

Faculty Profile

Name : Dr. P. VIJAYAN
Designation : Associate Professor
Address : Dept of Chemistry
Chikkanna Govt. Arts College
Tirupur 641602



Contact Number : 9600151589, 8870064264

Email ID : pvisayan@gmail.com

Date of Joining in Collegiate Education : 04-03-2011

Date of Joining in the Present College : 13-08-2013

Academic Profile :

Degree	Institute/College	University	Period
B.Sc.	Govt Arts College, Coimbatore	Bharathiar University	1998-2001
M.Sc.	SRMV-CAS, Coimbatore	Bharathiar University	2001-2003
Ph.D.	College of Engineering, Guindy	Anna University	2005-2010

Teaching Experience :

- i) **Total** : 9 **Years**
- ii) **UG** : 9 **Years**
- iii) **PG** : 9 **Years**

Name of the college	Position held	Period
Chikkanna Govt. Arts College, Tiruppur 641 602 India	Assistant Professor	13-08-2013 to till date
M.R.Govt. Arts College, Mannargudi	Assistant Professor	04-03-2011 to 12-08-2013

Honors and Research Awards : Best Poster – NCL-Pune, India – Jan’09
CSIR-SRF (2008-2010)

Field of Interest : Catalysis, Nano materials

i) **Teaching** : Organic, Physical and Environmental

ii) **Research** : **Carbon based Nano Materials, Sensors, Photocatalysis for environmental remediation and energy production**

iii) **Proficiency in instrumentation** : HPLC, GC-MS, XRD, BET Surface area Analyzer, UV-Visible, TOC analyzer

iv) **Postdoctoral Experience** : Postdoctoral Fellow – National Cheng Kung University, Tainan, Taiwan (2010-11)

Research Guidance : M.Phil., - 1 (Completed)

Industrial Experience : Chemist – Sakthi Dairy Division, Pollachi – 2003 to 2005

Membership in Professional Bodies : NIL

Research Publications :

- i) **Research Papers** : Please refer Annexure-I
- ii) **Book/Book Chapters** : NIL
- iii) **Patent** : NIL

National and International Conferences : Please refer Annexure – II

- i) **Participated**
- ii) **Paper Presented**
- iii) **Poster Presented**

Conference/Seminars Organized : NIL

Faculty Development Programs Attended :

Course	University/Institute	Subject	Period
Orientation Course	University of Madras, Chennai	General	04-05-2011 to 02-06-2011
Refresher Course	University of Madras, Chennai	Chemistry	04-09-2014 to 24-09-2014
Refresher Course	University of Madras, Chennai	Chemistry	23-08-2018 to 12-09-2018

Academic Activities :

i) **Subject Handled** : **Organic (UG/PG), Inorganic (UG/PG), Physical (UG/PG), Allied Chemistry (UG)**

ii) **Class Advisor** : **2014-2016 PG Chemistry**
2018-2021 UG Chemistry

Professional Activities :

i) **Reviewer** : **NIL**

ii) **Board of Studies/UR** : **Senate Member (Teaching) from January - 2018**

iii) **Examiner/Scrutiny** : **UG/PG practical and theory**

iv) **Others** : **(i) Supported as Observer / Representative for National Testing Agency (MHRD, India) exams (NEET, JEE, UGC-NET, ICAR)**
(ii) Supported as Observer for CBSE CTET and Kendriya Vidyalaya School recruitment exams

Conference/Seminars Organized :

- Organizing Committee Member, 19th State level two days conference on “Quality Higher Education for Everyone – Challenges and Achievements”, conducted by Tamilnadu Government Collegiate Teachers Association (TNGCTA) at Bharathiar University, Coimbatore, 5 & 6 January 2019.

Workshop /Training courses attended

- Bharathiar University and Association of principals of Colleges of Bharathiar University Organised two day workshop on ‘ Revised NAAC Norms and Procedures’ at Bharathiar University , Oct 26 -27, 2018.

Resource Person/Invited Lectures :

- Delivered a Special Lecturer at M.R. Govt. Arts College, Mannargudi – 2015.
- Junior Research Fellow selection committee member for DST funded project - Anna University Constituent College – Nagercoil
- Doctoral Committee Member for Research Students in Karunya University, Coimbatore

Annexure – I

List of Publications in International Journals

1. C. Mahendiran, P. Sangeetha, **P. Vijayan**, S. J. Sardhar Basha and K. Shanthi (2007) “Vapour phase oxidation of tetralin over Cr and Fe substituted MCM-41 molecular sieves”, *J. Mol. Catal. A: Chem*, Vol. 275, Page 84-90.
2. **Periyasami Vijayan**, Chinnathambi Mahendiran, Chinnathambi Suresh and Kannan Shanthi (2009) “Photocatalytic activity of iron doped nanocrystalline titania for the oxidative degradation of 2,4,6- trichlorophenol”, *Catalysis Today*, Vol. 141, page 220-224.
3. S. J. Sardhar Basha, **P. Vijayan**, C. Suresh, D. Santharaj and K. Shanthi (2009) “Effect of Order of Impregnation of Mo and Ni on the Hydrodenitrogenation Activity of NiO-MoO₃/AlMCM-41 Catalyst” , *Ind. Eng. Chem. Res.*, Vol. 48, Page 2774-2780.
4. D. Santharaj, C. Suresh, **P. Vijayan**, N. Venkatathri and K. Shanthi, ‘Mn-MCM-41 molecular sieves: A gas phase cyclohexanol oxidation catalysts’, *Reaction kinetics and catalysis letters* Vol.99 Issue 2, pp.439-446
5. M Gurulakshmi, M Selvaraj, A Selvamani, **P Vijayan**, NRS Rekha, K Shanthi, “Enhanced visible-light photocatalytic activity of V₂O₅/S-TiO₂ nanocomposites”, *Applied Catalysis A: General* Vol. 449, pp.31-46
6. C Mahendiran, T Maiyalagan, **P Vijayan**, C Suresh, K Shanthi, “ V-Mn-MCM-41 catalyst for the vapor phase oxidation of o-xylene”, *Reaction Kinetics, Mechanisms and Catalysis* Vol.105, Issue 2, pp.469-481
7. G Mariappan, **P Vijayan**, C Suresh, K Shanthi, “Titania Nanoparticles Modified with Nitrogen: Enhanced Visible-light Photocatalytic Activity”, *J. Environ. Nanotechnol* Vol.3, Issue 4, pp. 67-72
8. Photocatalytic Reaction Pathway and Mechanism of Degradation Of Pesticide Using Nano Catalysts, Franklin Ebenazer, **P. Vijayan**, N. Sampath kumar, M. Sivadhaya nidhy*, *J. Environ Nanotechnol.* Vol.7, No.2. pp 26-30, (2018).

Papers presented in International / National Conferences/Symposium

1. Participated in National Workshop on Catalysis for Energy held at Banaras Hindu University, Varanasi during February 2006 and presented a paper in poster session entitled “Chromium incorporated MCM-41: Their Applications to Produce Phthalic Anhydride by Vapour phase Oxidation Reactions”, C. Mahendiran, **P. Vijayan**, K. Shanthi
2. Participated in international conference “AANESWM” held at Anna University, Chennai, India during November 2006 and presented a paper in poster session entitled “photocatalytic activity of pure and chromium doped nanocrystalline titania for the oxidative degradation of 2,4,6- trichlorophenol” **P.Vijayan**, R.Maheswari and K.Shanthi.
3. Participated in 18th National Symposium on Catalysis held at IIP-Dehradun during April 2007 and presented a paper in oral session entitled “photocatalytic activity of pure and iron doped nanocrystalline titania for the oxidative degradation of 2,4,6-trichlorophenol”, **P.Vijayan**, C.Suresh and K.Shanthi.
4. Participated in national level workshop **CATWORKSHOP** held at Institute of Minerals and Materials Technology, Bhubaneswar, Orissa from 16.03.2008-19.03.2008 and presented a paper in poster session entitled “Photocatalytic activity Of Cr³⁺ doped nanocrystalline Titania for the oxidative degradation Of Dichlorvos”. **P.Vijayan**, C.Suresh and K.Shanthi.
5. Participated in 19th National Symposium on Catalysis (**CATSYMP-19**) held at National Chemical Laboratory (NCL), Pune, India during January 2009 and presented a paper entitled “Effect of method of synthesis and different metal doping on the photocatalytic activity of titania”, **P.Vijayan**, M. Gurulakshmi, G. Deepa and K.Shanthi.
6. Participated in an international conference “**MatCon-2010**” held at Cochin University of Science and Technology (CUSAT), Cochin, Kerala, India during January 11-13 and presented a paper entitled “Photocatalytic degradation of Methylene Blue using sulphur doped titania nanoparticles”, M. Guralakshmi, **P. Vijayan** and K. Shanthi.

7. Participated in All India Federation of University and College Teachers Organizations (AIFUCTO), XXXI Academic Conference, 23rd to 25th November 2018, organized by JAC(MUTA, TNGCTA & AUT) Tamilnadu, Kanyakumari.
8. Participated in one day state level seminar on “Higher Education for All”, 12th October 2015, organized by Tamilnadu College Teachers Association, Chennai.
9. Participated in IISC Sponsored, Science Academies Lecture Workshop on Recent Advances in Chemical Sciences (RACS -15) organized by Department of Chemistry, Karunya University, Coimbatore, Feb 18th and 19th 2015.
10. Participated in UGC sponsored one day seminar on “NAAC BENCHMARKING POINTERS”, 10th Jan 2015, conducted by IQAC, Chikkanna Government Arts College, Tirupur.
11. Presented a paper on, Photocatalytic degradation of Organophosphorus pesticide using Semiconductor-sensitized composite in Natural water: Effect of Oxidants, Conducted by Government Arts college for Women Salem-7, 19th Sept 2019.