Brief Curriculum Vitae

Personal Profile

Name	: Dr. C. Dorothy Sheela
Date of Birth	: 31.05.1964
Age & Sex	: 57 Years, Female
Educational Qualification	: M.Sc., Ph.D.,
Designation	: Bursar & Associate Professor
Department	: Post Graduate & Research Department of Chemistry
Institution	: The American College (Affiliated to MKU)
	Madurai, Tamil Nadu, India
Date of Joining	: 27th June 1997
Teaching Experience	: PG- 27 years
	UG- 27 Years
Area of Research	: Inorganic Chemistry
Research Project	: Ph.D -2
	M.Phil- 16
	MSc -46
Project grants received	: UGC, DRDO
Member of Governing Body	: Member of Governing council, The American College.
Member of Board of Studies	: Lady Doak College
	Fatima College
	Thiagarajar College of Arts and Science
	Jayaraj Annapackiam College
Additional Responsibility	: Coordinator (SF) Chemisty
Address for Communication	: Washburn Bunglow, The American College, Madurai.

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Guest Lecture:

1. Delivered a guest lecture on **"Organo Metallic Chemistry"** Organized by the PG Department of Chemistry, Sri Meenakshi Government Arts College For Women(A), Madurai-02 on 17th February 2021.

2. Delivered a guest lecture on "**Metal-Ligand Multiple Bonded Compounds**" organized by Department of Chemistry, Ayya Nadar Janaki Ammal College, Sivakasi on 25th June 2020.

3. Delivered a guest lecture on "**Mossbauer Spectroscopy and its Applications**" organized by Department of Chemistry, Fatima College (Autonomous), Madurai – 625 002 on 19th October 2011.

4. Delivered a guest lecture on "**Spectroscopy as applied to co-ordination compounds**" organized by Department of Chemistry, Jeyaraj Annapackium College for Women (Autonomous), Periyakulam on 29th September 2009.

5. Delivered a guest lecture on "**Main group chemistry and Organo-metallic chemistry**" organized by PG Department of Chemistry, Lady Doak College (Autonomous), Madurai – 625 002 on 9th August 2008.

6. Delivered a guest lecture on "**Spectral techniques for the structural determination of metal complexes**" organized by Department of Chemistry, Fatima College (Autonomous), Madurai – 625 002 on 18th and 19th February 2008.

7. Delivered a guest lecture on "Applications of **Mossbauer, NQR and NMR Spectra to co-ordination compounds**" organized by Department of Chemistry, Fatima College (Autonomous), Madurai – 625 002 on 4th and 5th February 2007.

Convenor/Co-ordinator:

1. International Webinar-III on **"PEM fuel cells for Electric vehicles" and "Heterogeneous catalyst design for desulfurization targeting clean environment"** Organized by the PG & Research Department of Chemistry, The American College, Madurai, on 28th June 2021.

2. 2nd International Conference on **"Women and Power – Challenges and Opportunities"** Organized by Centre for Gender Studies, The American College, Madurai, on 6th & 8th January 2017.

Awards Received

1. **"InSc Awards 2021"** for **Research Excellence Award 2021**to the publication of patent work title: "Physiologically Stable Gold(III) Complex as Anticancer, Antioxidant agent thereof" presented by Institute of Scholars, Bengaluru – 5600 091, India.

2. **"Best Women Associate Professor Award (2019)"** for PEARL Foundation Educational Excellence Awards to Higher Education in India 2018-2019 presented by PEARL-A Foundation for Educational Excellence in Bangalore – 560 100, India on 15th March 2020.

Members in Board of Studies:

- Nominated member in the Board of Studies in Chemistry, Lady Doak College, Madurai from 01.06.2009 – 31.05.2011.

Research grant Received

S. No	Title of Minor Research Project	Funding Agency	Amount	Duration
1.	Synthesis and Study of Phosphazene Based Hetero Bimetallic Compounds.	UGC	80,000.00	2005-2007
S. No	**Title of Major Research Project**	**Funding Agency**	**Amount**	**Duration**
1.	Development of Metal Complex based NLO Materials for Various Potential Applications	DRDO	14.99 lakhs	2007-2009

Patent Details

Awarding Organisation: Indian Government

S. No.	Name of the Patent	Reference No.	Date of Filed	Date of Publication	Role	Status
1	Physiologically Stable Gold(III) Complex as Anticancer, Antioxidant agent thereof	202041030848 A	20/07/2020	31/07/2020	Inventor	Published
2	A process of preparing anti-cancer activities exhibiting novel bis(DPPT) cobalt(II) chloride and product thereof	202041034117A	08/08/2020	04/09/2020	Inventor	Published
3	A process of preparing novel curcumin - triazine based transition metal complexes and products thereof	202141004751 A	03/02/2021	12/02/2021	Inventor	Published

Acting as a Supervisor

S. No.	NAME OF THE CANDIDATE	TOPIC	NAME OF THE UNIVERSITY	STATUS
1.	D. Jim Livingston	Studies on chromone based metal chelates	M. K. University	Awarded
2.	A. Dharmanandam	Preparation of novel compounds for sensing application	M. K. University	Doing

Google Scholar Citations

	All	Since 2016
Citations	564	337
h-index	14	11
i10-index	18	11

Research Publications

1. Bio-inspired nickel nanoparticles of pyrimidine-Schiff base: *In vitro* anticancer, BSA and DNA interactions, molecular docking and antioxidant studies, P. Adwin Jose, M. Sankarganesh, J. Dhaveethu Raja, G. S. Senthilkumar, R. Nandhini Asha, S. Johnson Raja, **C. Dorothy Sheela**, *Journal of Biomolecular Structure and Dynamics*, 2021. https://doi.org/10.1080/07391102.2021.1947382

2. Bioactive platinum complex of ligand bearing pyrimidine skeleton: DNA/BSA binding, molecular docking, anticancer, antioxidant and antimicrobial activities, M.Sankarganesh, P.Adwin Jose, J.Dhaveethu Raja, R.Vijay Solomon, **C.Dorothy Sheela** and S.Gurusamy, *Journal of Biomolecular Structure and Dynamics*, 2021. https://doi.org/10.1080/07391102.2021.1889667

3. Fabrication of triazine based colorimetric and electrochemical sensor for the quantification of Co^{2+} ion, J. Jone Celestina, P. Tharmaraj, A. Jeevika and **C. D. Sheela,** *Microchemical Journal*, 155, (2020). https://doi.org/10.1016/j.microc.2020.104692

4. Greener development of highly selective turn-on fluorogenic chemo sensor for Cd^{2+} - Cell imaging and test strips studies, J. Jone Celestina, P. Tharmaraj , **C. D. Sheela**, *Optical Materials*, 109 (2020) 110176. https://doi.org/10.1016/j.optmat.2020.110176

5. One-pot green synthesis of optical fluorescent sensor for selective detection of Ni^{2+} ions and hydro gel studies, J. Jone Celestina, P. Tharmaraj, **C. D. Sheela**, L. Alphonse, J. Shakina, *Optical Materials*, 109 (2020) 110444. https://doi.org/10.1016/j.optmat.2020.110444

6. Synthesis of Novel Azo-Based Ligand 1, 5-Bis (2-Hydroxy-4-(P-Tolyldiazenyl) Phenyl) Pent A-1, 4-Dien-3-One (Htdppd) And Its Metal (Ii) Complexes For Selective Sensing Of Cu^{2+} Complex, V.Aruldeepa, P.Tharmaraj, **C. D. Sheela** and M. Priyadharsani, *International Journal of Multidisciplinary Educational Research*, volume:9, Issue:5(5), (2020)

7. Novel triazine-based colorimetric and fluorescent sensor for highly selective detection of Al^{3+}, J.Jone Celestina, L.Alphonse, P.Tharmaraj and **C.D.Sheela**, *Journal of Science: Advanced Materials and Devices*. Vol 4 237-244 May 2019 http://dx.doi.org/10.1016/j.jsamd.2019.05.001

8. Novel Hydroxy pyrimidine based chelating ligand for microbial evaluation studies, M. Priyadharsani, P.Tharmaraj, **C. D. Sheela** and J.Jone celestina, *International Journal of Scientific Research and Reviews*. Vol 8 Issue(2), 4167-4176 June 2019

9. Novel Chalcone based fluorescent sensor for selective sensing of Zn^{2+} Complex, V. Aruldeepa, P.Tharmaraj, **C. D. Sheela** and J. Jone Celestina, *International Journal of Scientific Research and Reviews*. Vol 8 Issue(2), 4177-4189 June 2019.

10. Synthesis, Characterization and DNA binding affinities of mixed ligand Cu(II)complexes of 3-((E)-(2-hydroxyphenylimino)methyl)-4H-chromen-4-one, D. Jim Livingston, C. Joel, R. Biju Bennie, T. Christopher Jeyakumar, **C. D. Sheela**, *JETIR***.,** 2019, 6, 633-649.

11. Novel Salen Based Azo Conjugated Ligand for Chemosensing and its Antibacterial Studies, L. Alphonse, P.Tharmaraj **C. D. Sheela** and M. Priyadharsani, *International Journal of Scientific Research and Reviews*. Vol 7 Issue(4), 2304-2315, 2018.

12. Studies on Novel O-Hydroxyacetophenone Substituted Triazine Based Ligand and its Metal Complexes, Kileyoba Vinnarasi, Tharmaraj P, **Sheela C.D**, *Journal of Advanced Applied Scientific Research* -ISSN: 2454-3225, Vol-1-9-March-2017: 85-90

13. Studies on Antiaminopyrine Substituted Triazine Moiety with Notable NLO Property, J.Kileyoba Vinnarasi, P.Tharmaraj, **C.D.Sheela**, B.Vinosha, ISSN-2249-555X, *Indian Journal of applied Research* 5(10): 60-62 (2015). DOI : 10.36106/ijar.

14. A facile synthesis of novel (3,3'-(6-phenyl-1,3,5-triazine-2,4-diyl)bis(azan-1-yl-1-ylidene)bis(methan-1-yl-1-ylidene)bis(4H-chromen-4-one)), J.Kileyoba Vinnarasi, P.Tharmaraj, **C.D.Sheela**, *Roots International journal of Multidisciplinary Researches*, 7, 2015, 112-124.

15. Studies on Schiff base derived from 2-thiophene carboxaldehyde and 2-(4-chloro phenyl amino)-4,6-dihydrazenyl-1,3,5 triazine and its transition metal (II)complexes, G.Priyanka, K.Palaniselvi, M.Vadhanaruba, P.Tharmaraj, **C. D. Sheela**, *Roots International journal of Multidisciplinary Researches*, 4, 2015, 112-124.

16. Transition metal complexes of s-triazine derivative: New class of anticonvulsant, anti-

inflammatory, and neuroprotective agents. Shanmugakala, R.;Tharmaraj, P.; **Sheela, C. D.**; Chidambaranathan, N, *Medicinal Chemistry Research,* 23: 329-342 (2014). DOI:10.1007/s00044-013-0634-0

17. Synthesis, Spectral Studies, NLO, and Biological Studies on Metal(II) Complexes of s-Triazine-Based Ligand, R. Shanmuga kala, P.Tharmaraj, and **C. D. Sheela,** ISSN: 1553-3174, *Syn. and React. in Inorg. M.Org. and Nano-M. Chemistry*, 44:1487–1496 (2014). http://dx.doi.org/10.1080/15533174.2013.818018

18. Synthesis and spectral studies on metal complexes of S-triazine based ligand and non linear optical properties, R. Shanmuga kala, P.Tharmaraj, and **C. D. Sheela,** *J. of Mol. Struc.*, 1076, (2014) 606-613 http://dx.doi.org/10.1016/j.molstruc.2014.08.012

19. Studies on A Novel S-Triazine Based ONO Donar Heterocyclic Ligand and its Transition Metal(II) Complexes, M.Vathanaruba, P.Tharmaraj, **C.D.Sheela,** *International Journal of Advanced Research in Chemical Science.* 2014;1(2):21-27. ISSN 2349-039X.

20. Synthesis, spectral characterization and antimicrobial studies of metal (ii) complexes of schiff base derived from 4-aminioantipyrine and 2-(4-chlorophenyl) chroman-4-one. D Jeyanthi, DJ Livingston, **C.D. Sheela**, *International Journal of Pharmaceutical, Chemical & Biological Sciences*, 4 (2), 2014.

21. Synthesis, spectroscopic characterization and biological activities of metal complexes of 4-((4-chlorophenyl)diazenyl)-2-((p-tolylimino)methyl)phenol, C. Anitha, **C. D. Sheela**, P. Tharmaraj, V.V. Hema, *J. Chem.*, Article ID 724163, 8 pages (2013). http://dx.doi.org/10.1155/2013/724163

22. Studies on synthesis and spectral characterization of some transition metal complexes of Azo-azomethine derivative of diaminomaleonitrile, C. Anitha, **C. D. Sheela**, P. Tharmaraj, R. Shanmugakala, *Int. J. Inorg. Chem.*, Article ID 436275, 10 pages (2013). https://doi.org/10.1155/2013/436275

23. Synthesis, spectral characterization and biological activity of vanillin substituted silane Schiff base and their metal(II) complexes. *International Journal of Emerging Trends in Pharmaceutical Sciences*, R.Ebenezer, P. Tharmaraj, **C.D.Sheela** and D. Kodimunthiri, 1: 5-11 (2013).

24. Synthesis, Spectral, NLO studies and antimicrobial activities of Curcumin diketimines metal complexes, P. Tharmaraj, S.Sumathi, **C.D.Sheela**, R.Ebenezer, *Journal of Coordination Chemistry*; Vol. 65; No. 3; Feb 2012; 506–511(2012) http://dx.doi.org/10.1080/00958972.2012.655727 .

25. Spectral, biological screening of metal chelates of chalcone based Schiff base of N-(3-aminopropyl)imidazole, P. Tharmaraj, M. Kalanithi , M. Rajarajan, **C. D. Sheela**, *Spectrochimica Acta Part A*; 87; 2012; 155-162, (2012). http://dx.doi.org/10.1016/j.saa.2011.11.031

26. Synthesis, Structural, Thermal and Photo-Physical Properties of Triazine Based NLO materials. M. Shyamala Devi, P. Tharmaraj, **C.D.Sheela**, R.Ebenezer, *Journal of Fluorescence*; 1-8(2012). http://dx.doi.org/10.1007/s10895-012-1154-x

27. Spectroscopic studies and biological evaluation of some transition metal complexes of azo Schiff-base ligand derived from (1-phenyl-2,3-dimethyl-4-aminopyrazol-5-one) and 5-((4- chlorophenyl)diazenyl)-2-hydroxybenzaldehyde, C. Anitha, **C. D. Sheela**, P. Tharmaraj, S. Sumathi, *Spectrochimica Acta Part A*, 96, 493 (2012). http://dx.doi.org/10.1016/j.saa.2012.05.053

28. Synthesis and studies on Cu(II), Co(II), Ni(II) complexes of Knoevenagel β-diketone Ligands, S. Sumathi, P. Tharmaraj, **C. D. Sheela**, C. Anitha, *Spectrochimica Acta Part A*, 97, 377 (2012). http://dx.doi.org/10.1016/j.saa.2012.06.018

29. Synthesis and characterization of VO(II), Co(II), Ni(II), Cu(II) and Zn(II) complexes of chromone based azo-linked Schiff base ligand, C. Anitha, **C. D. Sheela**, P. Tharmaraj, Johnson Raja, *Spectrochimica Acta Part A*, 98, 25 (2012). http://dx.doi.org/10.1016/j.saa.2012.08.022

30. Spectral, biological screening of metal chelates of chalcone based Schiff bases of N-(3-aminopropyl) imidazole, M.Kalanithi, M.Rajarajan, P.Tharmaraj, **C.D.Sheela,** *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy,* 87, 155-162, 2012.

31. Synthesis and studies on S-Triazine-based ligand and its metal complexes, R. Shanmugakala, P. Tharmaraj, **C. D. Sheela**, C. Anitha, *Int. J. Inorg. Chem.*, Article ID 301086, 7 pages (2012). http://dx.doi.org/10.1155/2012/301086

32. Synthesis, characterization, NLO study, and antimicrobial activities of metal complexes derived from 3-(3-(2-hydroxyphenyl)-3-oxoprop-1-enyl)- 4H-chromen-4-one and sulfanilamide; S. Sumathi; P. Tharmaraj; **C. D. Sheela;** R. Ebenezer; P. Saravana Bhava; *Journal of Coordination Chemistry*; Vol. 64; No. 10; 20 May 2011; 1673–1682. http://dx.doi.org/10.1080/00958972.2011.579116

33. Synthesis, spectral, bioactivity, and NLO properties of chalcone metal complexes; S. Sumathi; P. Tharmaraj; **C. D. Sheela**; R. Ebenezer; *Journal of Coordination Chemistry*; Vol. 64; No. 10; 20 May 2011; 1707–1717. http://dx.doi.org/10.1080/00958972.2011.580844

34. Synthesis, Spectroscopic, Biological screening, Corrosion inhibition and DNA activity of Metal complexes Derived from β-diketone and 4- aminoantipyrine. P. Tharmaraj, S.Sumathi, **C.D.Sheela**, R.Ebenezer; *International Journal of Inorganic Chemistry*; Article ID: 154326, 2011; Doi: http://dx.doi.org/10.1155/2011/154326

35. Synthesis, Characterization and biological activity of some transition metal complexes derived from novel hydrozone azo Schiff base ligand, P. Tharmaraj, C. Anitha, S. Sumathi, **C.D Sheela**; *Int J. of Inorg Chem;* Vol. 2011; Artic ID 493942,

2011; 8 pages. DOI: https://doi.org/10.1155/2011/493942

36. Spectral, NLO, fluorescence and biological activity of Knoevenagel condensate ligands and its metal(II) complexes, S. Sumathi; C. Anitha; P. Tharmaraj, **C. D. Sheela**; *Int J. of Inorg Chem;* Vol. 2011; Artic ID 154326, 2011; 8 pages. https://doi.org/10.1155/2011/154326
37. Synthesis, spectral characterization, and antimicrobial studies of metal complexes of the Schiff base derived from [4-amino-N-guanylbenzene sulfonamide] and salicylaldehyde, **C. D. Sheela**, C. Anitha, P. Tharmaraj and D. Kodimunthri, *Journal of Coordination Chemistry*, Vol. 63, No. 5, 10 March 2010, 884–893. http://dx.doi.org/10.1080/00958971003660416

38. Bis-(3,5-dimethyl-pyrazolyl-1-methyl)-(3-phosphanyl-propyl)-amine complexes of copper(II), nickel(II), and cobalt(II) P.Tharmaraj, D. Kodimunthiri and **C. D. Sheela**, P.Prakash, *J. Coor. Chem.*, 2009, 62, 1347. http://dx.doi.org/10.1080/00958970802546032

39. Synthesis, Spectral characterization and Antimicrobial Activity of Copper(II), Cobalt(II) and Nickel(II) complexes of 3-Formylchromoniminopropylsilatrane, P. Tharmaraj, D. Kodimunthiri, **C. D. Sheela**, C.S. Shanmuga Priya *J. Coor. Chem.*, 2009, 62, 2220. http://dx.doi.org/10.1080/00958970902783576

40. Catalytic and biological activity of transition metal Complexes of salicylaldiminopropyl phosphine, P.Tharmaraj, D. Kodimunthiri and **C. D. Sheela**, P.Prakash, *J. Coor. Chem.*, 2009, 62, 2883-2892. http://dx.doi.org/10.1080/00958970902934740

41. Synthesis, spectral studies and antibacterial activity of Cu(II), Co(II) and Ni(II) complexes of 1-(2-hydroxyphenyl)-3-phenyl-2-propen-1-one,N2-[(3,5-dimethyl-1H-pyrazo1yl)methyl]hydrazone, P. Tharmaraj, D. Kodimunthiri, **C. D. Sheela** and C.S. Shanmuga priya *J. Serb. Chem.*, Soc. 74 (8–9) 927–938 (2009). http://dx.doi.org/10.2298/JSC0909927T.

42. Synthesis and characterization of (N-N-bis-1-methyl-3,5-dimethyl pyrazolyl)-4-aminoacetophenone and its Cu(II), Co(II), Ni(II) and Fe(II) complexes. P. Tharmaraj, D. Kodimunthiri, **C. D. Sheela**, *SVC Research Journal*, 2008, 3, 46.

43. Studies on Schiff base complexes of Salicylaldehyde with sulphamethoxazole and their Antimicrobial activities. **C.D.Sheela**, A.Gomathi, S.Ravichandran and P.Tharmaraj. *Polish. J. Chemistry*, 2006, 80, 1781-1787

44. Cobalt(II) Nickel(II) and Copper(II) complexes of 1-Hydroxy-2-Naphthyl (4-x-styryl) Ketoneoxime, P. Tharmaraj, **C. D. Sheela** and C. Natarajan, *Asian J. Chem*., 2003, 15(3): 1709-1714.

45. Synthesis , spectral studies and reactivity of Ni(II), Cu(II) and Zn(II) mixed ligand complexes with 2-formyl, 2-acetyl and 2-benzoyl cyclohexanones and acetyl acetone C.Natarajan, **C.D.Sheela**, P.R.Athappan, R.Murugesan, *Synth. React. Inorg. Met. Org. Chem.*, 22(6) 827 (1992). http://dx.doi.org/10.1080/15533179208020248

46. Multidentate behaviour of 2-formyl cyclo hexanone Schiff bases C.Natarajan, **C.D.Sheela**, P.R.Athappan, *Indian Journal of Chemistry*, 30A, 357 (1991). http://nopr.niscair.res.in/handle/123456789/41882

47. Synthesis and study of Co(II) , Ni(II), Cu(II) and Zn(II) complexes of 2-formyl and 2-acetyl cyclohexanones C.Natarajan, **C.D.Sheela**, P.R.Athappan, *Indian Journal of Chemistry*, 29A, 357 (1990). http://nopr.niscair.res.in/handle/123456789/46384

Papers Presented in Conferences

1. Synthesis and studies of Copper(II), Cobalt(II), Zinc(II) and Manganese(II) complexes of 2'-hydroxychalcon imino propylsilatrane, National Seminar on Theoretical and Chemical Science, 22 & 23th Feb-2008, Annamalai University.
2. Synthesis and characterization of (N-N-bis-1-methyl-3,5-dimethylpyrazolyl)-4-aminoacetophenone and its Cu(II), Co(II), Ni(II) and Fe(II) complexes, National Level Conferences on Recent Advances in the Study of transition Metal Complexes,13 & 14th August-2008, V.H.N.S.N.College, Virudhunagar.
3. Synthesis and Studies on Salicyladiminopropyl phosphine and Their Cu(II), Co(II), Ni(II)complexes, National Seminar on Recent trends in Chemistry (ETC-2), 24 & 25th July-2008, C.P.A.College, Bodi.
4. Synthesis, Characterization and Biological activity of Complexes derived from 1-methyl-(3,5-dimethyl pyrazolyl)-[3-(2-hydroxyphenyl)-5phenyl]-pyrazolen, National Conference on Emerging trends in Chemical Research, 17 & 18th Oct-2008, Annamalai University.
5. Synthesis, spectral characterisation and antimicrobial studies of metal complexes of Schiff base derived from [4-amino-N-guanylbenzene sulfonamide] and salicylaldehyde, National Seminar On Emerging Trends in Chemistry [ETC-2] on July 24-25, 2008 at Cardamom Planters Association College, Bodinayakanur, Theni District.
6. Synthesis and Structural elucidation and biological activity of Salen-type transition complexes, National Seminar on Recent trends in Chemistry, 26 & 27th Feb-2009, J.A.College for Women, Periyakulam.

7. Synthesis and Studies on Formylchromoniminopropylphosphine and its Transition Metal Complexes, International Conference on Coordination & Organometallic Chemistry, 19 & 20th March 2009, Bharathiar University, Coimbatore.

8. Synthesis, Characterization and Antimicrobial Studies of Schiff Base Having a silane group and their Transition Metal Complexes, International Conference on Coordination & Organometallic Chemistry, 19 & 20th March 2009, Bharathiar University, Coimbatore.

9. Synthesis, spectral Characterization and biological activity of2-(2-amino-4-(furnyl-2-yl)-6H-1,3-oxazin-6-yl)phenol and its metal complexes, National Seminar on Modern Trends in Chemistry, Sep 24-25 2009, Thiagarajar College, Madurai.

10. Synthesis and characterization of Schiff base condensed Salcimine and its metal complexes, National Conferenece on Recent Trends in Chemistry, 18th & 19th Feb-2010, J.A.College for women, Periyakulam.

11. Synthesis and spectral characterization of metal complexes of novel Schiff base, National Conferenece on Recent Trends in Chemistry, 18th & 19th Feb-2010, J.A.College for women, Periyakulam.

12. Synthesis and spectral characterization and antimicrobial studies of metal complexes of Schiff base derived from [4-(choloro phenylazo)-2-hydroxy benzaldehyde] and Salicyl hydrazide, National Conferenece on Recent Trends in Chemistry, 18th & 19th Feb-2010, J.A.College for women, Periyakulam.

13. Synthesis and studies on N,N bis(1,4)-1,5-diphenylpenta-1,4-dien-3-ylidine)ethane-1,2-diamine and their Transition metal complexes, National Conferenece on Recent Trends in Chemistry, 18th & 19th Feb-2010, J.A.College for women, Periyakulam.

14. Synthesis and spectral studies on Transition metal complexes of Salicyladimino-1-propylimidazole, National conference on Recent advances in Electro analytical techniques, Feb-25-26 2010, Gandhigram rural Institute, Gandhigram.

15. Synthesis and characterization of (N-N-bis-1-methyl-3,5-dimethylpyrazolyl)-4-aminoacetophenone and its Cu(II), Co(II), Ni(II) and Fe(II) complexes, National Level Conferences on Recent Advances in the Study of transition Metal Complexes,13 & 14th August-2008, V.H.N.S.N.College, Virudhunagar.

16. Synthesis, Spectroscopic Characterization and Biological activity of Metal Complexes derived from Schiffbase and 4-Amino-2,3-Dimethyl-1-Phenyl-3-2-Pyrazolin-5-one, National Seminar on Emerging Trends in Chemistry, Sep 23-24 2010, CPA College, Bodi.

17. Studies on transition metal complexes of 2-((2E,6E)-1-(4-(1H-imidazol-1-yl)butylimino)-3-phenylallyl) Phenol, National Seminar on Emerging Trends in Chemistry, Sep 23-24 2010, CPA College, Bodi.

18. Synthesis and studies on novel chalcone based metal Complexes, National Seminar on Emerging Trends in Chemistry, Sep 23-24 2010, CPA College, Bodi.

19. Single pot synthesis of Silver nano particles using silver diethyldithiocarbamate complexes, National Seminar on Emerging Trends in NanoScience, Dec 21-22 2010, Sri Paramakalyani College, Alwarkurichi.

20. Synthesis, Spectroscopic Characterization, Biological Screening, Corrosion Inhibition and DNA Activity of Transition Metal Complexes Derived From diketone and 4-aminoantipyrine, Chennai Chemistry Conference-2011, 11th -13th Feb 2011, IIT Madras, Madras.

21. Spectral, NLO, fluorescence and biological activity of Knoevenagel condensate of β-diketone ligands and its metal(II) complexes. National seminar on Recent advances in applications of spectroscopy, 25 & 26th August 2011. Fatima College, Madurai.

22. Transition metal complexes of 4-oxo-4H-1-bezopyran-3-carboxaldehyde-0-hydroxybenzoylhydrazone: their preparation, characterization and antimicrobial activity, National seminar on Recent advances in applications of spectroscopy, 25 & 26th August 2011. Fatima College, Madurai.

23. Synthesis and Characterization of metal nanoparticles using thiol containing ligands for various potential applications, 2nd International Conference on Advanced Nanomaterials and Nanotechnology 2011, 8th -10th Dec 2011, IIT Guwahati, Guwahati.

24. Synthesis, spectral characterization, antimicrobial, NLO, SEM and DNA studies of azo Schiff base and its metal(II) complexes, International Symposium On Modern trends in inorganic Chemistry MTIC-XIV on Dec 10-13 2011, University of Hyderabad, Hyderabad.

25. Synthesis and Characterization of metal nanoparticles for various potential applications using sulphur containing ligands, International Conference on Nanoscience and Technology 2012, 20th -23rd Jan 2012, Taj Krishna, Hyderabad.

26. Synthesis, characterization, biological and NLO studies of Vo(II), Co(II), Ni(II), Cu(II), Zn(II) complexes of azo Schiff base ligand, National Symposium in Chemistry on Feb 3-5, 2012 at CSIR-NIIST, Trivandrum.

27. Studies of Triazine Based Pyrazolyl Ligand and its Complexes, National conference on Emerging Trends in Chemistry, 2012, 11th Jan' 2012, Bishop Heber College, Trichy.

28. Amperometry detection of Glucose level in Blood samples based on CuO nanofibres modified GCE, National Convention of Electrochemists, 2012, 14-15th Sep' 2012, B.S. Abdur Rahman University, Chennai.

29. Synthesis, Characterization And Potential Applications Of Phosphazene Based Metal Complexes, National Seminar on Emerging trends in chemistry, 2012, 4 th -5 th Oct 2012, CPA College, Bodi.

30. Synthesis, spectral, thermal, fluorescence, NLO and biological activity of triazine metal complexes, National Seminar on Emerging trends in chemistry, 2012, 4 th -5 th Oct 2012, CPA College, Bodi.

31. In vivo Neuroprotectivity, Anticonvulsant and Anti-inflammatory studies on Triazine based ligand and its metal complexes in mice, National Seminar on Emerging trends in chemistry, 2012, 4 th -5 th Oct 2012, CPA College, Bodi.

32. Green Synthesis and Characterization of metal nanoparticles from sulphur containing ligands for catalytic, optical and anti-tumor studies, 2nd International Indo German Symposium on Green Chemistry and Catalysis for sustainable Development 2012, 29^{th} -31^{st} Oct 2012, ICT, Mumbai.

33. Spectral, fluorescence, NLO and biological activity of Cu(II), Co(II), Ni(II) and Zn(II) complexes of triazine, International conference on biological inorganic chemistry, 20th -22ndFeb2013, Periyar University, Salem.

34. Synthesis, characterization and studies of hydroxyl and amino substituted cyclotriphosphazene and its metal(II) complexes, International conference on biological inorganic chemistry, 20th -22ndFeb2013, Periyar University, Salem.

35. Spectroscopic, NLO and photophysical properties of triazine derivatives, International conference on Recent Advances in textile and electrochemical sciences, 21^{st} -23^{rd} Mar2013, Alagappa University, Karaikudi.

36. Studies on new Cu(II) complexes of 1,3,5-triazine based ligands, RTAC- 2013, ANJAC, Sivakasi. National seminar Bodinayakkanur, Emerging Trends in Chemistry – 19.09.14

37. Synthesis, Characterization and biological screening of metal complexes of Schiff base derived from s-triazine based ligand, (RTC-6)-08th & 09 th January -2015, National Seminar - Jeyaraj Annapackiam college for women-Periakulam.

38. Spectral and antimicrobial studies of chromone based Schiff base Metal (II) complexes, (FAC-2015) 26^{th} & 27^{th} Feb -2015, National Seminar- Thiagarajar college Madurai-09.

39. Spectral, and Antimicrobial studies on Metal (II) Complexes of 4-((4-chlorophenyl)diazenyl)-2-(pyridylimino)phenol, (FAC-2015) 26^{th} & 27^{th} Feb- 2015, National Seminar- Thiagarajar college Madurai-09.

40. A facile synthesis of novel (3,3'-(6-phenyl-1,3,5-triazine-2,4-diyl)bis(azan-1-yl-1-ylidene)bis(methan-1-yl-1-ylidene)bis(4H-chromen-4-one)), (FAC-2015) 26^{th} & 27^{th} Feb- 2015,National Seminar- Thiagarajar college Madurai-09.

41. Studies on Schiff base derived from 2-thiophene carboxaldehyde and 2-(4-chloro phenyl amino)-4,6-dihydrazenyl-1,3,5 triazine and its transition metal (II)complexes, (FAC-2015) 26th & 27th Feb- 2015, National Seminar - Thiagarajar college Madurai-09.

42. Metal complexes of Triazine based ligands and its biological importance, (FAC-2015) 26th & 27th Feb- 2015, National Seminar- Thiagarajar college Madurai-09.

43. Studies on novel triazine based ligand and its metal complexes, RDBICM-2015 28th & 29th Augest-2015, SERB Sponsored National Seminar Mohammed Sathak Engineering College-Kilakarai-Ramanathapuram.

44. Synthesis and characterization of novel chromone based N_3O_2 ligand and its metal(II)complexes for NLO and antioxidant studies, ICRAMCS-2015 14 th & 15 th December-2015, International Seminar at Gandhigram Rural institute-Gandhigram-624302.

45. Spectroscopic, NLO and Biological Evaluation of Metal(ii) Complexes of Conjugated Heterocyclic Ligand, ICRAMCS-2015 14th &15th Dec-2015, International conference at Gandhigram Rural Institute-Deemed University-Gandhigram-624302.

46. Spectral, Biological Screening and NLO studies of Metal chelates of Triazine based conjugated ligand, ICNEECS-15 Dec 11th &12th 2014,Internationlal conference at Madurai Kamaraj University Madurai-625021.

47. Synthesis, Characterization, Catalytic activity of Novel schiff base metal(II) complexes derived from Quinoxaline-2-carboxaldehyde and N-(3-aminopropyl)imidazole – Solvatochromism, ICCRE-2016 25th & 26th Feb-2016, International Seminar at Bishop Heber college-Trichy-620017

48. Synthesis and spectral studies on metal complexes of azo based conjugated ligand and non linear optical properties, NCSM-16 Feb 23rd &24th 2016, National conference at Lady Doak College Madurai.

49. Spectral, NLO, Fluorescence, Anti-inflammatory and Biological screening of Thiadiazole based conjugated Ligand and their Metal(II) complexes"FACTs-16 March 21st, 22nd &23rd 2016,International conference at Alagappa University, Karaikudi-630 003.

50. J.Jone Celestina, Dr.P.Tharmaraj, C.D.Sheela Presented a paper in 23rd National symposium organised by CRSI in Pr.Ravishankar Shukla University, Chattisgarh on 1-4 of February 2018

51. Dr.P.Tharmaraj, J.Jone Celestina, C.D. Sheela presented a paper in National conference organised by Department of Chemistry, Jayaraj Annapackiam College, Periyakulam on 27.01.2018

52. J.Jone Celestina, Dr.P.Tharmaraj, C.D.Sheela presented a paper in International conference organised by Department of Chemistry The American College, Madurai on 17,18,19 of July 2018.

53. L.Alphonse, Dr.P. Tharmaraj and C.D Sheela presented a paper in Frontiers Areas In Chemical Technologies (FACTs- 2019) organized by Department of Industrial Chemistry, Alagappa University at Karaikudi on 25 and 26 July 2019.

54. J.Jone Celestina, Dr.P.Tharmaraj, A.Jeevika and C.D Sheela presented a paper in Frontiers Areas In Chemical Technologies (FACTs- 2019) organized by Department of Industrial Chemistry, Alagappa University at Karaikudi on 25 and 26 July 2019.

55. M.Priyadharsani, Dr.P. Tharmaraj and C.D Sheela presented a paper in Frontiers Areas In Chemical Technologies (FACTs-2019) organized by Department of Industrial Chemistry, Alagappa University at Karaikudi on 25 and 26 July 2019.

56. V.Aruldeepa, Dr.P.Tharmaraj and C.D.Sheela presented a paper in Frontiers Areas In Chemical Technologies (FACTs-2019) organized by Department of Industrial Chemistry, Alagappa University at Karaikudi on 25 and 26 July 2019.