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ABOUT MYSELF

Dr. P.Selvakumar, Assistant Professor of Chemistry, obtained his Doctorate(Ph.D.) from Anna University, Chennai and has more than 14 years of teaching and research experience. His area of research interests are Bio-materials, Nanomaterials, Photo-catalytic and biological studies such as antibacterial, cytotoxic, catechol oxidase, and phosphatase-like activity. He has 10 research papers in SCI and SCOPUS indexed journals. He has attended various conferences, seminars and presented papers at national and international levels. He is a recognized supervisor of Anna university, Chennai and reviewer for the Journal of Materials Research (Springer Nature).

ACADEMIC QUALIFICATION

- ❖ **B.Sc (Chemistry)** from Erode Arts & Science college, Erode, Tamil Nadu, India (2002 - 2005)
- ❖ **M.Sc (Chemistry)** from CBM Arts & Science college, Coimbatore, Tamil Nadu, India (2005 - 2007)
- ❖ **Ph.D (Chemistry)** from Coimbatore Institute of Technology, Coimbatore, Tamil Nadu, India (2011 - 2017)

PROFESSIONAL EXPERIENCE

- ❖ **Mar 2021-Till date:** Assistant Professor, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, Telangana
- ❖ **Apr 2021-Jun 2022:** Associate Professor, Erode Sengunthar Engineering College (Autonomous), Tamilnadu.
- ❖ **Jan 2020-Apr 2021:** Associate Professor, Vivekanandha College of Arts & Sciences for Women (Autonomous), Tamilnadu.
- ❖ **Jan 2012- Apr 2019:** Assistant Professor, SVS College of Engineering, Tamilnadu.
- ❖ **Aug 2007-Dec 2011:** Lecturer, Maharaja Prithvi Engineering College, Tamilnadu.

ADMINISTRATIVE EXPERIENCE

- ❖ PG Project Guide, Vivekanandha College of Arts and Sciences for Women, Tamilnadu (2020-2021)
- ❖ Lab I/C, Organic Chemistry Laboratory, SVSCE, Tamilnadu (2016-2017)
- ❖ Subject Coordinator, SVSCE, Tamilnadu (Jul 2013- Dec 2016)
- ❖ Lab I/C, Engineering Chemistry Laboratory, MPEC, Tamilnadu (2007-2011)

COURSES TAUGHT

- ❖ Engineering Chemistry I & II
- ❖ Applied chemistry
- ❖ Environmental Science & Engineering
- ❖ Industrial Chemical Technology
- ❖ Physical Chemistry
- ❖ Organic Chemistry
- ❖ Physical Chemistry lab
- ❖ Organic chemistry lab
- ❖ Chemistry for Technologists
- ❖ Chemical analysis lab

COMMITTEE WORK

- ❖ NAAC Committee member, GRIET, Hyderabad (2023)
- ❖ Discipline Committee member, GRIET, Hyderabad (2023)
- ❖ NBA/NAAC Department Coordinator in SVS College of Engineering, Tamilnadu (2017-2019).

PUBLICATIONS

International

- ❖ Kuppusamy Vellingiri, S.K., Manoharan, D., **Selvakumar Ponnusamy**, Uvanshankar Kettimuthu Ramadass & Vishal Dhanabalaselvan, Assessment of welding fume impacts in a confined workplace by two extraction patterns — a case study of small-scale manufacturing industries. *Environ Sci Pollut Res.* 30, 10037–10051, 2023. (SCI & SCOPUS Indexed) IF = 5.19
- ❖ Mahalakshmi, R., Saravanan, R., **Selvakumar, P.**, Karthikeyan, M.S. and Ravikumar, L., Polymeric Substitution of Triazole Moieties in Cellulosic Schiff Base for Heavy Metal Complexation Studies. *Journal of Polymers and the Environment*, 30, pages 360–372, 2022. (SCI & SCOPUS Indexed) IF = 4.70
- ❖ Chemically modified Cellulose capped Zinc Oxide nanocomposite, R Jagadeeswari, **P Selvakumar**, V. Jeevanantham & R. Saravavnan, *Archives of Metallurgy & Materials*

66(3), 911-915, 2021. (SCI & SCOPUS Indexed) IF = 0.63

- ❖ Investigation on the effect of technological parameters on emission factor in 316L stainless steel using gas metal arc welding, K.V. Satheeskumar, **P. Selvakumar**, K. R. Uvanshankar, S. Thirunavukarasu, V. Vijayanand, D. Vishal, Archives of Metallurgy and Materials, 66(2), 609-615, 2021. (SCI & SCOPUS Indexed) IF = 0.63
- ❖ Catechol Oxidase, Phosphatase-Like Activity, DNA/BSA Binding Studies of RuII Complexes of S-Allyldithiocarbazate: Synthesis and Spectral Studies, **Ponnusamy Selvakumar**, Ramaswamy Narayanasamy, Nanjan Nanjundan, Krishnaswamy Velmurugan and Raju Nandhakumar, J. Braz. Chem. Soc., Vol. 28, No. 8, 1414-1429, 2017. (SCI & SCOPUS Indexed) IF = 1.2
- ❖ Ru(II) Functionalized with S-allyldithiocarbazate: Synthesis and Spectral Studies, Bimolecular Interaction (DNA/BSA), Catechol Oxidase, Phosphatase-like Properties, **Selvakumar Ponnusamy**, Narayanasamy Ramaswamy, Nanjundan Nanjan, Asian Journal of Research in Social Sciences and Humanities Vol. 6, (11), 744-759, 2016.
- ❖ Synthesis, structure, DNA/BSA interaction and in vitro cytotoxic activity of nickel (II) complexes derived from S-allyldithiocarbazate, N Nanjundan, **P Selvakumar**, R Narayanasamy, RA Haque, Journal of Photochemistry and Photobiology B: Biology 141, 176-185, 2014. (SCI & SCOPUS Indexed) IF = 6.814

National

- ❖ Sampling and analyzing of Dissolved Oxygen in Water samples collected at Sundarapuram in Coimbatore District, Senthil Kumar, K and **Selvakumar, P**, Journal of Advances in Chemistry, 13(6), 6280-6284, 2016.

CONFERENCE PUBLICATIONS

International

- ❖ Stress Analysis of Riveted and bolted Joints using Analytical and Experimental Approach, KV Satheeskumar & **P Selvakumar**, Materials Today Proceedings 42, pp.1091-1099, 2021. (SCOPUS Indexed)
- ❖ Rice husk modified cement strength-An environmental approach, J. Sathish and **P. Selvakumar**, J. Environ. Biol., Vol.40, 807-811, 2019. (SCIE Indexed) IF = 0.56
- ❖ In vitro cytotoxicity and antibacterial studies of Ruthenium (II) DMSO complexes with Sallyldithiocarbazate, **Selvakumar Ponnusamy**; Narayanasamy Ramasamy, Int. J. of

Materials and Product Technology, 55, 142 – 155, 2017. (SCIE & SCOPUS Indexed)
IF = 0.81

CONFERENCES/SEMINARS

- ❖ Presented paper entitled “**Adsorption of aqueous Cu(II) and Pb(II) ions using NiO nanoparticle derived from Urtica dioica plant extract**” in **ConCPM-2021** at Kongu Engineering College, on Apr 2021.
- ❖ Presented paper entitled “**Stress Analysis of Riveted and bolted Joints using Analytical and Experimental Approach**” in **ICRAMM-2020** at Vellalar College of Engineering & Technology, on Nov 2020.
- ❖ Presented paper entitled “**Chemically modified Cellulose capped Zinc Oxide nanocomposite**” in **ICMMM-2.0** at Bannari Amman Institute of Technology, on Oct 2020.
- ❖ Presented paper entitled “**In vitro cytotoxicity and antibacterial studies of ruthenium (II) DMSO complexes with S-allyldithiocarbazate**” at Arunai Engineering College, Thiruvanamalai on March 2016.
- ❖ Presented paper entitled “**Ameliorating the phytate-degrading phytase production using an isolated *Bacillus* sp. from agricultural fields**” at Vel Tech High Tech Dr Rangarajan Dr.Sakunthala Engineering College, on Aug 2015.

SEMINAR/WORKSHOP/FDP Participation

- ❖ Attended webinar on “**Recent advances of Nanotechnology in chemical and biomedical fields**” at KPR Institute of Technology on May 2020.
- ❖ Attended the Science Academies Lecture workshop on “**Insights in Life sciences**” at Bharathiar University Jan 2018.
- ❖ Participated in One day workshop on “**The Art of writing Winnable Project Proposal for Funding**” conducted at SVS College of Engineering on Dec 2017.
- ❖ Participated in One day workshop on “**Intellectual Property Rights**” conducted by Intellectual Property rights Cell in SVS College of Engineering on Nov 2017.
- ❖ Participated in Faculty Development Programme on “**Treating Learning Difficulties**” at SVS College of Engineering.
- ❖ Attended a National conference on “**Recent Advances in Science and Engineering Research**” at Arunai Engineering College, Thiruvanamalai on March 2016.
- ❖ Attended Three days International conference on “**Energy, Environment and Engineering**” at Coimbatore Institute of Technology on March 2016.
- ❖ Attended an International seminar on “**Novel Approaches in Chemistry and its Environmental Impacts**” at KPR Institute of Technology on Nov 2015.

- ❖ Attended conference on “**Recent trends in Biochemical Engineering**” at Vel Tech High Tech Dr Rangarajan Dr. Sakunthala Engineering College, on Aug 2015.
- ❖ Attended a State Level Seminar on “**Chemistry and Society**” at Kongu Engineering College in the year 2012.
- ❖ Attended a TNSCST Sponsored State Level Symposium on “**Resources Extraction and Energy Consumption**” at Kongu Engineering College in the year 2010.
- ❖ Attended a National Seminar on “**Nano Technology in Engineering and Medicine A New Mile Stone**” at Institute of Road and Transport Technology on Aug 2009.
- ❖ Attended a National seminar on “**Technical Teachers Quality Improvement**” Sathyabama University, Chennai, May 2009.

PROGRAM ORGANISED

- ❖ Organised Guest lecture in “**Environment, Ecology and Pollution**” by **Dr.M.Anilkumar, Scientist, CSIR, Gujarat.**
- ❖ Organised Guest lecture in “**Alkynes & Alkadienes**” by **Dr.S.Sathiyaraj, Head/Chemistry, Dr.NGP Arts & Science, Coimbatore.**
- ❖ Organised Seminar in “**Nanomaterials- A Leeway to future Research in Chemistry**” by **Dr.P.Siva, Faculty of Engineering, Chulalongkorn University , Bangkok.**
- ❖ Organised Guest lecture in “**Sulpha Drugs**” by **Dr.M.Vinolia Thamilarasi, AP(Sr.Gr)/Chemistry, KPR Institute Engineering Technology, Coimbatore.**

RECOGNITION AND INVITED TALKS

- ❖ Recognized Supervisor (Ref. No.: 3170033), Anna University, Chennai
- ❖ Chaired person- International Conference on Materials Science and Manufacturing Technology 2021, Coimbatore on 15th-16th Apr 2021.
- ❖ Organizing member in the one-day Virtual workshop on Electrochemical Energy Storage Systems (18.03.2021), Vivekanandha College of Arts and Sciences for women, Tamilnadu, India.
- ❖ Acted as resource person for an invited talk on “**Scope of Science in Engineering & Technology**” at Nehru Institute of Engineering and technology Chennai on 02nd Nov 2020.
- ❖ Guest lecture -Spectroscopy organized by PG Department of Chemistry Vivekanandha College of Arts & Sciences for women Tiruchengode on 20 Nov 2021.

MEMBERSHIP

- ❖ Life Member, IAENG