

**Name** : Dr. P. Naveen  
**Designation** : Assistant Professor  
**Department** : Chemistry  
**Qualification** : M.Sc., Ph.D.  
**Experience** : Teaching: 1.6 Years                      Research: 6 Years  
**Area of Specialization(s)** : Coordination and Bioinorganic Chemistry  
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#### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D.	Chemistry	Bharathiar University	2018
M. Sc	Chemistry	Bharathiar University	2012
B. Sc	Chemistry	Sri Ramakrishna Mission Vidyalaya College of arts and science/ Bharathiar University	2010

#### Research Publications (Indexed)

##### International

1. P. Naveen, R. Jain, P. Kalaivani, R. Shankar, F. Dallemer and R. Prabhakaran, **Unpredicted formation of copper(II) complexes containing 2-thiophen-2-yl-1-thiophene-2-ylmethyl-1h-benzimidazole and most promising *in vitro* cytotoxicity in MCF-7 and HeLa cell lines over cisplatin**, New Journal of Chemistry, 41, 8885-8898, 2017, ISSN: 1144-0546, (Indexed in SCOPUS).
2. P. Naveen, F. Dallemer, R. J. Butcher and R. Prabhakaran, **New Ru(II) complexes containing Tris(2-pyridylmethyl) amine. Synthesis, structural, CT-DNA/albumin interaction, anti-oxidant and Cytotoxicity studies**, Inorganica Chimica Acta. 471, 724-734, 2018, ISSN: 0020-1693, (Indexed in SCOPUS).
3. D. Anu, P. Naveen, B. Vijayapandian, Christopher S. Frampton and M. V. Kaveri, **An unexpected mixed valence tetranuclear Copper (I/II) Complex: Synthesis, Structural Characterization, DNA/Protein Binding, Antioxidant and Anticancer Properties**, Polyhedron, 167, 137-150, 2019, ISSN: 0277-5387, (Indexed in SCOPUS).
4. D. Anu, P. Naveen, Nigam P. Rath and M. V. Kaveri, **Palladium (II) complexes containing substituted thiosemicarbazones. Synthesis, Spectral characterization, X-ray crystallography, biomolecular interactions and in vitro cytotoxicity**, Journal of Molecular Structure, 1206, 127703, 2020, ISSN: 0022-2860, (Indexed in SCOPUS).

5. P. Naveen, B. Vijaya Pandiyan, D. Anu, F. Dallemer, P. Kolandaivel and R. Prabhakaran, **A pseudo trinuclear nickel-sodium complex containing tris(8-methyl-2-oxo-quinolidineaminoethylamine): Synthesis, Spectral characterisation, X- ray crystallography and *in vitro* biological evaluations**, Applied Organometallic Chemistry, 34, 2020, ISSN: 1099-0739, (Indexed in SCOPUS).
6. D. Anu, P. Naveen, R. Rajamanikandan and M. V. Kaveri, **Development of hydrazide based fluorescence probe for detection of Al<sup>3+</sup> ions and application in live cell image**, Journal of Photochemistry and Photobiology A. 405, 112921, 2021 ISSN: 1010-6030, (Indexed in SCOPUS).

### Presentations in Conference

#### International

1. An unexpected mixed valence tetranuclear Copper (I/II) Complex: International conference on “Recent Trends in Chemical Sciences” Department of Chemistry, Kamadhenu college of arts and science, Periyar University, Salem, 3-Jan- 2019.

#### National

1. Unpredicted formation of copper(II) complexes containing 2-thiophen-2-yl-1-thiophene-2-ylmethyl-1h-benzoimidazole and most promising *in vitro* cytotoxicity in MCF-7 and HeLa cell lines over *cisplatin*, National level Seminar on “Emerging Trends in Frontiers in Metal Organic Chemistry” Department of Chemistry, Nirmala College for Women, Bharathiar University, Coimbatore, 18-Feb-2016.
2. Synthesis, Spectral and Structural characterization of Cu(II) and Ni(II) Complexes of containing 2, 2' bipyridine and silver cyanide. National level conference on “Recent Trends in Chemistry” Department of Chemistry, Sri Ramakrishna Mission Vidyalaya College of arts and science, Bharathiar University, Coimbatore, 2-Feb-2018.
3. Palladium (II) complexes containing substituted thiosemicarbazones. Synthesis, Spectral characterization, X-ray crystallography, biomolecular interactions and *in vitro* cytotoxicity. One-day National conference on “Recent Trends in Chemistry” Department of Chemistry, Sri Ramakrishna Mission Vidyalaya College of arts and science, Bharathiar University, Coimbatore, 2-Jan-2020

### Participation in Conference

#### International

International conference on “Advances in chemistry” (ICACSEM-2020), Department of Physical Chemistry, School of Chemical science, University of Madras, Chennai, 9-Jan-2020 to 10-Jan-2020.

## National

1. National Conference on “Current Trends in Chemistry” Department of Chemistry, Bharathiar University, Coimbatore-46, Dec-2-2010 and Dec-3-2010.
2. Seminar on “Emerging Trends in Frontiers in Metal Organic Chemistry” Department of Chemistry, Nirmala College for Women, Bharathiar University, Coimbatore-46, Feb-18-2016.
3. National Conference on “Emerging Materials” Department of Nanoscience and Technology, Bharathiar University, Coimbatore-46, Oct-19-2016 to oct-21-2016.
4. National level seminar on “Advanced Functional Materials” Department of Physics, Bharathiar University, Coimbatore-46, Mar-23-2017.
5. Seminar on “Principles and Applications of Mass Spectrometry, Polarography and Nano Chemistry” Department of Chemistry, Nirmala College for Women, Bharathiar University, Coimbatore-46, Feb-12-2018.

## Participation in Workshop

1. Workshop on “Spectroscopy” Department of Chemistry, Bharathiar University, Coimbatore-46, Mar-7-2012.
2. Workshop on “X-ray Crystallography” Department of Chemistry, Bharathiar University, Coimbatore-46, Mar-5- 2014 to Mar-6-2014.
3. One-week short term courses on “New Avenues in Chemical Science Research” Department of Chemistry, National Institute of Technology-Tirchy, Mar-18-2013 to Mar-22-2013.

## Editorial / Review Board Member

Review Board Member, Journal of Coordination Chemistry, since 2020

## Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best outgoing student	Sri Ramakrishna Mission Vidyalaya College of arts and science/ Bharathiar University	2010