

CURRICULUM VITAE



Dr. P. THILLAI ARASU
PROFESSOR & HEAD
Department of Chemistry
Kalasalingam University
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Age & Date of Birth : 50 & 13.04.1964

Nationality : INDIAN

Martial Status : Married

Educational Qualification

Doctor of Philosophy (Ph.D) in Bio Inorganic Chemistry Manonmaniam Sundaranar University, India, June 1996

Title of the Ph.D. Thesis

Complexometric Studies on Some Copper(II) and Nickel(II) Ternary Complexes of Biological Significance

Master of Science (M.Sc) in Chemistry, Annamalai University, India, June 1988 (University Rank Holder).

Bachelor of Science (B.Sc) in Chemistry, Sadakathullah Appa college,(Madurai Kamaraj University) Palayamkottai, India, June 1985. (First Rank in College)

Diploma in Chemical Process Instrumentation and Control (DCPIC) , Annamalai University, India May 1990

S. No	NAME OF EMPLOYER	DESIGNATION	PERIOD FROM TO
1	Kalasalingam University Anand Nagar, Krishnana koil Srivilliputhur 626 190 Tamil Nadu INDIA	PROFESSOR &HEAD	11 TH June 2011 to Till date
2	Kalasalingam University Anand Nagar, Krishnana koil Srivilliputhur 626 190 Tamil Nadu INDIA	PROFESSOR	1 ST July 2010 to 10 th June 2011
3	Kalasalingam University Anand Nagar, Krishnana koil Srivilliputhur 626 190 Tamil Nadu INDIA	ASSOCIATE PROFESSOR	2 nd June 2008 to 30 TH June 2010
4	Eritrea Institute of Technology (Under Ministry of Education) Mai-Nefhi, Asmara ERITREA, NORTH EAST AFRICA	ASSOCIATE PROFESSOR	9 TH February 2006 to 26 January 2008
5	Dr.Sivanthi Aditanar College of Engineering , Tiruchendur. Tamil Nadu , INDIA	ASSISTANT PROFESSOR And HEAD	December 1998 To January 2006
6	Dr. MGR Engineering College Chennai, Tamil Nadu, INDIA	LECTURER	June 1994 to November 1998

Research Experience

- From March 1993 to February 1994 worked as a **CSIR Senior Research Fellow (SRF)** in Department of Chemistry, M.S.University , Tirunelveli. India
- From February 1989 to February 1993 Worked as a **University Stipendiary Research Fellow(USRF)** in Department of Chemistry, M K University PG Extension Center & M.S. University at Palayamkottai. India

Brief Outline of my research project

Synthesis and Stability constants of metal complexes of some first row transitional metal ions with amino acids, peptides, amines, proteins etc., have been investigated by potentiometric pH metric and UV-Visible Spectrophotometric methods in biological relevant conditions. He synthesized and characterized some biologically important transition metal complexes which have been analyzed with the help of UV-Visible spectrophotometry, FT-IR, NMR & ESR spectroscopy All

the calculations were made with the aid of MINQUAD-75, SCOGS & AUTO PLOT Computer programmes in a CYBER 180/830A & PENTIUM IV computers. Now my present research work deals with the Impact on water pollution and public health.

No. of Project Submitted: 7

S.No	Title of the Project	Funding Agency	Date of submission	PI/Co-PI	Status
1	Tribological behavior of surface functionalized Molybdenum Sulphide Nanaoparticles – a novel type of Additives in Lubricating Oil	CSIR		Principle Investigator	
2	Development of a New Nano Hybrid Material for Defluoridation of & Effluent Water	MOEF under EnvRP		Principle Investigator	Under Progress
3	Industrial Waste water Treatment Using Encapsulated Nano Iron Oxide(Fe_3O_4)	DST -SERC	28.04.2014	Co-Investigator	Under Progress
4	Assessment of Physico-Chemical Parameters of ground water in and around Sivakasi Taulk of Virudhunagar Dist. Tamil Nadu	MOEF under EnvRP	29.05.2014	Co-Investigator	Under Progress
5	Study on CCP Monitoring, corrective actions and verifications in a food organization and propose improvement.	School of Agriculture , IGNOU, New Delhi	30.4.2014	Principle Investigator	Under Progress
6.	Study on adopt and implement the HACCP system, CCP Monitoring corrective actions and verifications in Wheat Milling food organization	School of Agriculture , IGNOU, New Delhi	09.05.2014	Principle Investigator	Under Progress
7.	Experimental Investigations on the effect of Strut Injection in Kerosene fueled Supersonic Combustors	MOEF under EnvRP	20.10.2013	Co-Investigator	Under Progress

Ph.D. Guidship Approval:

The Syndicates of **Anna University**, Chennai, India,
Manonmaniam Sundaranar University, Tirunelveli, India
Bharathiyar University, Coimbatore, India and
Kalsalingam University, Krishnankoil
has approved as a **Ph.D. Research Supervisor** to guide Ph.D. Students.

Bharathidasan University also approved as a Research Supervisor to guide M.Phil. Students.

No. of Ph.D. Scholar : **9**

Program	On Going	Guided	Title
Ph.D	8	1	Bioinorganic chemistry – Adsorption and Environmental studies – Pharmaceutical chemistry
M.Phil	---	8	1. Ground Water Chemistry and Public Health Status in and around SIPCOT, Tuticorin, Tamil Nadu, India 2. Study on the quality of water in the Tamiraparani River 3. Atomic Absorption Spectrophotometric studies on Heavy Metal Contamination in Tiruchendur 4. Studies on the Fortnightly Variation of Physico Chemical characters of Pond Water in Tirunelveli Town 5. Status of Ground Water Contamination in Tirunelveli Town, Tamil Nadu 6. Hydrochemistry of Ground water in Palayamkottai Taluk 7. Study on the Physico Chemical parameters of Ground Water in Sathankulam Taluk, Tuticorin District 8. Study on the post Tsunami impact on sea water intrusion in Tuticorin Coastal Area

Membership in Scientific Associations

1. Life member in Indian Council of Chemists (LF/ 667) (FICC)
2. Life member in Indian Society for Technical Education (LM/27684) (MISTE)
3. Fellow member in Indian Chemical Society (F/3356) (FICS)
4. Fellow member in Journal of Chemistry and Environment (A/B/P 1191)

Academic & other Activities in Kalsalingam University since June 2008

1. Head of the Department /Chemistry (June2011- till date)
2. First year Coordinator (2011-2014)
3. Chairman , Department Research Committee(June2011- till date)
4. Chairman, Board of Studies(June2011- till date)

5. Member, Standing Committee(June2011- till date)
6. Member, Academic Council (June2011- till date)
7. Admission Officer – KLU Admissions (Jan 2010- Aug 2013)

RESEARCH PUBLICATIONS

Total No. of Publications	: 66
Journal Publications	: 51
Conference Proceedings	: 14
Conferences	: 86
Workshops/ Seminar	: 29
Guest Lecture	: 9
<i>M.Phil Students Guided</i>	: 8

Medal and Ranks

1. In M.Sc. Annamalai University Winner for Thiru A.Natarajan **GOLD** Medal
2. In M.Sc. Annamalai University **THIRD** Rank
3. In B.Sc. Sadakathullah Appa College **FIRST** Rank in Chemistry Major
4. In B.Sc. Sadakathullah Appa College **SECOND** Rank in Physics & Maths Ancil.

BOOKS PUBLISHED : (12) Twelve

Editor

Proceeding of the International Conference on Advanced Materials and its Applications, (ICAMA-2011), McMillan Publication, NewDelhi 2011

Editorial Board Members

1. International Journal of Pharmacy and Pharmaceutical Sciences
(<http://www.ijppsjournal.com/join%20the%20editorial%20board.htm>)
2. Chemical Science Transactions (<http://www.e-journals.in/editorialboard.asp>)
3. Innovare Journal of Education
(<http://innovareacademics.in/journals/index.php/ijoe/pages/view/editorial-board>)

Author

1. *Applied Chemistry , Annai Publications, (2001) Chennai.*
2. *Engineering Chemistry , Pratheeba Publications, (2002)Coimbatore.*
3. *Chemistry Laboratory Manual , JTN Publications, (2001) Palai.*
4. *Engineering Chemistry, JTN Publications, (2003) Palai.*
5. *Chemistry Practical Manual, JTN Publication (2003) Palai.*
6. *Engineering Chemistry, JTN Publications, (2004) Palai.*
7. *Chemistry Practical Manual, JTN Publication (2004) Palai*
8. *Engineering Chemistry, JTN Publications, (2005) Palai.*
9. *Chemistry Practical Manual, SACOE Publication (2005) Palai*
10. *Engineering Chemistry, JTN Publications, (2006), Palai*
11. *Engineering Chemistry JTN Publication (2007) Palai*

Board of Studies

1. Member, board of Studies, KLU from June 2008 –May 2011
2. Chairman, Board of Studies, KLU since June 2011
3. Member, Board of Studies , Sadakathullah Appa College Palayamkottai since 2011
4. Member, Board of Studies, PSR Engineering College, Sivakasi since 2014

Board of Examiner from April 2000:

1. Anna University, Chennai, M. S. University, Tirunelveli and Madurai Kamaraj University, Madurai
2. Annamalai University, Annamalai Nagar (M.Phil. Examiner)
3. Barathidasan University, Trichy (M.Phil. Examiner)
4. Thiruvalluvar University, Vellore (Ph.D. Examiner)
5. College of Science, EIT, Mai-Nefhi,Eritrea
6. Kalasalingam University, Krishnankoil
7. Examiner NI University, kumarakoil for B.E. / B.Tech
8. Examiner Annamalai University for B.E. / B.Tech
9. Question Paper setter for Anna University of Technology, Coimbatore, Sona College of Technology, Salem
Sadakathullah Appa College Palayamkottai
Norul Isalm University , kumar koil,
Mepco-Schelenk Engineering College, Sivkasi

ANNEXURE I

LIST OF PUBLICATIONS
INTERNATIONAL & NATIONAL JOURNALS

2014

1. "Adsorption Efficiency of Synthetic Nano Iron Oxide And Commercial Activated Carbon Towards the Removal of Co(II) ions" , G. Kanthimathi, P. Kotteswaran, **P. Thillai Arasu**, M.Kottaisamy *Chem Sci Trans* 2014, 3(1), 431-437. (IF 0.45, SCOPUS)
2. "Antimicrobial Activity In Selected Indian Medicinal Plant Extracts Using Disc Diffusion Method", C.Rathanavel, J.Sumitha and **P.Thillai Arasu** *Int J Pharm Bio Sci* 2014 5(1) 656 - 661 (IF 0.67, SCOPUS)
3. Evaluation Of Anti Pyretic Activity Of Aerial Parts Of *Phyllanthus Longiflorus Heyne Ex Hook*" M. Jesupillai, **P.Thillai Arasu**, P.Bharathi Dhasan, S.Jasemine, M. Palanivelu, *Asian Journal of Pharmaceutical and Clinical Research* 2014, 7(1),209-210 (Impact- 0.7, SCOPUS)
4. "Atomic Absorption Spectrophotometric Studies On Heavy Metal Contamination In Ground Water In And Around Tiruchendur Tamil Nadu, India "" **Ponnusamy Thillai Arasu**, Arumugam Murugan and Jeslin Kanaga Inba *Chem Sci Trans* 2014, 3(2) 812-818 (IF 0.45, SCOPUS)
5. Evaluation Of Anti Inflammatory Activity Of *Phyllanthus Longiflorus* In Experimental Animal Models M. Jesupillai And **P.Thillai Arasu** *Int J Pharm Bio Sci* 2014 5(1), 691 – 695
6. Estimation Of Minerals And Heavy Metals On Aerial Parts Of *Phyllanthus Longiflorus* M Jesupillai, And **P Thillai Arasu**. *Asian Journal of Pharmaceutical and Clinical Research* 2014, 7(2),52-53 (Impact- 0.7, SCOPUS)
7. Inhibition Of Corrosion Of Aluminium In Alkaline Medium By Poly(Vinyl Alcohol) (PVA) R. Kalaivani, **P. Thillai Arasu** and S. Rajendran *Eur. Chem. Bull.*, 2014, 3(4), 407-411

2013

8. "Designing, structural, redox and biological investigation of copper(II), nickel(II), cobalt(II), Zinc(II) and vanadium(IV) complexes derived from 1-phenyl-2,3- dimethyl-4-imino-(3-oxo-N-phenylbutamide)-pyrazol-5-(a-imino)-indole-3-propionicacid" Thavuduraj Kavitha, Antonysamy Kulandaisamyand **Ponnusamy Thillaiarasu** *BioMedRx* 2013,1(2),199-204 (IF 2.507, SCOPUS)
9. "Hypoglycemic and anti oxidant activity of *Phyllanthus longiflorus*", M. Jesupillai, **P. Thillai Arasu**, S. Jasemine and P Bharathidhasan, *Journal of Chemical and Pharmaceutical Research*, 2013, 5(12):1542-1545(IF 0.5, SCOPUS)
10. "Quantification Of Heavy Metals And Minerals In Selected Indian Medicinal Plants Using Atomic Absorption Spectrophotometer" , C.Rathanavel and **P.Thillai Arasu** *Int J Pharm Bio Sci* 2013 July; 4(3): (P) 897 – 908 (IF 0.67, SCOPUS)
11. "Inhibition Performance On The Surface Of Aluminium In Alkaline Medium", R.Kalaivani, **P. Thillai Arasu** and S.Rajendran *International Journal of ChemTech Research* 2013,Vol.5, No.4, pp 1714-1723 (IF 0.40, SCOPUS)

12. "Synthesis and Spectroscopic Characterization of Blue Copper Model Schiff Base Complexes", A.kulandaisamy, T. Kavitha, S. Angaiarkanni and **P. Thillai Arasu** *Chem Sci Trans.*, 2013, 2(S1), S147-S152 (IF 0.45, SCOPUS)
13. "Characterization Studies On 4,4'-Bipyridine And Cadmium Dithiocarbamates Involved Dimeric Complexes And Valence Bond Parameter Calculations On Some Cadmium Dithiocarbamate Complexes" A.Manohar*, K. Karpagavel and **P. Thillai Arasu** *Int. Jour. of Chem.Tech Research* 2013, Vol.5, No.4, pp 1486-1494, (IF 0.40, SCOPUS)
14. "Synthesis, Spectroscopic Characterization, Electrochemical and Antimicrobial Studies of Copper(II),Nickel(II), Cobalt(II) and Zinc(II) Complexes Derived from 1-Phenyl-2,3-dimethyl-4(2-iminomethylbenzylidene)-pyrozol-5-(imino)-indole-3-propionic Acid" , Thavuduraj Kavitha, Antonysamay Kulandaisamy And **Ponnusamy Thillai Arasu** *Chem Sci Trans.*, 2013, 2(S1), S25-S32 (IF 0.40, SCOPUS)
15. "Corrosion inhibition by polymers – A bird's Eye view", R. Kalaivani, **P. Thillai Arasu** and S. Rajendran *Eur. Chem. Bull. Sect. A* 2013, 2(10), 807-815 (SCOPUS)
16. "Physico Chemical Study On The Sea Water Intrusion In Tuticorin Coastal Area", **Ponnusamy Thillai Arasu** and Arumugam Murugan *Int. Jour. of Chem. Tech Res.*2013, Vol.5, No.4, pp 1824-1828 (IF 0.45, SCOPUS)
17. "Corrosion Inhibition By Turn Bull's Blue" , R.Kalaivani, **P.Thillai Arasu** and S.Rajendran *Int. Jour. of Chem. Tech Res.*2013 Vol.5, No.5, 2115-2121 (IF 0.45, SCOPUS)
18. Hydro Geochemistry Of Groundwater Resources" , L. Muthulakshmi , P.Thillai Arasu , A.Murugan *Int. Jour. of Chem. Tech Res.*2013.Vol.5, No.5, 2582-2587, (IF 0.45, SCOPUS)
19. Inhibitive Nature of Carboxymethylcellulose with Zn²⁺ ion", R.Kalaivani, **P.Thillai Arasu** and S.Rajendran, *Chem Sci Trans* 2013, 2(4), 1352-1357 (IF 0.45, SCOPUS)
20. Evaluation of diuretic activity of aerial parts of *Phyllanthus longiflorus* Heyne ex Hook M. Jesupillai, **P. Thillai Arasu**, S. Jasemine and P. Bharathidhasan *Journal of Chemical and Pharmaceutical Research*, 2013, 5(10) : 201-20 (IF 0.5, SCOPUS)

2012

21. "Evaluation of Anti Convulsant Activity of Aerial Parts of *Phyllanthus longiflorus* Heyne Ex Hook" M. Jesupillai, **P.Thillai Arasu**, P.Bharathi Dhasan, S.Jasemine, M. Palanivelu, *European Review for Medical and Pharmacological Sciences Eur Rev Med Pharmacol Sci* 2012; 16 (3 Suppl): 28-30 (IF 1.093, SCOPUS)

22. "A Comparative Study of the Adsorption Efficiency of the Newly Synthetic Nano Iron Oxide and Commercial Activated Charcoal Towards the Removal of the Nickel(II) Ions," by G. Kanthimathi, P.Kotteeswaran, **P.Thillai Arasu** , P.Govindaraj and M.Kottaisamy *E-Journal of Chemistry, Volume 9 (2012), 4, 2384-2393 (IF 0.484, SCOPUS)*

23. Synthesis, Characterization, Redox and Biological Screening studies of copper(II), nickel(II), cobalt(II), zinc(II) and vanadium(IV) complexes derived from 1-phenyl-2,3-dimethyl-4-imino - (2-hydroxy benzylidene) -pyrozol-5-(α -imino)-indole-3-propionic acid” Thavuduraj Kavitha , Antonysamy Kulandaisamy, and **Ponnusamy.Thillaiarasu** *Int.J.ChemTech Res.2012,4(4), 1571-1581. (IF 0.45, SCOPUS)*

2010

24. “ Variation of Physico Chemical Characters of Pond water in Tirunelveli ”, **P.Thillai Arasu** and P.Vijaya, *J. Ecobiol. Vol 26(1) (2010) 189 -194 (SCOPUS)*

2009

25. “Correlation Study on Physicochemical parameters of Ground water in and around coastal area, Tirunelveli district, K.Sirajudeen, **P.Thillai Arasu**,C. PuthiyaSekar , M.A.Neelakantan and S.Poongothai *Int. J.Chem. Sci.7(2)(2009)1421-1426. (IF .078,SCOPUS)*

26. “Protonating and Chelating Efficiencies Of Some Biologically Important Thiocarbonohydrazides in 60%(V/V) Ethanol -Water System by Potentiometric and Spectrophotometric Methods,” S.Sridhar, P.Kulanthaipandi, **P.Thillai Arasu**, Umaiorubahgan, V.Thanikasalam and G.Manikantanur, *World J. Chem. 4 (2) (2009): 133-140, (SCOPUS)*

2007

27. “ Physico –Chemical Analysis on the quality of water in Tamirabarani River, South India, **P.Thillai arasu**, S.Hema and M.A. Neelakantan, *Indian J. Sci. & Technol. 1(2) (2007) 1-7. (SCOPUS)*

28. “ Microbial and Physico-Chemical Status of Ground Waster Contamination in Tirunelveli Town, Tamil Nadu, India, **P.Thillai Arasu** and M.Esakki Ammal, *Indian J. Environ & Ecoplan. 14(1-2)(2007) 191-194. (SCOPUS)*

2006

29. “Hydrochemistry of Ground water in Palayamkottai Taluk , Tamil Nadu, India”, **P.ThillaiArasu**, G.Uma Maheswari and M.Esakkiammal, *Indian J.Environ.&Ecoplan. 12(3) (2006) 711-714. (SCOPUS)*

30. "Studies on Combustion in Supersonic Flows", S.Jeyakumar, P.Balachandran, S.Indira and **P.Thillai Arasu**, *Asian J.Chem.*, **18 (2006) 2557-2561**. (IF 0.247, SCOPUS)
31. "Study of the Physico-chemical Parameters of ground water of Sathankulam Taluk, Tuticorin district" , **P.Thillai arasu**, J.I.Jeyamalar and P.Vijaya, *J.Curr.Sci.* **9(2) (2006) 863-868**. (SCOPUS)

2003

32. "Ground water Chemistry and Public health Status in and around Tiruchendur", T.Jeyakumar, S.Indira and **P.Thillai Arasu**, *Indian J.EnvIRON. Prot.* **23(3) (2003) 256-260**. (SCOPUS)

2002

33. "Studies on ternary complexes of nickel(II) involving ligands with nitrogen, sulfur or oxygen as donar groups". M.S.Nair , A.D.Lakshmi, P.Vijaya, **P.Thillai Arasu** and M.A.Neelakantan, *J.Indian Chem.Soc.*, **79 (2002) 81-83**. (IF 0.38, SCOPUS)

1999

34. "Structural influence on the stability of some nickel(II) ternary complex chelates". M.S.Nair, J.P.Anbarasi, **P.Thillai Arasu** and M.A.Neelakantan, *Indian J.Chem.*, **38A (1999) 166-169**. (IF 0.787, SCOPUS)

1998

35. Potentiometric and visible spectral studies of mixed-ligand complexes of nickel(II) containing 1,2-diaminopropane and some aminoacids". M.S.Nair, **P.Thillai Arasu**, M.A.Neelakantan, M.Vincent and M.S.Pillai, *J.Indian Chem.Soc.*, **75 (1998) 95-97**. (IF 0.38, SCOPUS)
36. "Thermodynamic parameters of imidazole containing mixed ligand complexes of nickel(II)". M.S.Nair, **P.Thillai Arasu**, M.A.Neelakantan and M.S.Pillai, *Indian J.Chem.*, **37A (1998) 512-516**. (IF 0.787, SCOPUS)
37. "pH-metric and spectroscopic studies on some ternary complex systems of nickel(II)". M.S.Nair, **P.Thillai Arasu**, S.G. Sutha, M.A.Neelakantan and M.S.Pillai, *Indian J.Chem.*, **37A (1998) 1084-1089**. (IF 0.787, SCOPUS)

1997

38. Computer based stability constants and absorption maximum values for the copper(II) ternary complexes containing L-Cysteic acid and some selected ligands". M.S.Nair, **P.Thillai Arasu** and M.A.Neelakantan, *Indian J.Chem.*, **36A (1997) 879-886**. (IF 0.787, SCOPUS)

1996

39. "Multiple equilibrium studies on some zinc(II) mixed ligand complex systems". M.S.Nair, **P.Thillai Arasu** and M.S.Pillai, *Indian J. Chem.*, **35A (1996) 793-795**. (IF 0.787, SCOPUS)

1995

40. "Mixed-Ligand complexes of Ni(II) involving sulphur containing ligands and Diaminocarboxylic acids". M.S.Nair, **P.Thillai Arasu**, M.S.Pillai and C.Natarajan, *Trans.Metal Chem.*, **20 (1995) 132-135**. (IF 1.187, SCOPUS)
41. "Stability and structure of copper(II),nickel(II)and zinc(II) heterobinuclear complexes containing some biologically important ligands". M.S.Nair, **P.Thillai Arasu**, S.S.Mansoor, P.S.Valli and M.A. Neelakantan, *Indian J.Chem.*, **34A (1995) 365-369**. (IF 0.787, SCOPUS)

1994

42. "Structural influence on the stability of mixed ligand complexes of copper(II) with aliphatic diamines and aminoacids". M.S. Nair, **P.Thillai Arasu**, P.Thilagavathi and M.A. Neelaknatan, *Indian J.Chem.*, **33A (1994) 429-431**. (IF 0.787, SCOPUS)
43. "Formation constant studies on some copper(II) ternary complex systems". M.S. Nair, **P.Thillai Arasu**, P.Sutherson, M.S.Pillai and P.B.Rajakumar, *Asian J. Chem.*, **1 (1994) 72-76**. (IF 0.247, SCOPUS)
44. "Potentiometric studies on certain copper(II) mixed ligand systems". M.S. Nair, **P.Thillai Arasu**, M.S.Pillai and J.E. Thavaseeli, *Asian J. Chem.*, **1 (1994) 151-153** (IF 0.247, SCOPUS)

1993

45. "Mixed-Ligand complexes involving sulphur containing ligands. Part II.Zn(II) Ternary complexes involving L-Cysteine/D-Pencillamine/L-Cysteic acid and Imidazoles". M.S.Nair, **P.Thillai Arasu**, M.S.Pillai and C.Natarajan, *Talanta* , **40 (1993)1411-1417**. (IF 3.73, SCOPUS)
46. "Mixed-Ligand complexes involving sulphur containing ligands. Part I. Ni(II) Ternary complexes involving L-Cysteine/D-Pencillamine/L-Cysteic acid and Imidazoles". M.S.Nair, **P.Thillai Arasu**, M.S.Pillai and C.Natarajan, *J.Chem.Soc. Dalton Trans.*(1993) **917-921**. (IF 3.806, SCOPUS)

47. "Heterobinuclear complex formation by transition metal ions: Part II-Complexes with L-aspartic acid, DL-4-amino-3-hydroxybutyric acid and L-2,4-diaminobutyric acid". M.S.Nair, **P.Thillai Arasu**, T.L.Fernando, M.S.Pillai and M.Chandran, *Indian J.Chem.*, **32A (1993) 807-809**. (IF 0.787, SCOPUS)
48. "Studies on the multiple equilibria involved in some copper(II) mixed ligand systems". M.S.Nair, L.Kamakshi, **P.Thillai Arasu** and M.S.Pillai, *Asian J.Chem.*, **5 (1993) 381- 385**. (IF 0.247, SCOPUS)
49. "Stability constant studies on some Zn(II) mixed ligand systems". M.S.Nair, **P.Thillai Arasu**, P.Sutherson and P.R.Moni, *Asian J. Chem.*, **5 (1993) 948-952**. (IF 0.247, SCOPUS)

1992

50. "Heterobinuclear complex formation by iminodiacetic acid and DL-2,3-Diaminopropionic acid with some transition metal ions-Part I". P.R.Moni, **P.Thillai Arasu** and M.S.Nair, *Indian J.Chem.*, **31A (1992) 760-763**. (IF 0.787, SCOPUS)
51. " Studies on copper (II) and zinc (II) mixed ligand complexes involving some potentially tridentate ligands". M.S.Nair, **P.Thillai Arasu**, R.J.Margret, C.Sudha and M.S. Pillai, *Indian J.Chem.*, **31A (1992) 865-869**(IF 0.787, SCOPUS)

1990

52. "Stability and structure of Cu(II) and Zn(II) ternary complexes with L-Glutamic acid and some Diaminocarboxylic acids". M.S.Nair, S.T.D. Manickam, **P.Thillai Arasu** and C.Natarajan, *Proc.Indian Acad.Sci.(Chem.Sci.)*, **102 (1990) 731-736**. (IF 0.339, SCOPUS)
53. "Studies on some copper (II) ternary complex systems containing amino acids". M.S.Nair and E.Chellam **P.Thillai Arasu**, *Indian J.Chem.*, **29A (1990) 1233- 1236**. (IF 0.787, SCOPUS)

GENERAL PAPERS PUBLISHED IN THE JOURNAL

1. " Teaching How To Teach? – A Modelistic Approach", S.Hema, **P.Thillai Arasu** and C.Vanmathi, *School Science (Quarterly Journal of Science Education)* **41(5) (2003) 73-81**.
2. "Dioxin – A Persistent Organic Pollutant of the 21st Century" **P.Thillai Arasu**, S. Hema and G. Vanmathi , *Agrobios News Letter* **3(6) (2004)10-12**.
3. EL-NINO Causes and its Impacts", **P.Thillai Arasu** and S.Hema, *Agrobios News Letter* **4(7) (2005) 62-64**.
4. "Organic Agriculture -An Environmental Triumph of high yield forming", S.Hema and **P.Thillai Arasu**, *School science, (Quarterly Journal of Science Education)* **44(1) (2006) 53-56**.

PAPERS PUBLISHED IN INTERNATIONAL PROCEEDINGS

1. **P.Thillai Arasu**, P.Seenidurai, S. M. Suresh Kumar, M.Paramaguru “Humidity sensor based on polyaniline(PANI) – polyvinyl alcohol(PVA) nano composite” *“International Conference on Advanced Materials and Its Applications(ICAMA-2011)* McMillan Publication, NewDelhi, Vol 1, 268-276, 2011
2. A. Manohar, K. Ramalingam, **P. Thillai Arasu** and A. Murugan, “Cyclic Voltammetry, XPS based electron distribution studies and Bond Valence Sum (BVS) analysis on NiS₄ and NiS₂P₂ Chromophores” *International Conference on Advanced Materials and its Applications, (ICAMA-2011)*, McMillan Publication, NewDelhi, Vol 1, 586-593, 2011
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ANNEXURE II

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- 55 C. Rathanavel and **P.Thillai Arasu** “Quantification of Heavy metals and minerals in selected Indian medicinal plants using Atomic Absorption Spectrophotometer” presented in the *International Conference On Multidisciplinary Frontiers Of Medicinal Chemistry: Synthesis, Molecular Biology & Technology*, Organized by School of Chemical and Biotechnology, SASTRA University, Thanjavur during 18th & 19th January 2013
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- 67 R.S.Diana Sangeetha and **P.Thilla Arasu**, “Vibrational Analysis of 3- Amino benzoic Acid in DMF” presented in the *Second National Conference on Advanced Functional Materials and Applications (NCAFMA-2013)* organized by the Department of Chemistry, Kalasalingam University, Anand Nagar during 22-23rd March 2013
- 68 **P. Thillai Arasu** , A. Murugan, T.Jeyakumar and S.Indira, “Synthesis and characterization of the Nano hybrid Ion-exchange Material for defluoridation” presented in the *Second National Conference on Advanced Functional Materials and Applications (NCAFMA-2013)* organized by the Department of Chemistry, Kalasalingam University, Anand Nagar during 22-23rd March 2013
- 69 R.Kalaivani, **P.Thillai Arasu** and S.Rajendran, “A Study of Synergistic Effect Exist Between Zn^{2+} - PMMA System” presented in the *Second National Conference on Advanced Functional Materials and Applications (NCAFMA-2013)* organized by the Department of Chemistry, Kalasalingam University, Anand Nagar during 22-23rd March 2013
- 70 R.Kalaivani, **P. Thillai Arasu** and S.Rajendran, “Biocidal effect of CMC - Zn^{2+} system on the inhibition of corrosion of aluminium in alkaline environment” presented in the *Second National Conference on Advanced Functional Materials and Applications (NCAFMA-2013)* organized by the Department of Chemistry, Kalasalingam University, Anand Nagar during 22-23rd March 2013
- 71 R.Kalaivani, **P. Thillai Arasu** and S.Rajendran “Corrosion Inhibition by pottasiumferrocyanide ” to be presented in the *International Conference on Advanced Manufacturing and Automation(INCAMA 2013)* organised by the Department of Mechanical Engineering, Kalasalingam University, Anad Nagar during 28-30th March 2013.

- 72 **P. Thillai Arasu**, A.Murugan and C.Rathinavel “ Hydrochemistry and Public Health Status in and around SIPCOT, Tuticorin, Tamil Nadu, India ” to be presented in *the International Conference on Advanced Manufacturing and Automation(INCAMA 2013)* organised by the Department of Mechanical Engineering, Kalasalingam University, Anad Nagar during 28-30th March 2013.
- 73 **P.Thillai Arasu**, C.Rathanavel “Evaluation of Antibacterial activity of different solvent extracts of selected medicinal plants against human pathogens”, presented in the *National conference on “BIOTECHNOLOGY-PRESENT AND FUTURE”* organized by the Department of Biotechnology Dr.N.G.P.Arts and Science College, Coimbatore. During September 26th & 27th ,2013
- 74 G. Kanthimathi P. Kotteesewaran M. Kotaisammy and **P. Thillai Arasu**“ A comparative study on the adsorption efficiency of synthetic nano iron oxide and commercial activated carbon towards the removal of Pb(II) ions presented in the *International Conference on Emerging Trends in Chemical Sciences (IETC – 2013)*, organized by the Department of Chemistry VIT university, Vellore December 5-7, 2013
- 75 **P. Thillai Arasu** C.Rathinavel and J.Sumitha “Activity In Selected Indian Medicinal Plant Extracts Using Disc Diffusion Method” Presented in the *National Conference On Herbal Medicine: Back To The Future(NCHM 2013)* Frontier Lifeline/Cherian Heart Foundation Chennai October 09 & 10,-2013
- 76 R.Kalaivani, **P. Thillai Arasu** and S.Rajendran, “ Investigation of the inhibiting effect of Polyvinylalcohol (PVA) on aluminium metal surface”, presented in the *DST sponsored National Seminar on Emerging Concepts and Trends in Bioinorganic Chemistry (ECTBC’14)* organized by the Chemistry Research Centre, National Engineering College, Kovilpatti, 7-8, February 2014.
- 77 **P. Thillai Arasu** C.Rathinavel and J.Sumitha “Screening of Medicinal Plant Extracts for Antioxidant activity, total phenolic content and flavonoid Concentrations”, presented in the *DST sponsored National Seminar on Emerging Concepts and Trends in Bioinorganic Chemistry (ECTBC’14)* organized by the Chemistry Research Centre, National Engineering College, Kovilpatti, 7-8, February 2014.
- 78 R.S.Diana Sangeetha, **P. Thillai Arasu**, R.S.Daries Bella and G.H.Kumar, “Study on Dissociation of Amino Benzoic acid isomers in Dimethyl formamide” presented in the *DRDO sponsored Third National Conference on Advanced Functional Materials and Applications (NCAFMA2014)* organized by the Department of Chemistry Kalasalingam University, Anand Nagar, 21-22, March 2014.
- 79 M.Jesupillai, P.thillai Arasu, K.Ajitha and M.Palanivelu, “Evaluation of anti Hyperglycemic activity of *Cadabatrifoliata* in Alloxan induced diabetic rats” presented in the *DRDO sponsored Third National Conference on Advanced Functional Materials and Applications (NCAFMA2014)* organized by the Department of Chemistry Kalasalingam University, Anand Nagar, 21-22, March 2014.

- 80 R.Kalaivani, **P. Thillai Arasu** and S.Rajendran, “ Surface investigations of aluminium in alkaline solution in the presence of water soluble polymer” , presented in the ***DRDO sponsored Third National Conference on Advanced Functional Materials and Applications (NCAFMA2014)*** organized by the Department of Chemistry Kalasalingam University, Anand Nagar, 21-22, March 2014.
- 81 A. Manohar, K.Ramlingam , K. Karpagavel, A. Manohar and **P. Thillai Arasu**, “ Reactivity of diamine based dithiocabamate complexes of Nickel (II) with Dimethylglyoxime” presented in the ***DRDO sponsored Third National Conference on Advanced Functional Materials and Applications (NCAFMA2014)*** organized by the Department of Chemistry Kalasalingam University, Anand Nagar, 21-22, March 2014.
- 82 C.Rathinavel and **P. Thillai Arasu**, “ Adsorption efficiency of Nano Activated carbon towards the removal of heavy metal ions from medicinal plants” presented in the ***DRDO sponsored Third National Conference on Advanced Functional Materials and Applications (NCAFMA2014)*** organized by the Department of Chemistry Kalasalingam University, Anand Nagar, 21-22, March 2014.
- 83 G. Kanthimathi **P. Thillai Arasu** P. Kotteesewaran and M. Kotaisammy , “Efficiency of commercial activated carbon towards the removal of mixture of metal ions” presented in the ***DRDO sponsored Third National Conference on Advanced Functional Materials and Applications (NCAFMA2014)*** organized by the Department of Chemistry Kalasalingam University, Anand Nagar, 21-22, March 2014.
- 84 R.Kalaivani, **P. Thillai Arasu** and S.Rajendran, “ Synergistic effect of carboxymethylcellulose with Zn²⁺ Complex,” presented in the ***DRDO sponsored Third National Conference on Advanced Functional Materials and Applications (NCAFMA2014)*** organized by the Department of Chemistry Kalasalingam University, Anand Nagar, 21-22, March 2014.
- 85 T.Kavitha, A.Kulandaisamy and **P. Thillai Arasu** “Synthesis, spectroscopic characterization , redox and Antimicrobial studies of Cu(II), Ni(II), Co(II), Zn(II) and V(IV) complexes derived from 1-phenyl-2,3-dimethyl-4(4-iminipentan-2one)-pyrozol-5-(A-imino)-indole-3-3proppionic acid,” ,” presented in the ***DRDO sponsored Third National Conference on Advanced Functional Materials and Applications (NCAFMA2014)*** organized by the Department of Chemistry Kalasalingam University, Anand Nagar, 21-22, March 2014.
- 86 R.Kalaivani, **P. Thillai Arasu** and S.Rajendran, “Sodium salts of phosphate as corrosion inhibitor for aluminium in alkaline medium” presented in the ***ISTE sponsored second National conference Recent Development in Advanced Materials (RDAM 2014)*** organized by the Department of Science and Humanities, Mohamed Sathak Engineering College, Kilakarai, 5th April 2014.

WORKSHOP/COURSES/SEMINAR PARTICIPATION

1. Attended the All India Winter School on “**Microcomputers in Chemistry**”, Sponsored DST, New Delhi held at VHNSN College, Virudunagar during 18th –30th November 1991.
2. Attended the “**Orientation Course NSS Programme Officers**” organized by Ministry of Youth Affairs, New Delhi held at Sri Avinashilingam Deemed University, Coimbatore during 22nd – 31st July 2002.
3. Attended the “**Refresher Course on Bio-Technology & Bio-Engineering**” Sponsored by UGC, New Delhi held at Jawaharlal Nehru Technological University, Hyderabad during 11th – 30th November 2002.
4. Participated in the ISTE sponsored National Level Seminar on “ **Quality Oriented Technical Education**”, held at National Engineering College, Kovilpatti during 25th to 26th July 2003.
5. Participated in the UGC – UAG sponsored seminar on “ **Spectroscopy – A Modern Science Tool**” held at Department of Chemistry, M.S.University, Tirunelveli –12 during 19th March 2004.
6. Attended the “**Short Term Course on Principles of Environmental Science and Engineering**” organized by Centre for Faculty Development, Anna University held at College of Engineering, Chennai during 18th to 23rd May 2004.
7. Participated in the AICTE sponsored workshop on “ **Environment and Pollution Awareness**” held at National Engineering College, Kovilpatti during 9th and 10th June 2004.
8. Attended the QIP short term course on “**Recent Trends in Environmental Physics**” held at Department of Physics, IIT Madras, Chennai during 22nd to 27th November 2004
9. Attended the Faculty Development Programme on “**Total Quality Management (TQM)**” held at Dr.SACOE, Tiruchendur during 8th to 10th December 2004.
10. Attended the Tamil Nadu Energy Development Agency (TEDA) Sponsored One Day Seminar on “**Uses of Renewable Energy**” held at Dr.SACOE, Tiruchendur during 3rd February 2005.
11. Participated in the M.S.U. sponsored seminar on “ **Frontiers in Physical Chemistry**” held at Department of Chemistry, M.S.University, Tirunelveli –12 during 4th March 2005.
12. Participated in the Tamil Nadu Energy Development Agency (TEDA) Sponsored One Day Seminar on “**Renewable Energy- Energy of the Future**” held at National College of Engineering, Tirunelveli during 20th August 2005.
13. Participated in the Two day seminar on “**Teaching and Research**” sponsored by the Ministry of Education held at Eritrea Institute of Technology, Mai –Nefhi, Eritrea, North East Africa, during 12th & 13th December 2007

14. Participated in the one week course on “**Stress Management**” held at Centre for Learning Technologies, Kalasalingam University, Krishnankoil during 1st December 2008 to 7th December 2008.
15. Participated in the Nagasaki University sponsored National Seminar on “**Current and Future Radiation Research Between India and Japan**” held at Department of physics, Kalasalingam University during 5th February 2009.
16. Participated in the National symposium on “**Technologies for Healthcare-Stem Cells, Nanotechnology and Beyond**” held at Department of Biotechnology, Kalasalingam University, Krishnankoil during 27th February 2009.
17. Participated in the workshop on “**Current Trends in Physics**” held at Department of Physics, Kalasalingam University, Krishnankoil during 6th April 2009
18. Member, Organizing committee on National Seminar on “**Nanotechnology for Energy and Environmental Applications- 2009**” held at Department of Chemistry, Kalasalingam University, Anand Nagar, Krishnankoil during 9th April 2009.
19. Advisory committee member on **National Conference on “Recent trends in Instrumentation**” held at Department of EIE / ICE , RVS College of Engineering and Technology, Dindigul during 4th December 2009.
20. Participated in the **National Conference on Advance Topics in Chemistry** held at St.John’s College, Palayamkottai during 05.02.2011
21. Participated in the DST sponsored **National level symposium on Emerging Concepts and Trends in Bioinorganic Chemistry** at National Engineering College, Kovilpati during 24.02.2011 & 25.02.2011
22. Member , Local organizing committee on the *International Conference on Advanced Materials and its Applications, (ICAMA-2011)*, Organised by Department of Physics and Chemistry, Kalasalingam University, Krishnankoil, during 4-5, March, 2011.
23. Convener, *CSIR Sponsored National Conference on Advanced Functional Materials and Applications (NCAFMA-2011)* Organised by Department of Chemistry & Centre for Nano technology, Kalasalingam University, Anand Nagar, Tamil Nadu India, during December 16-17, 2011
24. Advisor and Chair Person, *National conference on Technologically Important Crystalline and Amorphous Solids (TICAS 2012)*, Organised by the Department of Physics , Kalasalingam University, Krishnankoil , during 2-3rd March 2012
25. Participated in the *DAE-BRNS theme Meeting on Materials Chemistry (TMMC-2012)* Organized by UGC-DAE CSR, Kalpakkam Node and Indira Gandhi Centre for Atomic Research, Kalpakkam during 13-15th February 2012.

- 26 Chair Person *in DRDO sponsored National Level Workshop on Recent Trends in Inorganic Materials (RTIM 2012)* Organized by Department of Science & Humanities, National Engineering College, Kovilpatti, during 9 -10th March 2012.
- 27 Convener, *DST Sponsored Second National Conference on Advanced Functional Materials and Applications (NCAFMA-2013)* Organised by Department of Chemistry & Centre for Nano technology, Kalasalingam University, Anand Nagar, Tamil Nadu India, during March 22-23 ,2013
- 28 Advisor and Chair Person, 2nd *National conference on Technologically Important Crystalline and Amorphous Solids (TICAS 2013)*, Organised by the Department of Physics , Kalasalingam University, Krishnanakoil , during 2-3rd March 2013
- 29 Advisor and Chair Person, 3rd *National conference on Technologically Important Crystalline and Amorphous Solids (TICAS 2014)*, Organised by the Department of Physics , Kalasalingam University, Krishnanakoil , during February 28-March 1 2014
- 30 Coordinatort, *DRDO Sponsored Third National Conference on Advanced Functional Materials and Applications (NCAFMA-2014)* Organised by Department of Chemistry & Centre for Nano technology, Kalasalingam University, Anand Nagar, Tamil Nadu India, during March 21-22 ,2014

Invited Talk/Guest Lecture

1. Delivered a guest lecture on “*Hazardous Waste Management*” in the Chemistry Association inauguration held at Sri Saradha College for Women, Palayamkottai during 16th July 2005
2. Delivered a talk on *Bio –Energy* in the Tamil Nadu Energy Development Agency (TEDA) Sponsored One Day Seminar on “**Renewable Energy- Energy of the Future**” held at National College of Engineering, Tirunelveli during 20th August 2005
3. Delivered a Guest Lecture on *Guiding to Research* in the Two day seminar on “**Teaching and Research**” sponsored by the Ministry of Education held at Eritrea Institute of Technology, Mai –Nefhi, Eritrea, North East Africa, during 12th & 13th December 2007
4. Delivered a Guest Lecture on “*Solid waste Management*” at Sadakathullah Appa College, Palayamkottai, Tirunelveli during 06.08.2010
5. Delivered a Guest Lecture on “*Waste Management a mean to preserve Environment*” in the Chemistry Association Inauguration held at Sri KGS Arts College, Srivaikuntam, Tuticorin during 24.01.2011

6. Invited Lecture on “**Hazardous waste Management- A Green Chemistry Approach**” in the **National Conference on Advance Topics in Chemistry** held at St.John’s College, Palayamkottai during 05.02.2011
7. Invited Lecture on “**Mixed Ligand Cu(II) and Ni(II) complexes of Amino Acids and Diamines**” in the DST sponsored **National level symposium on Emerging Concepts and Trends in Bioinorganic Chemistry** at National Engineering College, Kovilpatti during 24.02.2011
8. Invited Lecture on “Development of new Humidity sensor based on polyaniline(PANI) – polyvinyl alcohol (PVA) nano composite” in the **DAE-BRNS theme Meeting on Materials Chemistry (TMMC-2012)** Organized by UGC-DAE CSR, Kalpakkam Node and IGCAR Kalpakkam during 13-15th February 2012
9. Invited Lecture on “Recent techniques in Synthesis, characterization, and biological Studies of Schiff base complexes” **DRDO sponsored National Level Workshop on Recent Trends in Inorganic Materials (RTIM 2012)** National Engineering College, Kovilpatti, during 9 -10th March 2012
10. Invited Lecture on “corrosion inhibition effect of Polymers on aluminium Metal”**DST sponsored National Level seminar on Emerginig concepts and Trends in Bioinorganic chemistry (ECTBC’14)**, organized by the Chemistry Research Centre, National Engineering College, Kovilpatti 628 503
- 11.

(Dr.P.THILLAI ARASU)