Dr Chithra P G

Associate Professor of Chemistry

ADDRESS & EMAIL

Chithira, Priyadarsini Nagar 108(A)

II Mile stone, Kilikolloor P O, Kollam

chithrasumej@gmail.com

drchithrapg@sncwkollam.org

QUALIFICATION

MSc, MPhil, Ph.D

DATE OF JOINING

11.03.1997

EXPERIENCE IN YEARS

24 years

AREA OF SPECIALIZATION

Physical Chemistry

ADMINISTRATIVE DISTINCTION

- Research Committee Coordinator(2020-21)
- International Webinar series Coordinator 2020 July
- PG Admission committee convenor (2020-21)
- Library Advisory Committee member (2015-20)
- Head of the Department
- Encon club member (2019-2021)

PAPER PRESENTATIONS

- International seminar on Supra and nano chemistry of bio active molecules 2019-A novel sensor for ascorbic acid and uric acid based on Graphene-Chitosan composite .
- International seminar on advanced materials June2019-A novel voltammetric sensor for morphine detection based on electrochemically synthesized Poly(aminobenzenesulfonic acid)/Reduced graphene oxide composite.
- International conference on energy and environment December 2019-Novel Enzyme Biosensor for catecholamines.
- Green approaches towards chemical synthesis-A novel electrochemical sensor based on copper-poly(alanine)film for the determination of morphine.
- 31st Kerala science congress 2019-A novel electrochemical sensor for the determination of morphine based on the conducting polymer poly (CTAB)/Graphene oxide nanocomposite.
- International conference on emerging frontiers and challenges in chemistry February2014-Thermal and ageing of maleated natural/organoclay nanocomposites.
- National seminar on Frontline approaches in material science and computational chemistry March2018-a)A review on green synthesis of nanoparticles. b)Strain sweep and cure characteristics of nitrile rubber/closite 30B nanocomposites.

- Green chemistry-Environmental and Economic benefits June 2014-Synthesis characterization and application of Sn (IV)phosphorous acid in the nano form.

PARTICIPATION IN SEMINARS/ CONFERENCES/ WORKSHOPS

- Workshop on Practicals in Chemistry
- Theory and Applications of Fourier Transform Spectroscopy in Chemistry
- Regional workshop on Computer Applications in Chemistry
- National workshop on applications of computational chemistry in spectroscopy
- Lecture on Computational Chemistry
- G CHEM Paint training online seminar
- College level Training Programme in General Informatics
- Catalysis for Green Chemistry
- Advanced Polymer MaterialsParticipated in the Five day National E-workshop on 'Advanced materials: Properties and Applications organised by NIT,Karnataka, Surathkal.
- UGC Sponsored Orientation Programme/ Refresher courses
- Completed one orientation course from 24-11-1999 to 21-12-1999.
- Participated in the Refresher course in Chemistry from 02-12-02 to 23-12-02
- Participated in the Refresher course in Chemistry from 03-09-2004 to 24-09-2004
- Participated in the Refresher course in Chemistry from 30-08-2007 to 20-09-2007.

HRDC Courses attended other than Orientation and Refresher courses:

- Stimulating Teachers through advanced training programme (STAT) workshop for college teachers on chemistry materials. NIIST,TVM. 13.09.2010 to 17.09.2010. Govt of Kerala.
- Five day workshop on Restructuring of B.Sc.chemistry Programme. University Buildings TVM. 02.03.2009 to 06.03.2009. University of Kerala
- Familiarize teachers with the semesterization of the UG Programme under choice based credit and semester system. UGC-ASC,TVM. 5th and 6th August 2010. University of kerala

PUBLICATIONS IN BOOKS OR JOURNALS

1. Synthesis, Characterization and Application of Sn(IV) Phosphorous acid in the nano form,International J of Engineering Research and Management,(2014).

2. Synthesis Characterization and Application of nanodimensional silver tungstate,P G Chithra & Vijayalekshmi V, International J of Advance research in science and Engineering(2015)

3. Synthesis and characterization of Sn(IV)phenyl phosphonate in the nano form,Chithra sumej&Beena Raveendran,(2008)

4. Studies on the effect of Montmorillonite clay in combination with Graphene oxide on the properties of chitosan, Suma S,Manoj S V&Chithra P G,International J of Chemistry Research,(2012).

5. Proton transport properties of tin phosphate,chromotropic acid anchored onto tin phoaphate and tin phenyl phosphonate,Chithra sumej,P P Sharmila,Nisha J Tharayil & S Suma,Bull.Mater.Sci (2013).

6. Parachlorophenol anchored tin antimonate- An Inorgano Organic ion exchanger for the separation of heavy metals like Bi(III) and Cu (II),P G Chithra, R Raveendran & B Beena, Desalination,(2008)

7. Optical Electrical and Structural studies of nickel-coblt oxide nanoparticles,Nisha J Tharayil,R Raveendran,Alaxender Varghese Vaidyan & P G Chithra,Indian J of Engineering & Materials Sciences (2008).

8. O-Chlorophenol anchored tin antimonate-An ion exchanger for the separation of heavy metals,P G Chithra & B Beena,Indian J of chemical technology,(2008).

9. Green synthesis Characterization and Cyclic voltammetric studies of nano Zinc oxide,Chithra P G & Vijayalekshmi V,International J of Engineering,Science & Mathematics,(2017).

10.Graphene oxide supported palladium nanoparticle as an electrochemical sensor for epinephrine,S.Renjini,Pinky Abraham,T.Jyotish Kumar, V Anithakumary & P.G Chithra,A I P Conference Proceedings,(2019).

11.Catalytic activity of [Cu(NH3)4]2+ sorbed on an inorgano organic ion exchanger -tin(IV) phenyl phosphonate,P.G Chithra & B Beena,Oriental J of Chemistry,(2007).

12.Analysis of Effluents discharged to Ashtamudi Lake from China clay Industries,Suma S, Manoj S V & Chithra P G,Analysis of effluents discharged to ashtamudi lake from china clay industries,(2012).

13.An Electrochemical sensor based on Electrodeposited CTAB Film on Glassy Carbon electrode for detection of Morphine,Pinky Abraham,S.Renjini,V Anithakumary & P G Chithra,Asian J of Chemistry,(2019).

14.A novel voltammetric sensor for morphine detection based on electrochemically synthesized poly (P-amino benzene sulfonic acid)/reduced graphene oxide composite,,Pinky Abraham,S.Renjini,T E Nancy Mary,V Anithakumary & P.G Chithra,A I P Conference Proceedings(2019).

15.A comparative study of catalytic activity of tin phosphate and tin phenyl phosphonate,Chithra P G & Beena B,Indian J of Chemical technology, (2008).

16.A comparative study of bronsted acidity of tin phosphate and chromotropic acid anchored tin phosphate, P G Chithra & Nisha J Tharayil,Oriental J of Chemistry,(2008).

17.[Cu(NH3)4]2+ SnP as a catalyst,Chithra P G,Nisha J Tharayil &Beena B,Indian J of chemical technology, (2009).

18.Green synthesis of ZnO/MgO nanocomposites and their optical studies,Chithra P G,Poornima Vijayan P,Vijayalekshmi V&Renjini S,IJAIS,(2021).

Book chapter published

- One Book chapter named Research Perspectives in Chemistry for sustainable development Published on 07-07-2020 Editors-Dr.Bindu Sharmila T.K, Dr.Sreesha Sasi,Dr.Smitha George.Publisher-Excel India - Photocatalytic decomposition of Malachite green in aqueous solutions under UV irradiation using natural rubber latex-Clay/TiO2 nanocomposites.

Completed Research Projects

Completed two minor research projects of UGC and one student project of STEC.

1.Synthesis characterization and application of some nanomaterials .

2.Inorgano organic ion exchangers.

3.Green synthesis of nanometal oxides.

MEMBERSHIP IN PROFESSIONAL BODIES

- Executive member, ACT.

RESEARCH OUTPUT

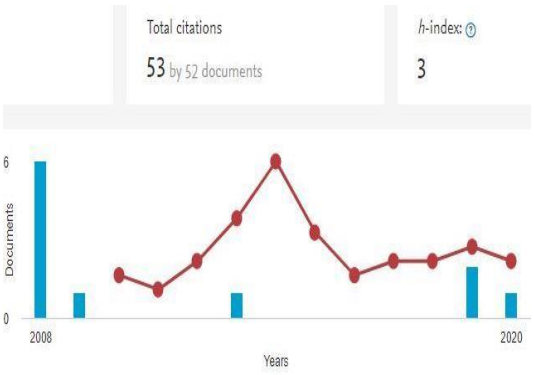
- Approved Research Guide, University of Kerala
- No of PhD produced - 2

CITATIONS AND INDEXING, IF ANY

JOURNAL CITATIONS and INDEXING (h-INDEX)

Scopus ID-23569227200

https://www.scopus.com/authid/detail.uri?authorId=23569227200



Google scholar-https://scholar.google.com/citations?user=92wuC8IAAAAJ&hl=en