research Areas : Synthetic Chemistry, Polymers, Nanoscience and catalysis.

Professional Teaching : Assistant Professor at Mangalore University.

Experiences : Lecturer at Govt. P. U. College, Navunda, Kundapura, (from 03-07-2013 to 09-11-2013 (KPSC, Karnataka)  
Guest Lecturer, Dept. of Chemistry, Mangalore University, from Aug. 2011 to Nov. 2012 as.

### Summary of research activities:

#### Research Projects

##### Completed

Minor research project on 'Synthesis and nonlinear optical property of some novel bis-hydrazones containing 1,2,3-triazoles' funded by Mangalore University (30-04-2016 to 30-04-2018). Grant: Rs. 55,000.

#### Research Journal Publications

##### International

1. Synthesis, Spectroscopic Properties and Antioxidant Activity of Bis-Hydrazones and Schiff's bases derived from Terephthalic dihydrazide. H. S. Vidyashree Jois, Balakrishna Kalluraya and **T. Vishwanath**; *J. Fluoresc. (Springer)*, **25**:481–488 (2015). Doi: 10.1007/s10895-015-1558-5
2. Microwave Assisted Synthesis of 1, 2, 3-Triazole Tethered Pyrazolines and their Pharmacological Studies, **Vishwanath Turukarabettu**, Balakrishna Kalluraya\* and Prashantha Naik, *J. Chem. Pharm. Res.*, **9(7)**:179-187 (2017).
3. Design and synthesis of sulfur cross-linked 1,3,4-oxadiazole-nitro(furan/thiophene)-propenones as dual inhibitors of inflammation and tuberculosis: Molecular docking and Hirshfeld analysis. **Vishwanath Turukarabettu**, B.alakrishna Kalluraya\*,

- Monika Sharma, *Monatshefte fur Chemie (Springer)*, 150: 1999-2010 (2019). Doi: 10.1007/s00706-019-02507-2
4. Synthetic and theoretical investigation on nano-Au/TiO<sub>2</sub> catalyzed hydrothiolation for construction of C-S bond: Experimental and DFT study, **Vishwanath Turukarabettu**, Balakrishna Kalluraya\*, *J. Phy. Org. Chem. (Wiley)*, **33(4)**:e4040 (2020). Doi: 10.1002/poc.4040
  5. Synthesis, characterization and anticorrosion behavior of a novel hydrazide derivative on mild steel in hydrochloric acid medium. P Preethi Kumari, Prakash Shetty\*, Suma A. Rao, Dhanya Sunil and T. Vishwanath, *Bull. Mater. Sci. (Springer)*, **43(46)**: 1-14 (2020). Doi: 10.1007/s12034-019-1995-x
  6. Cu(I) catalyzed 1,3-dipolar click synthesis of S-heterocyclic 1,2,3-triazole derivatives, their antibacterial activity, **V. Turukarabettu**, B. Kalluraya\*, K. Hemanth and B. C. Revanasiddappa, *Russ. J. Gen. Chem. (Springer)*, **90(1)**:142-147 (2020). Doi: 10.1134/S1070363220010223
  7. Effect of  $\gamma$  radiation and study of  $\gamma$  induced physico-chemical changes in high performance thermoset obtained by double cycloaddition of methyl acrylate and bis-maleimide, Balakrishna Kalluraya, B. R. Kaushik, T. Vishwanath and H. M. Somashekarappa, *Radiation effects and defects in solids (Taylor and Francis)*, **175(7-8)**: 730-744 (2020). Doi: 10.1080/10420150.2020.1759066

### National

1. Microwave-assisted synthesis of 1,2,3-Triazole hydrazone library and evaluation of antibacterial and antioxidant activity. **T. Vishwanath**, B. Kalluraya, K. M. Vijay and Revanasiddappa; *Indian journal of heterocyclic chemistry*, **28(2)**:207-212 (2018).
2. Synthesis, characterization and Nonlinear Optical studies of 1-(*p*-chlorophenyl)-5-methyl-N'-(quinolin-4-ylmethylene)-1*H*-1,2,3-triazole-4-carbohydrazide. **T. Vishwanath** and B. Kalluraya, Conference proceedings, Mangalore University, ISBN 978-93-5291-953-6, 23-25<sup>th</sup> January 2018.

### Papers/Poster presentations in Conferences/Seminars/Symposia:

#### International

1. Hydrothiolation of acetylenic ketones on Nano-Au/TiO<sub>2</sub>: A green approach, International Conference on 'Current Concepts in Chemistry' Indian Council of Chemists, held at Bali, Indonesia, June 2017.

## **National**

1. Nano Au/TiO<sub>2</sub> catalytic Hydrothiolation of acetylenic ketone- a mechanistic view using DFT and their Molecular docking and toxicity studies, 36<sup>th</sup> Conference of Indian Council of Chemists, Andhra University, Visakha Pattanam, December 2017.
2. Synthesis, thermal and mechanical studies of chitosan-acetaldehyde schiff base, International Conference on 'Emerging Trends in Chemical Sciences, MIT , Manipal, September 2017.
3. A study on 1,3,4-Oxadiazol-5-thiol-propenones as potent anti-bacterial, anti-tubercular and anti-inflammatory agents, National Conference on ' Role of Organic Intermediates in Cognitive Disorders and Mental Health', NGSIM Institute of Pharmaceutical sciences, Paneer, February 2017.
4. Au/TiO<sub>2</sub> NPs and Cu (i) catalyzed 1,3- dipolar cycloaddition of azides with terminal alkynes : a sustainable approach, National Conference on Chemistry for sustainable future, SDM College, Ujire, January 2017.
5. Preparation and Characterization of Au-TiO<sub>2</sub> Nanospheres and their Physisorption studies, International seminar on nanoscience and technology, Mother Theresa Women's University, Kodaikanal, September 2016.
6. Anti-oxidant and anti-inflammatory activity of some hydrazone containing 1,2,3-triazole library, National conference on recent trends in chemical sciences, MIT, Manipal, January 2016.
7. Synthesis of novel series of thiasydnonones containing 1,2,3-triazoles and study of their biological activity, International conference on New horizons in synthetic and materials chemistry, University of Mumbai, November 2015.
8. Synthesis of novel nitrogen containing heterocycles through 1,3-dipolar cycloaddition reaction, National conference on pure and applied chemistry, University of Mysore, December 2014.

## **Conferences/Seminars/Workshops/Course organized:**

1. Organized GIAN Course on 'Materials for Energy Technology' from 28-11-2016 to 02-11-2016 for M.Sc. students.
2. Organized 60 hours Training Programme on 'UGC-CSIR/NET/K-SET Exam' for Physics and Chemistry students of Mangalagangothri campus.

## **Membership of Professional Bodies**

1. Member of Board of Studies to Materials Science, 2015-2016.
2. Member of Board of Examiners, Materials Science.

## **Workshops attended:**

1. Orientation Programme, Academic Staff College, University of Mysore in 2014.
2. Residential Training Program equivalent to UGC Refresher Course on 'University and PG Teachers Training Program in Chemistry', CESME, Indian Institute of Science, Challakere Campus, Chitradurga in 2017.

3. MOOCs-Online Refresher Course in 'Chemistry for Higher Education Faculty' in 2019.
4. National Seminar on 'Advances in Materials Science', Dept. of Materials Science, Mangalore University in 2013.
5. Saksham-IT Champion Training Program, Mangalore University in 2015.
6. Orientation workshop on 'Radiation-Its applications in Physical, Chemical and Life Sciences, Department of Physics, Mangalore University in 2015.
7. National workshop on Theory and Practice of Molecular Structure Determination using X-ray Crystallography, DST-PURSE Mangalore University in 2016.
8. Emerging Solar PV Technology Applications for Academics, Mangalore University in 2016.
9. Science Academies Workshop on 'Advances in Nano-Science and Nano-Technology', YIT, Moodbidri in 2017.
10. Career Advancement through Professional Development and Personal Excellence, NGSM Institute, NITTE, Paneer in 2018.
11. Capacity building workshop on 'The Future of Higher Education: Opportunities and Challenges', Mangalore University in 2019.
12. Workshop on 'Outcome Based Higher Education' for University Teachers, HEA, Dharwad in 2019.