
Profile

Dr. N. PRABAKARAN

Assistant Professor

Department of Chemistry

Yadava College

Madurai-9

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Personal

Date of Birth : 15-05-1980

Teaching Experience

U.G : 7 Years 8 Months

P.G : 1 Year 4 Months

Other (Industry) : 1 year 4 Months

Publication & Research Experience

No of papers Published : 03

Research experience : 07

Research Guidance

M. Phil., : 06

Area of Specialization :
1. Coordination Chemistry
2. Bio-Inorganic Chemistry
3. Nano drug delivery [curcumin]

Administrative Positions Held :
1.Exam Cell Coordinator,
Aug, 2011-July 2014,
C.R. Engineering College
Alagarkovil, Madurai

Communication Address : Plot No.2169 Yazh Mukil Kudil
TNHB colony, Mela Anuppanadi
Madurai-9
Phone-0452-2697093

Academic Qualification

S.No	Degree/Diploma/ Certificate	Discipline	Name of the Institution	Class	Year of Passing
1	B.Sc.,	Chemistry	Yadava College- Madurai	First	2001
2	M.Sc.,	Chemistry	National College- Trichy	First	2004
3	M.Phil.,	Chemistry	Madurai Kamaraj University-Madurai	First	2005
4	Ph.D.,	Chemistry	Madurai Kamaraj University		16 Dec 2011

Service Particulars

Period	Designation	Institute/College/University
03-08-11 to 29-08-2014	Asst. Professor	C. R. Engineering College, Madurai
04-12-14 to 21-03-2016	Chemist	A&B Environmental Services Inc., USA
04-04-16 to 07-08-2017	Asst. Professor	Sri Sai Bharath College, Dindigul
23-08-17 to till date	Asst. Professor	Yadava College, Madurai

Academic Honors

- 2009-2011 Senior Research Fellowship sponsored by (UGC-UPE) Madurai Kamaraj University, India
- 2007-2009 Junior Research Fellowship sponsored by (UGC-UPE) Madurai Kamaraj University, India

Research Experience

- **2007-2009 Research Fellow (RF), Madurai Kamaraj University, Madurai**
- **2009-2011 Senior Research Fellow (SRF), Madurai Kamaraj University, Madurai**
- Synthesis, characterization and DNA interaction studies on Ni, Cu, Au and Fe₃O₄ magnetic nanoparticles
- DNA templated self-assembled of Au, Cu and Ni nanoparticles
- Curcumin functionalized Au and magnetic nanoparticles
- Functionalized core-shell magnetic nanoparticles and their DNA binding studies using EPR technique
- DNA binding studies using cyclic voltammograms (CV), emission and circular dichroism (CD)

- **2006-2007 Project Assistant, Department of Inorganic Chemistry, School of Chemistry, Madurai Kamaraj University**
Synthesis of copper(II) complexes of heterocyclic Schiff bases and their DNA interactions

Responsibilities include

To Guided the PG students and M. Phil., Scholars.

To provide hands on training on instruments and Projects.

2004-2005 Master of Philosophy, Madurai Kamaraj University

Syntheses, characterization and DNA interactions of copper(II) complexes having –diketonates and thiols.

Orientation/Refresher/Training programme/FDP Attended

S. No	Programmes	Theme	Organized By	Date
1	FDP	Engineering Chemistry-II	Anna University, CEG, Chennai	14-12-2012 to 21-12-2012
2	FDP	Material Science and Nano Technology (FDP-MSNT-2020)	B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai-48	03-08-20 to 17-08-20

Articles Published in International Journal

1. **Natarajan Prabakaran** and Periakaruppan Athappan, "DNA assisted fragmentation of nickel nanoparticle clusters and their spectral properties", *J. Inorg. Biochem.* **2010**, 104, 712-717.
2. T. Karuppanapandian, H. W. Wang, **N. Prabakaran**, K. Jeyalakshmi, M. Kwon, K. Manoharan and W. Kim, "2,4-dichlorophenoxyacetic acid-induced leaf senescence in mung bean (*Vigna radiata* L. Wilczek) and senescence inhibition by co-treatment with silver nanoparticles", *Plant Physiology and Biochemistry* **2011**, 49, 168-177.
3. **Natarajan Prabakaran**, Sepperumal Murugesan and Periakaruppan Athappan, "Synthesis of long-life colloidal copper nanoparticles and their ability to modify the DNA structure in a programmable pathway", *Journal of Functional materials and Biomolecules* **2018**, 2(2), 40-47.
4. **Natarajan Prabakaran** and Periakaruppan Athappan, "Curcumin functionalized gold nanoparticle with DNA conjugates for drug delivery", *J. Inorg. Biochem* (To the Reviewer)
5. **Natarajan Prabakaran** and Periakaruppan Athappan, "Enhancement of DNA binding activity of Curcumin@Silane functionalized magnetic Fe₃O₄ nanoparticles by Vitamin-C" *J. Am. Chem. Soc.* (To be communicated)

Seminar/ Conference/ Workshop Papers Presented/Attended

S.No	Name of the Authors	Name of Seminar/ Conference/ Workshop etc..	Sponsoring Agency	Place and Date
1	N. Prabakaran and PR. Athappan	National Seminar on Frontiers in Chemistry-2006		Cochin University of Science and Technology, Kochi-682022 March 25, 2006.
2	N. Prabakaran and PR. Athappan.	National seminar on Emerging Trends in Chemistry	UGC	CPA College, Bodi nayakanr -625 513. July 26-27, 2006.
3	N. Prabakaran	Work shop on Catalysis in Environmental Applications (WCEA-2007)	UGC/DST	National Institute of Technology, Trichy, Dec 2 -3, 2007.
4	N. Prabakaran and PR. Athappan	International Conference on Modern Trends in Inorganic Chemistry (MTIC-XII)	UGC/DST/C SIR	IIT Madras, Dec 6-8, 2007.
5	N. P rabakaran L. Ramanathan and PR. Athappan	10 th Anniversary of CRSI National Symposium in Chemistry (NSC 10)	RSC/CSIR	IISc- Bangalore, Feb 1-3, 2008.
6	N. Prabakaran and PR. Athappan	International conference on coordination & organometallic chemistry (ICCOG-2009)	UGC/DST	Bharathiar University, Coimbatore, March 19&20, 2009.
7	N. Prabakaran and PR. Athappan	12th International Symposium on Inorganic Ring Systems (IRIS-12)	DST/CSIR	IIT-Bombay, Goa, Aug16- 21,2009.

8	N. Prabakaran, M. Vigneshwar, S. Nehru and PR. Athappan	Recent Trends in Chemistry, (RTC-4)	UGC	Jeyaraj Annapackiam college for Women, Periakulam, Feb 18-19, 2010.
9	N. Prabakaran, S. Murugesan and PR. Athappan	Recent Advances in Inorganic and Nano Chemistry (RAIN-2010)	UGC- UPE/DST/ CSIR	Madurai Kamaraj University, Madurai, March 29-30, 2010.
10	R. Venkatkarthick, M. Vigneshwar, M. Karuppuraja, N. Prabakaran, S. Murugesan and PR. Athappan	Recent Advances in Inorganic and Nano Chemistry (RAIN-2010)	UGC- UPE/DST/ CSIR	Madurai Kamaraj University, Madurai, March 29-30, 2010.
11	P. Leeju, N. Prabakaran, M. Rajasekaran, PR. Athappan and K.K.M. Yusuf	Recent Advances in Inorganic and Nano Chemistry (RAIN-2010)	UGC- UPE/DST/ CSIR	Madurai Kamaraj University, Madurai, March 29-30, 2010.
12	P. Krishnamoorthy, P. Satyadevi, N. Prabakaran, PR. Athappan and N. Dharmaraj	Recent Advances in Inorganic and Nano Chemistry (RAIN-2010)	UGC- UPE/DST/C SIR	Madurai Kamaraj University, Madurai, March 29-30, 2010.
13	N. Prabakaran	Workshop on Frontiers in Catalysis Research	RSC	Department of Chemistry, National College, Trichy-1 Oct-01-2010

14	N. Prabakaran	International conference entitled "Frontiers in carcinogenesis and cancer prevention: Scientific advances and public health initiatives (FCCP-2011)"	DSI-CF USA	Dhayananda Sagar Institutions, Bangalore, Feb 16-18, 2011
15	N. Prabakarn and PR. Athappan	National Seminar on Nanostructured Materials and Applications (NSNMA-2011)	UGC/DST	School of Chemistry, Madurai Kamaraj University, Madurai, March 4-5, 2011.
16	N. Prabakaran	International Seminar on Research Methodology ISRM-2016		Aasan College of Arts and Science, Karur, Oct 5 th 2016
17	N. Pabakaran and G. Aadhi satya	International Conference on Recent Advances in Applied Chemical Sciences- (ICRAACS-2019)	UGC	Department Of Chemistry, Sree Sevugan Annamalai College, Devakottai, Sep-06, 2019.
18	N. Pabakaran and G. Aadhi satya	International Conference on Expanding Frontiers in Chemistry-2019	UGC	Department of Chemistry, Arul Anandar College, Karumathur, Madurai, Sep-13, 2019.
19	N. Prabakaran	National Webinar on Structural characterization of drugs by spectroscopic technique		Department of Chemistry, G.T.N. Atrs College Dindigul 20.05.2020

20	N. Prabakaran	National Webinar on Energy, Energy everywhere, How to harness it?		Department of Chemistry, V.O. C. College Thoothukudi 21.05.2020
21	N. Prabakaran	National Webinar on “An insight to NAAC-RAF		IQAC, V.O.C. College Thoothukudi 22.05.2020
22	N. Prabakaran	International Webinar on Metal free photocatalyst for environment enhancing	Thiagarajar & DERE Japan	Department of Chemistry Thiagarajar College Madurai 27.05.2020
23	N. Prabakaran	International Webinar on Current Application of NMR Spectroscopy		TDMNS College, T.Kallikulam Tirunelveli 29.05.2020
24	N. Prabakaran	International Webinar on Chemistry		The American College Madurai 29.05.2020
25	N. Prabakaran	National Webinar on Graphene based Nanocomposite for energy storage		Department of Physics V.O.C. College Thoothukudi 01.06.2020
26	N. Prabakaran	National Webinar on “21 st Century: Emerging Technologies in Chemistry		Dr. Zahir Husain College, Ilayankudi 08.06.2020

27	N. Prabakaran	National Webinar on Designing Chiral molecules for Assymmetric organocatalysis		Department of Chemistry, V.O. C. College Thoothukudi 11.06.2020
28	N. Prabakaran	International Webinar on “Curb on COVID-19 through Chemistry”		Department of Chemistry Govt. Arts College Coimbatore 04.07.2020
29	N. Prabakaran	Three-day National Webinar on “Chemistry in circular economy & sustainability”		Department of Chemistry Directorate of Distance Education MKU Madurai 29 to 31 July 2020
30	N. Prabakaran	National Webinar on “Interface between Academia & Industry in Life Science”		Department of Zoology CBL University Bhiwani Haryana 10.10.2020

Membership in valuation boards

1. Madurai Kamaraj University board of additional examiner.
2. APA College (Autonomous) for Women Palani.