

Faculty Profile

Name of the Faculty : **Dr.R.Udhayakumar**

Department and Designation : Chemistry, AP

Date of Joining : 30-09-2009

Faculty ID : TF0117,
8100034

E-mail Address : udhaya0123@gmail.com
annauniversitychemistry@gmail.com

: +91-9443441023

Date of Birth : 04-06-1973

Qualification : **M.Sc., M.Ed., M.Phil., Ph.D**

- ❖ **Doctor of Philosophy (Ph.D.)** in Chemistry, Annamalai University
- ❖ **Master of Philosophy (M.Phil.)** in Chemistry, Bharathidasan University, Tiruchirappalli
- ❖ **Master of Education (M.Ed.)** in Annamalai University, Chidambaram
- ❖ **Bachelor of Education (B.Ed.)** in University of Madras, Chennai
- ❖ **Master of Science (M.Sc.)** in Chemistry, A.V.C. College, Mayiladuthurai, Bharathidasan University, Tiruchirappalli
- ❖ **Bachelor of Science (B.Sc.)** in Chemistry, A.V.C. College, Mayiladuthurai, Bharathidasan University, Tiruchirappalli.

Specialization :

- ❖ Chemistry,
- ❖ Chemical Kinetics,
- ❖ Catalysis,
- ❖ Environmental Science,

Professional Experience : 19 Years 6 Month



<u>Research Guidance</u>	: <u>Awarded</u>	<u>Ongoing</u>
Ph.D	--	01
M.Phil	03	--

Awards and Honours :

- ❖ Life member of Indian Society for Technical Education

Publications

Internationally Refereed Journals:

1. An.Palaniappan, **R.Udhayakumar**, S.Srinivasan and C.Raju, Kinetics of oxidation of phenoxyacetic acid by TPCC in aqueous acetic acid medium, Der Chemica Sinica, 2012, 3(3), 708-712.
2. An.Palaniappan, **R.Udhayakumar**, S.Srinivasan, and C.Raju, Kinetics and Mechanism of Oxidation of dibenzalacetone (DBA) by Isonicotinium dichromate in aqueous acetic acid medium catalyzed by 1, 10-phenanthroline, Journal of Chemical and Pharmaceutical Research, 2012, 4(5), 2385-2390.
3. S. Nalini, **R. Udhayakumar**, K.Anbarasu, P.Manivannan, K.Raghu, Kinetics and mechanism of the oxidation of some cis- Phenylcinnamic acids by Pyridinium Chlorochromate" in Journal of Advances in Chemistry, 2015,12(5),4434 - 4441.
4. **Udhayakumar.R**, S.Vaideki, P.Manivannan, and K.Raghu, "Assessment of physico – chemical characteristics of water in Tamil Nadu" in Ecotoxicology and Environmental safety. 134(2016) 474-477.

International Conferences

1. **Udhayakumar.R**, S.Vaideki, P.Manivannan, and K.Raghu, “Assessment of physico – chemical characteristics of water in Tamil Nadu” in International conference of Green Technology of Environmental pollution control and prevention organised by Department of chemical Engineering, national institute of Technology, Tiruchirappalli, Tamil Nadu, India

National Conferences

1. **Udhayakumar.R.**; and Vaideki, S .Environment disaster, assessment, planning, prevention and management, **National Conference** on Environment disaster and management, 15–16 July 2006 held at Neyveli Lignite Corporation, Neyveli, India.

2. **Udhayakumar. R.**; and Vaideki, S. Green chemistry, **National Conference** on Green Chemistry, 6–7 April 2006 held at SRM Institute of Science and Technology, Kattankulathur, Chennai.

3. **Udhayakumar.R.**; and Vaideki, S. Pollution Prevention, **National Conference** on Green Chemistry, 6–7 April 2006 held at SRM Institute of Science and Technology, Kattankulathur, Chennai.

4. **Udhayakumar .R**; Prabhu, S; Jeganathan, Kand K.Jothivenkatachalam, Synthesis, Characterisation of $\text{Cu}_{0.5}\text{Co}_{0.5}\text{WO}_4$ and its application on Cr(VI) removal in aqueous medium, UGC-SERO Sponsored First **National Conference** on Thin Film Science and NanoTechnology, 2-3 September 2013 held at Rajah Serfoji Govt College (Autonomous) Thanjavur, Tamilnadu, India.

5. **Udhayakumar.R**, S.Vaideki, P.Manivannan, S.Nalini and K.Raghu, “Kinetics and Mechanism of the oxidation of some cis-, *cis-a*-Phenylcinnamic acids by Pyridinium Chlorochromate **National Conference** on Recent trends in smart materials organised by Kings college of Engineering ,Punalkulam, Thanjavur.

6. **Udhayakumar.R**, S.Vaideki, P.Manivannan, S.Nalini and K.Raghu, “Mechanistic investigation of oxidation of dibenzalacetone (DBA) by isonicotinium dichromate in aqueous acetic acid medium - catalysed by 1,10 –phenanthroline. A kinetic study”, **National Conference** on Emerging Trends in Chemical Sciences organised by Jerusalem college of Engineering ,Narayanapuram, Chennai – 600100

Books Published

1. Chemistry-II by **Udhayakumar, R.**; and Vaideki, S., R.L Publication
2. Chemistry-I by **Udhayakumar, R.**; and Vaideki S., R.L Publication
3. Chemistry-II by **Udhayakumar.R** & Vaideki.S., R.L Publication
4. **Tamil Medium Text Book** -1 Unit in AUT Published
5. Engineering Chemistry-I by **Dr.R.Udhayakumar**
6. Engineering Chemistry-II by **Dr.R.Udhayakumar**
7. Environmental Science and Engineering by **Dr.R.Udhayakumar**
8. Chemistry for Technologists by **Dr R.Udhayakumar**

CONFERENCES/WORKSHOPS/SEMINAR/ SHORT TERM COURSE ATTENDED

1. National Seminar on “**Theoretical and Chemical Sciences**” 22–23 February 2008 at Annamalai University, Chidambaram, India
2. Workshop on “**Nanomaterials (Science, Technology and Application)**”,5–6 March 2008 at National Institute of Technology, Tiruchirappalli, India
3. Seminar on “**Tools of Quality Management**” 6 August 2006 at IFET College of Engineering, Villupuram, India
4. National Workshop on “**Emerging Trends in Electrochemical Science and Technology**” 17–18March 2006, jointly organized by ISTE, Central Electrochemical Research Institute, Karaikudi and Raja College of Engineering, Madurai, India
5. Course on “**Professional Ethics**” 26November 2006 at IFET College of Engineering, Villupuram, India
6. Awareness Programme on “**Six Sigma**” 21 August 2005 at IFET College of Engineering, Villupuram, India.

7. National Seminar on “**Copy Rights**” 23 April 2004, at Annamalai University, Annamalai Nagar Chidambaram, India
8. House Staff Development Programme on “**Team Building and Conflict Resolution**”, 10 & 17 October 2004 at IFET College of Engineering, Villupuram, India
9. National Workshop on “**Teaching Technology and Counselling skill**”, 3–4 August 2002 at IFET College of Engineering, Villupuram, India.
10. Participated in the National Symposium, **Nanorevelations-2010** organised by the Department of Nanoscience and Technology, Anna University of Technology Tiruchirappalli on September 9th 2010.
11. Participated in MNRE & CSIR Sponsored two days National conference on “**Recent Trends in renewable Energy sources for sustainable Development (NCRES2011)**” organized by the Department of Petrochemical Technology, Anna University of Technology, Tiruchirappalli – 620 024 on 22nd - 23rd February 2011.
12. Participated in **Regional workshop for students, faculty and non teaching staff satisfaction survey** on 22-09-2014 at M S Ramaiah Institute of Technology, M.S.R Nagar, Bangalore.
13. Attended three days workshop on **Application of ICT for Teaching Gen Y Students** from 9-10-2014 to 11-10-2014 at Courtallam.

CONFERENCES/WORKSHOPS/SEMINAR ORGANISED

1. **Coordinator: Royal Society of Chemistry (RSC)** Sponsored One day National Seminar on Photocatalysis for Sustainability: Fundamentals Applications (PHOCATS-2013) on 9th Oct, 2013 at Anna University, BIT Campus, Tiruchirappalli.
2. **Coordinator: TEQIP Sponsored** National Seminar on Modern Trends in Chemistry (MTC-2013), on 17-18th Dec, 2013 at Anna University, BIT Campus, Tiruchirappalli.
3. **Coordinator: TEQIP-II Sponsored International conference** on Advances in Biological Chemical & Physical Sciences (ABCPS) on 13-15th Dec, 2017 at Anna University, BIT Campus, Tiruchirappalli

Other contribution (if any)

Special Contribution

First time in Engineering colleges introduced Tamil Medium Course, First Batch Handling and Preparation of Text book for I and II Semester of B.E students (UNIT. Water, Engineering Materials) and lab manual is my specific contribution.

Other Activities

1. **Programme Officer** –NSS from 2003 to 2007 IFETCE, Villupuram
2. **Admission Officer** from 2005 to 2009 in IFETCE Villupuram.
3. **Team Leader**-Academic Planning Committee from 2007to 2009 in IFETCE Villupuram
4. **Coordinator** –**For Hostels** in IFETCE Villupuram
5. **Transport Coordinator** in IFETCE Villupuram
6. **Exam Cell Controller** from 2007 to 2008inIFETCE Villupuram
7. **Coordinator** –**For Hostels** from 2007 to 2009inIFETCE Villupuram
8. **Department Coordinator** for Exam Cell, in Anna University, BIT Campus, Trichy (2009-2011).
9. **Anti ragging Committee** member in Anna University, BIT Campus, Trichy (from 2013)
10. **TEQIP** Assistant Academic coordinator in Anna University, BIT Campus, Trichy (from 2013)
11. **Coordinator** for **APJ Abdulkalam auditorium** in University College of Engineering, Anna University, BIT Campus, Trichy. (From 2016)
12. **Additional First Year Coordinator** in University college of Engineering, BIT Campus, Anna University, Tirchirappalli. (From 2017)