P.E.S. College of Engineering, Mandya - 571401

(An Autonomous Institution, affiliated to VTU, Belagavi)

Faculty

General

Name	*Dr. Charan Kumar H.C*
Designation,	*Assistant Professor*
Department & Affiliated	*Department of Chemistry, P.E.S College of Engineering, Mandya – 571 401*
Research Area	Nanochemistry,Synthesis of nanoparticles,Photodegradation
Contact Number	*+91 8123197164,+919019571141*
Email ID	charan1424dec@gmail.com

Academic

Educational

Degree	College	University	Year of Passing	% ge	Class
Ph. D	*Department of Studies in Chemistry*	*University of Mysore, Mysuru*	*2020*	-	-
M. Sc.,	*St.Philomenas College*	*University of Mysore, Mysuru*	*2013*	72.9	*I - Class*
B.Sc	*Yuvaraja's College Mysore*	*University of Mysore, Mysuru*	*2011*	*49.7*	*Pass Class*
B.Ed	*bhagavan Buddha B.Ed college.*	*University of Mysore, Mysuru*	2014	72.75	*I - Class*

Professional

Organization and Department	Designation	Period	Total
Gov.Womens college Mysore Vijaynagar 4th stage Mysore	*Lecturer*	*2016-2020*	*04 Years*

Reports on Academic and Research Activities

Academic

Teaching Records (Details of courses taught)	*B.Sc (Undergraduate) –Cordination chemistry,reaction kinetics,Nanotechnology and nanochemistry,Periodiocity,Transition elements,Inner transition elements,Thermodynamics.*

Research Guidance (Candidates Awarded / Pursuing Ph.D / M.Sc., Engg./ M.Phil)

Degree	Ph. D.	M.Sc., Engg.	M.P
Awarded	*Nil*	*Nil*	*N*
Pursuing	*Nil*	*Nil*	*N*

Sponsored Research Projects (List of Projects taken up /completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Sanctioned	Grants
Nil	*Nil*	--	*N*

Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals	*Nil*	*16*
Conferences/Symposia	*11*	*6*

Research Publications:

- Electrochemical Degradation of Acridine Orange Dye at Pd/graphite Modified Electrode in Aqueous Solution. **Charan Kumar H.C**, Shilpa.R, Ravishankar Rai V. and Ananda*.S. nternational Journal of Applied Chemistry.Volume 13, Number 2 (2017) pp. 219-234

- Electrochemical Degradation of indigo carmine Dye at Ru/graphite Modified Electrode in Aqueous Solution. **Charan Kumar H. C**, Shilpa. R, Ravi Shankar Rai. V and Ananda. S*. IOSR Journal of Applied Chemistry (IOSR-JAC) e-ISSN: 2278-5736.Volume 10, Issue 12 Ver. I (December. 2017), PP 47-61

- Synthesis and Characterization of NiO Nanoparticles by Electrochemical Method: Photodegradation Kinetics of Indigo Carmine Dye and Study of Antibacterial Activities of NiO Nanoparticles. **Charan Kumar H.C**, R. Shilpa, V. Ravi Shankar Rai and Sannaiah Ananda*. Journal of Applicable Chemistry, 2019, 8 (2):622-63.

- Synthesis of Cadmium Oxide Nanoparticles by Electrochemical Method: Its Photodegradative Effects on Carboxylic Acids and Antibacterial Behaviours. **Charan Kumar H.C**, Rajegowda Shilpa, Sanniaha Ananda*. Journal of Nanoscience and Technology 5(5) (2019) 840–845.

- Correlation for Photocatalytic Degradation Kinetics of Carboxylic Acids using Electrochemically Synthesized Al_2S_3 Nanoparticles and Study of Antibacterial Activity. **Charan Kumar H.C,** Shilpa Rajegowda, Sannaiah Ananda*. Asian Journal of Chemistry. 32(6):1443-1450

- Synthesis and Characterization of Al-Doped ZnO Nanoparticles by Electrochemical Method: Photodegradation Kinetics of Methylene Blue Dye and Study of Antibacterial Activities of Al-Doped ZnO Nanoparticles. **Charan Kumar H. C**, R. Shilpa and Sannaiah Ananda*. Journal of Applicable Chemistry, 2020, 9 (1):9-21

- Synthesis of NiS nanoparticles by electrochemical method: correlation for photodegradation kinetics of oxalic acid, formic acid, acetic acid and antibacterial study of synthesized NiS nanoparticles. **Charan Kumar H.C**, Shilpa Rajegowda, Sannaiah Ananda*. Our Heritage Vol-68-Issue-1-January-2020

- Electrochemical Degradation of indigo carmine Dye at Pd/graphite Modified Electrode in Aqueous Solution. Shilpa.R, **Charan Kumar H.C,** Ravishankar Rai.V and Ananda.S*. IOSR Journal of Applied Chemistry (IOSR-JAC) e-ISSN: 2278-5736.Volume 10, Issue 7 Ver. III (July. 2017), PP 01-10

- Preparation and Characterization of Ru/graphite Modified Electrode: A Kinetic Investigation of Electrochemical Degradation of Acridine orange Dye in Aqueous Solution. Shilpa. R, **Charan Kumar H. C,** Ananda. S* and Ravi Shankar Rai.V. JETIR July 2018, Volume 5, Issue 7.

- Synthesis of CdS Nanoparticles by Electrochemical Method: Correlation for Photodegradation of Trichloroacetic Acid, Chloroacetic Acid, Acetic Acid and Antibacterial Efficiency. Rajegowda Shilpa, **Charan Kumar H.C**, Sanniaha Ananda*.

- Synthesis of Nickel Oxide Nanoparticles by Electrochemical Method, Characterization and Photodegradation of Acetic Acid and Study of Antibacterial Activity of Synthesized Nickel Oxide Nanoparticles. Rajegowda Shilpa, **Charan Kumar H.C**, Sanniaha Ananda*. IJRASET Volume 7 Issue IX, Sep 2019.

- Correlation for Photocatalytic Degradation Kinetics of Carboxylic Acids by Electrochemically Synthesized Cd/ZnO Nanoparticles and Study of Antibacterial Behaviour. Shilpa R., **Charan Kumar H.C**. Sannaiah Ananda*. International Journal of Nanomaterials and Nanostructures. ISSN: 2455-5584 Vol. 6: Issue 2.

- High Efficient photocatalytic degradation of 3,7-bis(Dimethylamino)-phenothiazin-5-ium chloride dye and kinetics of hydrogen evolution of $N_2H_4H_2O$ by synthesized CdS/NiS Nanocomposites by electrochemical method. Shilpa.R, **Charan Kumar H.C**, Sanniaha Ananda*.MRC.

- Electrochemical Degradation of 3-(dimethylamino)-7-(methylamino) phenothiazin-5-ium chloride Dye at Barium/Graphite Modified Electrode in Aqueous Solution. C. N. Kumara, **Charan Kumar H.C** and Sannaiah Ananda*. Journal of Applicable Chemistry, 2021, 10(1):49-61

- A Kinetic Investigation of Electrochemical Degradation of 2-N, Ndimethyl-4-aminophenyl azobenzene carboxylic acid dye at Zr/graphite Modified Electrode in Aqueous Solution. H. S. Sindhushree ,**Charan Kumar H.C** , K. M. Chaithra , Sannaiah Ananda and B. M. Venkatesha* Journal of Applicable Chemistry, 2020, 9 (6):920-933.

- Electrochemical Degradation of 2-(2, 4, 5, 7- tetrabromo-6-oxido-3-oxo-3H-xanthen-9-yl) benzoate Dye at Ru/graphite Modified Electrode in Aqueous Solution. Chaithra K.M ,**Charan Kumar H.C** , Sindhushree. H.S , Sannaiah Ananda,* , Venkatesha B.M . International Journal of Applied Chemistry. ISSN 0973-1792 Volume 16, Number 2 (2020) pp. 113-129

Paper Presented in Conferences:

- Electrochemical Degradation of Acridine Orange Dye at Pd/graphite Modified Electrode in Aqueous Solution **Charan Kumar H.C**, Shilpa.R, Ravishankar Rai V. and Ananda*.S A paper presented in the national conference on: Emerging trends in engineering and sciences , Jiwaji university ,Gwalior (May,2016)

- Electrochemical synthesis of ZrS_2/ZnS, In_2S_3, MoO_2, Mo/TiO_2 nano photo catalysts and Ru/Graphite modified electrode and its application in electrochemical degradation of dyes, industrial effluents, Production of H_2, antibacterial and antimitotic activity, Sannaiah Ananda, **Charan Kumar H C**, Shilpa R, Uma H B, Gubran M A, Raksha K R, 9th Bengaluru India Nano 2017 conference in the hotel The Lalit Ashok, Bengaluru

- Preparation and Characterization of Nano SnO_2/graphite Modified Electrode: A Kinetic Investigation of Electrochemical and photo-Assisted Degradation of Rhodamine–B Dye in Aqueous Solution Shilpa.R**, Charan Kumar H.C**, Raksha K.R, Ravishankar Rai.V, Ananda*.S International conference on nanomaterials and their applications held at university of Mysore, Mysuru, India, during March 1-2, 2018.

- Preparation and Characterization of Nano SnO_2/graphite Modified Electrode: A Kinetic Investigation of Electrochemical and photo-Assisted Degradation of Methylene blue Dye in Aqueous Solution ., Shilpa.R**, Charan Kumar H C**, Ravishankar Rai.V, Ananda*.S One day national conference on "Current trends in materials science"-2018, held on 10th march 2018, Bharathi College, Bharthinagara, Maddur

Conferences/ Workshops/ Symposium attended

- Participated national conference on "**recent trends in bioorganic chemistry and its application to society"** held on 26&27 September 2014 , in Sarada Vilas college ,Krishnsmurthypuram ,Mysore
- One day workshop on**" Effective teaching and learning to new faculty members"** held on 7th November 2014 ,Organized by the IQAC shanthi first grade college.Malavalli
- Participated national conference on "**Pure and applied chemistry**" held on 29th to 31st of December 2014 organized by the department of chemistry ,Manasagangaotri,university of Mysore ,Mysuru
- .Participated one-day seminar on **"recent innovations in Bio-inorganic & medicinal chemistry"** held on January 28th ,2015 organized by department of chemistry ,The national institute of engineering ,Mysuru
- Participated two day national conference on "**current trends in chemical biology**" held on 2nd &3rd march 2015 organized by postgraduate department of chemistry, JSS college of arts, commerce and science
- Participated one-day state level seminar on **"Emerging trends in medicinal chemistry**" held on 10th march 2015 organized by department of chemistry and Biochemistry,st. Philomena's college ,Mysuru
- Participated one-day national seminar on "**chemistry and chemical biology**" held on 26th may 2015 on the occasion of Prof.K.S.Rangappa's birthday celebration.
- Participated seminar on "**Benefits of nuclear and material sciences in day-to-day life**", held on 21st &22nd August,2015,organized by indian nuclear Socity,Mysore & university of Mysore, Mysuru
- Participated in the **103rd indian science congress** held at university of Mysore, Mysuru from January 3rd to 7th , 2016
- Participated national conference on" **Emerging trends in engineering and sciences**" ,Jiwaji university, Gwalior, held on May 16-17,2016
- Participated two-day seminar and exhibition on "**Energy mix: need for the nation**", held on January 11-12th ,2017,organized by organized in association with indian nuclear society-Mysuru chapter

- Participated In one day national seminar on **"Nanotechnology for energy, Environment and Health"** held on 28th February 2017 at NIE institute of technology, Mysuru.
- Participated in **"UGC sponsored one day national conference on research advancements in chemical biology"** held on 23rd march 2017 at jss college N Road, Mysuru
- Participated in international conference on "**nanomaterials and their applications**" held at March 1-2, 2018. At university of Mysore,mysuru
- Participated in one day national conference on **"current trends in materials science-2018**",held on 10th march 2018,organized by the department of chemistry(ug,pg&rc),Bharathi college,Bharthinagara,Maddur
- 9th Bengaluru INDIA NANO 2017 held on Dec 7-8, 2017 the lalit Ashok,Bengaluru,India
- 11th Bengaluru INDIA NANO 2020 held on March 2-4, 2020 the lalit Ashok,Bengaluru,India