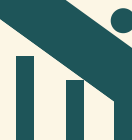




DR.K.POONKODI, MSC.,MPHIL.,PHD.

Assistant Professor & Head



WHO I AM AT A GLANCE

I am Assistant Professor with highly developed analytical skills and a strong capacity to conduct independent research, with positive attitude and pro-active frame of mind and a desire to Lead a Team of dedicated workforce with good interpersonal relationship and sound results".

PERSONAL PROFILE

OFFICIAL ADDRESS

Dr.(Mrs).K.Poonkodi,
Head & Assistant
Professor, NGM College,
Pollachi-642001.

Areas of Expertise

- **Phytochemistry**
- **Essential oil analysis**
- **Environmnetal Science**
- **Nanochemistry**
- **Organic synthesis**
- **GC-MS, NMR and FT-IR**
- **Adsorption studies**

CONTACT ME AT:

Email: ngmpgchem@gmail.com,
ngmvac2020@gmail.com

Carrier History-15 years

**Assistant Professor & Head| NGM College, Pollachi |
July-2015-Till date**

PG Department of Chemistry

**Assistant Professor|Arjun College of technology|
August 2014-June 2015**

Department of Science & Humanities

**Assistant Professor|Karpagam College of Engineering|
August 2007- September 2013**

Department of Science & Humanities

**Assistant Professor|Maharaja College of Arts & Science
College| August 2005- march 2007**

Department of Chemistry

Academic Background

Karpagam University, Coimbatore

PhD in Chemistry | July 2009 - July 2015

- **Graduated with Distinction**
- **Doctoral Thesis: Phytoconstituents of Richardia scabra and Ocimum basilicum Linn and its Biological activities**

Annamali University, Chidamparam

M.Phil in Applied Chemistry| September -2009

Avinashilingam University, Coimbatore

MSc in Applied Chemistry| July 1998- May 2000

- **Graduated with Honors**
- **Masteral Thesis: Yitria stabilised Zirconia Solid electrolyte via polymeric precursor routes.**

Madurai Kamaraj University

BSc in Chemistry | July 1998- May 2000

-Graduated with Distinction

PROJECT PROFILE

Synthesis and characterization of Ytria stabilized Zirconia Solid electrolyte –via Polymeric precursor routes. IGCAR, Kalpakkam.

Elemental analysis of Stainless Steel by atomic absorption spectroscopy and atomic emission spectroscopy. IGCAR, Kalpakkam.

Infra red spectral studies and substituent effects of N-Salicyloyl Benzaldehyde Hydrozone. Annamalai University, Chidambaram.

Phytoconstituents from Ocimum basilicum Linn. and Richardia sacbra Linn. and their biological activities. Karpagam University, Coimbatore.

VIEWER OF JOURNALS

Journals from Academic Sciences-India (Since 2015)

Journals from Bentham Science -Netherlands

International Journal of Pharmaceutical Research and Bio-Science- India

Journal of Essential Oil Bearing Plants (Taylor& Francis)- UK

Science Domain International-India, USA and UK

Journal of Biologically Active Products from Nature (Taylor& Francis)- UK

CONFERENCES/GUEST LECTURE ORGANIZED

Coordinated a Faculty Development Program on 07/02/15 in Arjun College of Technology, Tamaraikulam. (NLP-Trainer- Mr. Bharat Chaugule).

Organized a Guest Lecture on “Quantum Mechanics and Computational Chemistry” the lecture delivered by Dr. G. Saranya, Post doc., The Beijing Computational and research Center, China on 03/10/17 at NGM College, Pollachi.

Organized a National Conference on “Recent Innovations in Greener Nanotechnology” on 21st July 2017 at NGM College, Sponsored by NGM Management, Pollachi.

Organized a one day National level workshop on “Micro scale experiments in Chemistry” on 9th January 2018 at NGM College, Pollachi.

Organized a one day state level workshop on “Spectral data interpretation and chromatography technique” on 26th July 2018 at NGM College, Pollachi

Organized a Guest Lecture on “Magnetic Nanomaterials for Cancer Drug Targeting”, conducted by the PG department of chemistry 12th September 2018 (Wednesday) at NGM College, Pollachi.

Organized a Guest Lecture on “NMR SPECTROSCOPY” conducted by the PG department of chemistry 13.10. 2018 at NGM College, Pollachi

Organised a Guest lecture on “Recent research development in chemical Sciences” by the PG department of chemistry 18th March 2019 at NGM College, Pollachi.

WORKSHOPS/ FDP ORGANIZED

- Organised Tamilnadu State Council for Science and Technology sponsored Two days national level seminar on Advanced materials for Energy, Environment and Medicinal Applications on 11.07.2019 & 12.07.2019 at NGM College, Pollachi.
- Organised a Guest lecture on "SUPRA MOLECULAR ASSEMBLY OF NANO AGGREGATES" conducted by the PG department of chemistry 02.08.2019 at NGM College, Pollachi.
- Organised Tamilnadu State Council for Higher education sponsored Two days national level Conference on Role of Phytochemicals and Advanced Materials in Cancer Prevention and Research" on 26.02.2020 & 27.02.2020 at NGM College, Pollachi.
- Organised CORONA (Covid -19) Awareness quiz on 18.04.2020 at Online mode.
- Organized One day online International Faculty Developed Program on "Recent Innovations in Green Cosmetics" 12.05.2020.
- Organized One week Virtual International Faculty Development Program On "Advanced Topics in Chemical Sciences" from 16.05.2020 to 21.05.2020.
- Organized One day Online Workshop for students on Multimedia enriched e-Assignment on the occasion of World Environment day - June 5, 2020.

ACADEMIC ACTIVITIES

- No of Ph.D guiding : 1
- No of M.Phil guiding : 1
- No of M.Sc Project guided : 31, Ongoing-04
- No of Articles Published
International/ National Journals : 22
- No of Paper presented in Conferences/seminars : 11

ACADEMIC ROLE PLAY

- Serving as a coordinator for Quiz Club in NGM College, Pollachi.
- Member in TNPSC Coaching
- Member in NIRF ranking
- Coordinator in NGM Traders
- Member in Uzhavu Bharatham certificate Course.
- Member in Board of studies
- Member in Result Passing Board
- Criterion Manager for NAAC ranking
- Member in Examination reform Committee
- Chairman in Board of Studies, PG Department of Chemistry, NGM College, Pollachi.

RESOURCE PERSON

Guest lecture on “Chemistry of Plants”, Shri Nehru Maha Vidyalaya College of Arts and Science, Coimbatore on 18.10.2016.

Delivered Guest lecture on “Chemistry in day today life” in Tamilnadu State Council for Science and Technology sponsored in-service training for government Schoolt teachers on 13.08.2017, NGM College Pollachi.

Chairperson for Paper Presentation in the one day State level Seminar on Corrosion Management in Daily Life-18th August 2017.

An extension Activity on Handmade herbal soap making, in Karumapuram Village, Pollachi Taluk, for Celebration of World’s Womens day, on 08.03.2020.

Workshop on “Handmade herbal soap making” in Kongunadu Arts & Science College, Coimbatore-20.03.2019.

FDP on ICT Tools for Collaborative learning in NGM College, Pollachi, on 4th February 2020.

GUIDESHIP

- **Obtained M.Phil and Ph.D Guideship in Bharathiar University, Coimbatore (1804-6/A2/2016 & 28/08/2016.**

FDP/WORKSHOPS ATTENDED

- **WORKSHOP ATTENDED-10**
- **SEMINARS ATTENDED-75**
- **ONLINE COURSES-15**
- **ONLINE FDP COMPLETED-25**
- **ONLINE WEBINAR ATTENDED-35**
- **ONLINE INTERNATIONAL CONFERENCES-5**

BOOKS EDITED -05

- Edited book on “Recent Innovations in Greener Nanotechnology” (ISBN number -9788193388266).
- Edited book on “Advanced Materials for energy, Environment and Medicinal Applications” (ISBN number -9789387009561).
- Edited Book on Role of Phytochemicals and Advanced materials for Cancer Prevention and Research (ISBN-97903887661)
- Uzhavu Bharatham- paper-I
- Uzhavu Bharatham- paper-II
- Uzhavu Bharatham- paper-III (ISBN Number-978-93-87009).

RESEARCH PUBLICATIONS

1. Poonkodi Kathirvel and Subban Ravi. Chemical composition of essential oil of basil (*Ocimum basilicum* Linn) and its invitro cytotoxicity of HeLa, HEP2 human cancer cell lines and NIH 3T3 Mouse embryonic fibroblasts in Natural product research, 2012 26(12), 1112-1118.(Impact factor 1.4, SCI, pub med).
2. K.Poonkodi and S.Ravi. Phytochemical investigation and in vitro antimicrobial activity of *Richardia scabra*. Bangladesh J Pharmacol 2016; 11: 348-352. Impact factor (1.02). (Scopus, SCI).
3. K. Poonkodi, K. Vimala devi, M. Rubini, R. Priyadharshini and S. vinitha. Evaluation of invitro anticancer and anti inflammatory potential of *Mitracarpus villosus* (Sw) DC. Int.J. Pharm., 2017, 7(2). (Scopus).
4. K.Poonkodi, R. Anitha, S. Vasanthamani, J. Karthika and V. Tamilselvi. Evaluation Of Invitro Cytotoxicity Of Essential Oil From *Clausena dentata* (Willd) Grown In Western Ghats Region- South India, Asian J.Chem., 2017, 29(7). (Scopus).
5. K.Poonkodi and S.Ravi. Isolation of Phytoconstituents of petroleum ether extract of leaves of *Richardia scabra* Linn (Rubiaceae), Indo American journal of Pharmaceutical and research.2014, May (5), 2514-2518. Impact factor (0.85, Scope med).

RESEARCH PUBLICATIONS

6. K.Poonkodi. Chemical composition of essential oil of *Ocimum basilicum* L. (basil) and its biological activities—an overview. *Journal of Critical Reviews*, 2016;3 (3),56-62.
7. K.Poonkodi. Phytoconstituents from *Richardia scabra* L. And its biological activities. *Asian J Pharm Clin Res*, 2016; 9(6), 168-171, (Scopus).
8. K.Poonkodi, S.Vidhya baranika, G.Pryanka, PU. Meha and R.Jeevitha. Chemical Composition and Anti-Inflammatory Potential of Essential Oil of *Alpinia calcarata* ROSC. - grown in South India. *Int. J. Pharm. Sci. Rev. Res.*, 2017; 42(1), 207-210. (Scopus).
9. K.Poonkodi, K. Gomathi, M.Akila, S.Deepadevi and A. Dhivya. Gas chromatography-mass spectrometry analysis and in vitro antioxidant activities of *Ruta graveolens* L. From Western ghats region - South India. *Asian J Pharm Clin Res*, 2017,Vol 10(5), 297-301. (Scopus).
10. K.Poonkodi, V. Jayapriya, K. Sujitha, R. Jeevitha and PU. Megha. In-vitro Anticancer Activity and Essential oil Composition of *Tridax procumbens* (L.), *Am.J.Pharm Tech Res.*,2017, 7(2).
11. K. Poonkodi, J.Karthika, V. Tamilselvi, R. Anitha and S.Vasanthamani. Chemical composition of essential oil of *Hyptis suaveolens* (L.) POITand its invitro anticancer activity. *J Pharm Res.*, 2017,11 (5),410–413.
12. K.Poonkodi, K.Vimaldevi and R.Mini, Chemical Composition and In vitro Antimicrobial, Anti-MRSA Activities of Essential Oil of *Clerodendrum inerme* (L.) Gaertn- grown in Western Ghats Region. *Int. Chemtech research.*,2017, 10(8). (Scopus).
13. K.Poonkodi. Medicinal plants are boon to future, *Kalanjium*, Sep2017.
14. Velliangiri Prabhu, K. Poonkodi, R. Mini, K.Vimala Devi & M. Karthigai Priya, GC-MS analysis of bioactive compounds present in the petroleum ether, chloroform and methanol extract of *Ixora coccinea*'s flower and in-vitro cytotoxic activity of methanolic extract against DLA and EAC cancer cell lines. *International Journal of Research and Analytical Reviews*, 5(4); 2018, 801-807.
15. Saranya. K. S., Karthigai Priya. M and Poonkodi. K, Chemical composition of ethanol extract of *Diosypros montana roxberg* leaves and its biological activites. *American International Journal of Research in Science, Technology,Engineering & Mathematics*, 2019,165-167.
16. Karthigai Priya M, Saranya. K. S and Poonkodi. K, Evaluation of phytoconstituents of *Feronia limonia* and its in vitro cytotoxicity. *American International Journal of Research in Science, Technology,Engineering & Mathematics*, 2019,170-174.

RESEARCH PUBLICATIONS

17. Poonkodi, K., R. Mini, K. Vimaladevi, V. Prabhu, M. Anusuya, M. Karthigai priya and K.S. Saranya. In Vitro Cytotoxicity Potential Of Ethanol Extract Of Syzygium Samarangense (Wt.), Kong. Res. J. 6(1): 29-31, 2019.
18. Poonkodi, K., Vimaladevi, K., Suganthi, M and Gayathri, N. Essential Oil Composition and Biological Activities of Aegle marmelos (L.) Correa Grown in Western Ghats Region-South India, Journal of essential oil bearing plants, Volume 22(4), 2019 .
19. Poonkodi, K., Logamadevi, A Suganthi, M and Divya, A. Chemical Composition of Essential oil of Zingiber zerumbet (L.) Simth and its Biological activities. Research Journal of Chemistry and Environment.(press).
20. Poonkodi, K., Bhavadharini, D.and Raj kumar R. Performance Study of Micro Porous Adsorbent from Aegle Marmelos Fruit Shell on Malachite Green Removal, Indian Journal of Environmental Protection (in press).
21. Jayanthi E, Anusuya M, Nagaveni A, M. Poonkodi K.Cobalt Oxide Nano Particles Synthesized From Metal Complex By Thermal Decomposition Method - A Short Review, Materials Today Proceedings (Press).
22. Poonkodi.K. Synthesis and characterization of Graphene oxide and its photocatalytic activity, Materials Today Proceedings (press).

CONFERENCE PAPER PUBLICATIONS

1. Poonkodi K. and Ravi.S, Health implication of nanoparticles. National conference on Green technology proceedings. Karpagam University, Coimbatore. 2010.
2. Poonkodi K. and Alarmal Mangai S. Corrosion inhibition of imidasole on mild steel, International conference on Green Chemistry and sustainable environment, proceedings, Holy Cross College, Trichy, 2010.
3. Poonkodi, K. Green Chemistry and the health implications of nanoparticles, national level conference on Green Technology, NGM College, 2010.
4. Poonkodi, K. and Ravi, S. In vitro anticancer activity of some medicinal plants, National conference on Drug Discovery from Medicinal and Aromatic Plants proceedings, Karpagam University, 2017.
5. Poonkodi, K. A review on decolourisation of dyes by photo degradation using various metal/GO/RGO Nanocomposites, National Conference on recent innovations in greener Nanotechnology, proceedings, NGM College, Pollachi. 2017.

CONFERENCE PAPER PUBLICATIONS

9. M. Karthigai Priya, K. S. Saranya, P.U. Megha, E. Kanimozhi, B.Pravya, K.Pandidhurai, S. Aproz Banu and K. Poonkodi Essential oil composition of *Cinnamomum Zeylanicum* Blume (L.) leaves and its biological activity, SERB, Govt. of India and Indian Science Congress Association Sponsored International Conference on 'IMPACT OF INNOVATIONS IN SCIENCE AND TECHNOLOGY FOR SOCIETAL DEVELOPMENT, Kongu Nadu Arts and Science College, Coimbatore, 19 - 21, September 2019.
10. K. Poonkodi and Kanimozhi E, Recent Advances in electrochemical sensors- An updated review, TNSCST Sponsored "National seminar on recent trends in Chemistry", Arulmigu Palaniandavar College of Arts & Science, Palani on 23, 24th January 2020.
11. Poonkodi K, Pravya B, Pandidhurai K and Kanimozhi E, and Aproz Banu K. Photophysical Properties of Anthracene Incorporated Silica Nanoparticles, TNSCST Sponsored "National Conference in Green Chemistry and its Applications" Sri Ramakrishna College Of Arts & Science, Coimbatore, 30th January 2020.
12. POONKODI K, ATHIRA. S, AKSHAYA, V. SAJANA. M.S. and SUBHAHARINI, Interesting morphology of La doped Cu_2O and Na doped Cu_2O synthesized via thermal decomposition TNSCST Sponsored "National Conference on Role of Phytochemicals and Advanced materials for cancer prevention and research, NGM College, Pollachi 26th and 27th february 2020.
13. Karthigaipriya, M. Saranya K.S, and Poonkodi, K. Phytochemical and pharmacological activities of *Eupatorium adenophorum* SPRENG- a review, TNSCST Sponsored "National Conference on Role of Phytochemicals and Advanced materials for cancer prevention and research, NGM College, Pollachi 26th and 27th february 2020
14. Poonkodi, K., Sathiyabama, M.V. and Vijayakumar.S. Plagiarism-Pros and Cons, ICSSR sponsored National Conference on Digital Scholarship, Central university of Tamilnadu, Thiruvavur, 12th and 13th March 2020.
15. Poonkodi, K., and Sathiyabama, M.V. Awareness of socialmedia among Rural area Librarians, ICSSR sponsored National Conference on Digital Scholarship, Central university of Tamilnadu, Thiruvavur, 12th and 13th March 2020.
16. Poonkodi, K., Novel Synthesis of Rice Flakes Like BiVO_4/RGO - BiVO_4 With Superior Photocatalytic Activity Toward Dye Removal, International virtual Conference on "Progress and Promises in Chemical Sciences" Christ Deemed University, Bangaluru, February 15th to March 15th, 2020.
17. K. Poonkodi, and K. Pandidhurai, Studies on the adsorptive removal of malachite green dye by green activated carbon from bombax ceiba (L.) Fruit hull. Two days national conference on Recent trends in phytochemical, Nano and battery research in chemistry, 12th and 13th March 2020, Karpagam University, Coimbatore.