

Resume



Name : Dr. (Mrs.) K.Poonkodi
Assistant Professor & Head
PG Department of Chemistry
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Educational Qualification: MSc,M.Phil.,PhD

Specialisation : Organic Chemistry, Phytochemistry, Environmental Chemistry, Nanochemistry and Essential oils.

Working Experience

Under graduate and Post Graduate Level : 13 Years 6 Months

Research Experience (9 Years)

- 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.**

Reviewer of Journals

- ✚Journal of Essential Oil Bearing Plants (**Taylor& Francis**)- **UK**
- ✚Journal of Biologically Active Products from Nature (**Taylor& Francis**)- **UK**
- ✚Journals from Bentham Science -**Netherlands**
- ✚International Journal of Pharmaceutical Research and Bio-Science- **India**
- ✚Science Domain International-**India, USA and UK**
- ✚Journals from Academic Sciences-**India** (Since 2015)

Workshops/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 an **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 an **Guest Lecture** on "Magnetic Nanomaterials for Cancer Drug Targeting", conducted by the PG department of chemistry 12th September 2018 (Wednesday) at NGM College, Pollachi.

Academic Activities

✚ No of M.Sc Project guided	: 26 , Ongoing-05
✚ No of Articles Published in International/ National Journals	: 13
✚ No of Paper presented in Conferences/seminars	: 8
✚ No of Programmes as Resource Person	: 01
✚ No of conferences/ seminars Attended	: 10
✚ Examiner & Question Paper Setter	: Karpagam University, Coimbatore, Government Arts College, Salem, Rathinam College of Arts &Science and SNR College of arts and Science College, Coimbatore.

Coordinator

- ✚ **Serving as a coordinator for Quiz Club in NGM College, Pollachi.**

Workshops/Conferences/ Seminars Attended

S.No	Name of the Seminar/ Conference/ Symposia Workshop, etc.	Name of the Sponsoring Agency	Place and Date
1	Seminar: Exhibition on herbal resources & Remedies.	NGM College, Pollachi	Department of Botany, NGM College, 3 rd September 2009.
2	Seminar: recent trends in Physical Sciences	Department of Physics & Chemistry	Vivekanandha College of Arts & Sciences For Women, 22 nd January 2010.
3	Conference: Green Technology	UGC, New Delhi.	Department of Chemistry, NGM College, Pollachi, 18 th & 19 th February 2010.
4	International Conference: Green Chemistry and Sustainable Environment	Holy Cross College	Department of Chemistry, Trichy, 7 th & 8 th July 2010.
5	Seminar: Phytochemical: Their role in disease prevention and health promotion.	ICMR, New Delhi.	Department of Food Technology, Kongu Engineering College, Perundurai on 17 th September 2010.
6	Seminar: "Empowering the Youth to Enrich Mankind"	NGM College, Pollachi	NGM College, Pollachi, 29 th January 2016
7	Workshop: "Recent Trends in Spectroscopy & Polymer Chemistry."	Arulmigu Palaniandavar Arts College for women, Palani.	Department of Chemistry, Arulmigu Palaniandavar Arts College for women, Palani, 8 th January 2016.
8	Conference: Drug Discovery from Medicinal and Aromatic Plants.	Department of Chemistry	Karpagam Academy of Higher Education, Coimbatore, 2 nd & 3 rd February 2017
9	Training cum workshop: "Basic Techniques in Botany"	NGM College, Pollachi	PG Department of Botany, 15 th March 2017.
10	Workshop: "Inservice Training Programme for Secondary Grade Science Teachers"	Tamilnadu State Council for Science & Technology, DOTE Campus, Chennai.	PG & Research Department of Physics, NGM College, Pollachi 28 August 2017
11	International Seminar: The Success of Modern Life lies in Harmony with Nature	Department of Human Excellence	NGM College, Pollachi, 21 st September 2017.
12	Symposium: Health, Fitness and Wellness	Department of Physical Education	NGM College, Pollachi, 1 st November 2017.
13	National Workshop: "Nanomaterials and Nanochemistry"	Royal Society of Chemistry, South India Local Section.	PG and Research Department of Chemistry, PSGR Krishnammal College for Women, CBE. 22 nd December 2017
14	Workshop: "Microscale Experiments in Chemistry"	PG Department of Chemistry, NGM College, Pollachi	PG Department of Chemistry, NGM College (Autonomous), Pollachi, 9 th January 2018.

15	National Workshop: "Recent Trends in Chemistry"	IAS Bangalore, INSA New Delhi, NASI Allahabad	Department of Chemistry, NGM College (Autonomous), Pollachi, 11 th and 12 th January 2018.
16	National Seminar "Applications of Nano materials in Agricultural and crop protection."	CSIR, New Delhi.	PA College of Engineering and Technology, Pollachi, Coimbatore on 14 th and 15 th September 2017.
17	National Seminar: "Applications of Carbon based Nanomaterials for Environmental Sustainability"	CSIR, New Delhi.	PA College of Engineering and Technology, Pollachi, 12 th and 13 th April 2018
18.	International Symposium "Trends in solar cell research"	Indian Science Congress association, Kotkatta.	Kongunadu Arts & Science College, Coimbatore.
19.	National seminar Recent advances in crystal growth for Nanophotonics and non-linear optics	CSIR-sponsored, New Delhi	Nehru Institute of Engineering & Technology, Coimbatore. 24 th November 2018.

Guideship

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

Resource Person

- ✚ Guest lecture on "Chemistry of Plants", Shri Nehru Maha Vidyalaya College of Arts and Science, Coimbatore on 18.10.2016.
- ✚ Chair person for Paper Presentation in the State level Seminar on Corrosion Management in Daily Life-18th August 2017.

Scholarship

Selected for summer training programme conducted by Indira Gandhi Centre for Atomic Research, Kalpakkam, Chennai, during my Pre final Post graduate programme from 25/05/1999 to 02/07/2000.

Books published-03

- ✚ Edited book on "Recent Innovations in Greener Nanotechnology" (**ISBN number 9788193388266**).
- ✚ **Uzhavu Bharatham-** Velaan valamum vazhavum-paper-I & Uzhavar earrame uzahvin menmai- II (**ISBN Number-978-93-87009**)

Research Publications

International Refereed Journals

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**).

National Refereed Journals

1. **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**).
2. **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**).
3. **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.
4. **K.Poonkodi**. Phytoconstituents from *Richardia scabra* L. And its biological activities. **Asian J Pharm Clin Res**, 2016; 9(6), 168-171, (**Scopus**).
5. **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**).
6. **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**).
7. **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).
8. **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.
9. **K.Poonkodi**, K.Vimaladevi 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**).
10. **K.Poonkodi**. Medicinal plants are boon to future, Kalanjium, Sep2017.