

*Dr.R.THIRUNEELAKANDAN*  
*PROFESSOR*

**Address** : DEPARTMENT OF CHEMISTRY  
UNIVERSITY COLLEGE OF ENGINEERING  
BIT CAMPUS, ANNA UNIVERSITY  
TIRUCHIRAPPALLI – 620 024.

**Date of Birth** : 14.05.1974

**Date of Joining** : 03.03.2003

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**Research Area:**

- Coordination Chemistry
- X-ray Crystal Structure Determination
- Nano Catalysts
- Environmental Chemistry
- ORCID ID: <https://orcid.org/0000-0001-9136-0789>

**Educational Qualifications:**

- **Doctor of Philosophy (Ph.D.)** in Chemistry, **Annamalai University**, Annamalai Nagar Tamil Nadu, **(July-2005)**
- Thesis Title: **“Synthesis, Spectral and Single Crystal Structural Studies on Some Simple and Mixed Ligand complexes of Divalent Group X Planar Dithiocarbamates with Mono, Bidentate Phosphines and Isothiocyanate”.**
- Research Supervisor: **Prof. K. RAMALINGAM, M.Sc., Ph.D.**
- **Master of Philosophy (M.Phil.)** in Chemistry, **Annamalai University**, Annamalai Nagar, Tamil Nadu, **(December-1999)**
- Thesis Title: **“Studies on Simple and Mixed Ligand Complexes of Ni(II), Cu(II) with Ligands containing S, P Ligating Centres and Related BVS Calculations”.**
- Research Supervisor: **Prof. K. RAMALINGAM, M.Sc., Ph.D.**

- **Master of Science (M.Sc.)** in Chemistry, Ramakrishna Mission Vivekananda College, Mylapore, Chennai, **University of Madras, (May-1997)**.
- **Bachelor of Science (B.Sc.)** in Chemistry, Govt. Arts College, C.Mutlur, Chidambaram, **University of Madras, (May-1994)**.

### **Professional Experience:**

- **Professor**, Department of Chemistry, University College of Engineering, Bharathidasan Institute of Technology (BIT Campus), **Anna University**, Tiruchirappalli from 14.08.2018 to till date.
- **Associate Professor**, Department of Chemistry, University College of Engineering, Bharathidasan Institute of Technology (BIT Campus), **Anna University**, Tiruchirappalli from 15.09.2012 to 13.08.2018.
- **Assistant Professor**, Department of Chemistry, Bharathidasan Institute of Technology (BIT Campus), **Anna University of Technology**, Tiruchirappalli from 15.09.2009 to 14.09.2012.
- **Senior Lecturer**, Department of Chemistry, Bharathidasan Institute of Technology (BIT Campus), **Anna University**, Tiruchirappalli from 03.03.2007 to 14.09.2009.
- **Lecturer**, Department of Chemistry, School of Engineering and Technology, **Bharathidasan University**, Tiruchirappalli from 03.03.2003 to 02.03.2007.

### **Awards Received:**

- Awarded in **National Eligibility Test (NET) (Lectureship only)** in June **1999** Conducted by Council of Scientific and Industrial Research (**CSIR**), New Delhi, India.
- Qualified in **State Level Educational Test (SLET)** in November **1999** Conducted by Bharathidasan University Tiruchirappalli-620 024.
- Qualified in **National Eligibility Test (NET) (JRF & Lectureship)** in December **1999** Conducted by Council of Scientific and Industrial Research (**CSIR**), New Delhi, India.

### **Academic Responsibilities at University:**

<b>S.No.</b>	<b>Position Held</b>	<b>Duration</b>	
		<b>From</b>	<b>To</b>
<b>1</b>	<b>Head of the Department</b>	<b>03.03.2003</b>	<b>17.12.2019</b>
<b>2</b>	<b>Deputy Controller of Examinations,</b> Bharathidasan Institute of Technology (Autonomous) Examinations, Bharathidasan University	<b>01.06.2006</b>	<b>31.06.2007</b>
<b>3</b>	<b>First Year Coordinator</b>	<b>01.08.2012</b>	<b>Till Date</b>
<b>4</b>	<b>Chairman - Anti Ragging Committee</b>	<b>01.06.2019</b>	<b>Till date</b>

### **Additional Responsibilities at University:**

1. **Member, SC-ST Cell**, during **2010-2012** in Anna University, Trichy.
2. **Physical verification officer** of the stock of the University Departments **2012-2013**.
3. **Member, Verification Committee**- Daily wages-Refix their designation and wages as per norms of Anna university, Chennai. **2013**.
4. **Member, Hostel Committee** – Hostel related issues and Purchases. **(2013-2014)**.
5. **Member, NBA Centre Pool Committee** in Anna University, BIT Campus, Trichy **(2013-2016)**.
6. **Member** – Anna University Affiliation Inspection committee **2014-2015**.
7. **Coordinator**- Graduation day committee from **2012 to till date**.
8. **Chairman, Chief Examiner, Examiner, Squad Member, AUR** for Anna University Examinations.
9. **Chief Superintendent** – Anna University Theory Examinations, UCE, BIT Campus, Anna University, Trichy-24, Odd & Even Semester **2016 -2017**.

### **Professional Activities:**

- **Coordinator** - Two days **Career Guidance Programme for first year UG students during** 12.11.2013 and 13.11.2013 at Anna University, BIT Campus, Tiruchirappalli.
- **Convener** - TEQIP II Sponsored **Faculty Development Programme on Recent Advances and Developments in Chemistry (RADIC'13) held from 28.11.2013 to 04.12.2013** at Department of Chemistry, Anna University, BIT Campus, Tiruchirappalli.
- **Convener** - TEQIP II Sponsored **Lecture Workshop on Emerging Trends in Chemistry (ETRIC'13)** held on 10<sup>th</sup>& 11<sup>th</sup> December 2013 at Department of Chemistry, Anna University, BIT Campus, Tiruchirappalli.
- **Coordinator** - TEQIP II Sponsored **Two week Pedagogical Training Programme to the faculty members of BIT**, Anna University, Tiruchirappalli in collaboration with NITTTR, Chennai from 09.12.2013 to 23.12.2013 held at Anna University, BIT Campus, Tiruchirappalli.
- **Coordinator** - TEQIP II Sponsored **Soft Skill Training Programme to the First year UG Students of BIT Campus** held at Anna University, BIT Campus, Tiruchirappalli from 04.03.2014 to 07.03.2014
- **Convener** - One day **Young Mind Awareness programme for the celebration of International Day for the Preservation of the Ozone day-2014** held at Anna University, BIT Campus, Tiruchirappalli on 16<sup>th</sup> Sep 2014.
- **Coordinator** - TEQIP II Sponsored two day **Student Training Programme on "Waste Management – Trash to Treasure"** held at Anna University, BIT Campus, Tiruchirappalli on 10<sup>th</sup>&11<sup>th</sup> November, 2014
- **Coordinator** - TEQIP II Sponsored two days **International Conference on Chemistry and Materials (ICCM 2014)** held at Department of Chemistry, Anna University, BIT Campus, Tiruchirappalli on 14<sup>th</sup>& 15<sup>th</sup> November 2014.
- **Convener** - TEQIP II Sponsored **Two weeks Faculty Development Programme on Frontiers Research in Applied Sciences (FRAS 2015)** held at Department of Chemistry, Anna University, BIT Campus, Tiruchirappalli from 03.06.2015 to 16.06.2015.
- **Convener** - TEQIP II Sponsored **two days Lecture Workshop on Chemistry for Sustainable Green Environment (CHES GREEN'16)** held at Department of Chemistry, Anna University, BIT Campus, Tiruchirappalli from on 11<sup>th</sup> & 12<sup>th</sup> March **2016**.

- **Coordinator** - TEQIP-II Sponsored **Two Weeks Faculty Development Programme on Multi-disciplinary Approaches on Chemical Sciences (MACS'16)** held at Department of Chemistry, Anna University, BIT Campus, Tiruchirappalli from 18<sup>th</sup> July to 31<sup>st</sup> July **2016**.
- **Organizing Secretary** - TEQIP II Sponsored International Conference on Advances in Biological, Chemical and Physical Sciences (ABCPS-2017) held at BIT Campus, Anna University, Tiruchirappalli 13<sup>th</sup> to 15<sup>th</sup> March **2017**.
- **Doctoral Committee member** – Ph.D. scholars, Anna University, Chennai
- **Question paper setter** - Theory Examinations of KSR College of Engineering and Technology (AUT), Tiruchengode
- **External Examiner** – Valuation of theory examinations at Annamalai University, Chidambaram.
- **Expert Member** – Ph.D. viva voce examinations at St. Joseph College, Jamal Mohamed College, Periyar EVR College-Trichy, A.V.V.Sri Puspham College-Poondi, Rajah Serfoji Govt. College-Thanjavur, Govt.Arts College-Ariyalur, Govt.Arts College for Women-Kumbakonum, Govt. Arts College-Karur, Thiru V.K. College-Thiruvarur affiliated to Bharathidasan University, Tiruchirappalli.
- **University Representative** – Bharathidasan University – Board of studies for UG & PG Chemistry, Cauvery College for Women (Autonomous), Annamalai nagar, Tiruchirappalli from May 2019 to May 2022.

#### **Membership of Scientific and Professional Societies:**

- **Life member** - Indian Society of Chemists and Biologists (**ISCB**), **CDRI, Lucknow**.
- **Life member** - Indian Council of Chemists (**ICC**), Agra.
- **Life member** - Indian Society of Technical Education (ISTE), New Delhi

#### **Fellowships and Grants:**

- **Junior Research Fellowship** during 01.07.2000 – 30.06.2002 from CSIR(NET), New Delhi, India.
- **Senior Research Fellowship** during 01.07.2002 – 28.02.2003 from CSIR, New Delhi, India.

**Completed PG Projects: 02**

S.No.	Degree	Name of the student with Reg.No.	Title of the Projects	Year of Completion
1	M.Tech.	Mr.S.Krishnamoorthy 810011523009	Synthesis, Characterization and catalytic application of RuO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub>	July 2013
2	M.Tech.	Mr.M.Abdul Wahab Jonny (810011523001)	Synthesis and characterization of Nanostructured Li(Ni <sub>0.6</sub> Co <sub>0.10</sub> Mn <sub>0.075</sub> )O <sub>2</sub> as cathode materials for lithium ion batteries	July 2013

**List of Candidate completed PhD under my guidance:**

S.No.	Name of the student with Reg. No.	Title of the Projects	Date of Completion
1.	<b>G.Subbulakshmi (20105042007)</b>	Renovation of Solid Waste using Vermicomposting Technology and their Impact on Plant Growth	14.08.2018
2.	<b>S.Velanganni (1214779787)</b>	Development of CdS/ZnO, Bi <sub>2</sub> S <sub>3</sub> /ZnO, Bi <sub>2</sub> O <sub>3</sub> /ZnO Hetero-junction Thin Layers by SILAR and CBD methods for Photocatalytic Activity	20.12.2018
3.	<b>E.Anuja (20115042002)</b>	Preparation and effect of complexing agents on FeCuS <sub>2</sub> and ZnCuS <sub>2</sub> thin films by chemical bath deposition method for photo response applications	26.07.2019
4.	<b>G.D.GAYATHRI (2011S5012004)</b>	Preparation and effect of Complexing Agents on Some Ternary Thin Films by Chemical Bath Deposition Method for Photocatalytic Degradation of Dye Molecules	Submitted on 19.07.2019
5.	<b>P.Nancy Dayana (1324759162)</b>	Solution synthesis of nanoparticles of quaternary sulfides	Doing
6.	<b>S.Krishnamoorthy (1517559767)</b>	Synthesize and characterization of metal oxide Nanoparticles for lithium ion batteries	Doing

**List of Seminar / Short Term Course / FDP/ Workshop attended: (Within India)**

- ❖ **UGC Sponsored Orientation Course** at Academic Staff College, Bharathidasan University, Tiruchirapalli-24, from 30.04.2005 to 27.05.2005.
- ❖ **UGC Sponsored State Level Seminar on NMR Applications and Energy Materials** organized by PG and Research Department of Chemistry, Rajah Serfoji Government College(Autonomous), Thanjavur, Tamil Nadu, 21<sup>st</sup> Feb' **2011**.
- ❖ **Awareness programme for Teachers on Heuristic Approach in Teaching**, Anna University of Technology, Trichy, 29<sup>th</sup> March **2011**.
- ❖ TEQIP II Sponsored **Faculty Development Programme on Teaching Learning Methodologies** organized by the Teaching Learning Centre, CEE, IIT, Madras from 16<sup>th</sup> to 18<sup>th</sup> October **2013**.
- ❖ TEQIP II Sponsored one day **Workshop to share experiences and good practices on improving transition rate of students** at Government College of Technology, Coimbatore on 28<sup>th</sup> January **2014**.
- ❖ TEQIP II Sponsored **Academic Leadership Programme**, conducted by Indian Institute of Management Tiruchirappalli (IIM-T), Chennai Centre, held from 9<sup>th</sup> to 13<sup>th</sup> February, **2015**.
- ❖ TEQIP II Sponsored two weeks **Faculty Development Programme on Nano Technology Applications in Engineering and Technology (NAET'15)** conducted by Department of Petrochemical Technology, Anna University, BIT Campus, Trichy held from 06<sup>th</sup> May 2015 to 19<sup>th</sup> May **2015**.
- ❖ TEQIP II Sponsored two weeks **Faculty Development Programme on Advanced Research in Materials for Engineering and Technological Applications (ARMETA-2015)** conducted by Department of Physics, Anna University, BIT Campus, Trichy held from 17<sup>th</sup> July 2015 to 31<sup>th</sup> July **2015**.



### **International Conferences Participated:**

- ❖ G.Subbulakshmi, **R.Thiruneelakandan**, Management of cashew apple waste by vermicomposting using Earthworm *Eisenia foetida* in cuddalore district, Tamilnadu, *International Conference on Green Technology for Environmental Pollution Prevention and Control (ICGTEPC-2014)*, held at NIT, Tiruchirappalli on 27<sup>th</sup> to 29<sup>th</sup> September **2014**.
- ❖ G.Subbulakshmi, **R.Thiruneelakandan**, Pollution Status of Waste (Heavy metals) in the Sediments of Uppanar River of Cuddalore District, Tamilnadu, India, *2<sup>nd</sup> International Conference on Engineering Technology and Science*, Muthayammal College of Engineering, Rasipuram, Tamilnadu, 5<sup>th</sup> & 6<sup>th</sup> March, **2015**.

### **Publications :**

#### **a. Books:**

Text Book of Engineering Chemistry-I for Tamil Medium B.E. Civil & Mechanical students, Published by Anna University of Technology, Tiruchirappalli-620 024.

#### **b. International Journals:**

- ❖ [Steric and Electronic Effects of Chelating Phosphines: Synthesis, Spectral, and Single Crystal X-Ray Structural Studies on \[1,3-Bis\(diphenylphosphino-k,P,P'\) propane\]\(diisopropyldithiocarbamate\)nickel\(II\)Perchlorate and \[1,3-Bis\(diphenyl phosphino-k,P,P'\) propane\]\(piperidinecarbodithioato\)nickel\(II\) Perchlorate](#)  
A.Manohar, K.Ramalingam, **R.Thiruneelakandan**, G.Bocelli, L.Righi, **Zeitschrift für anorganische und allgemeine Chemie**, **2001**, vol. 627, no. 5, pp. 1103-1108, DOI:10.1002/1521-3749(200105)627:5<1103::AID-ZAAC1103>3.0.CO;2-8, **Impact Factor: 1.337**
- ❖ [X-Ray Photoelectron Spectral Studies on Planar NiS<sub>4</sub> and NiS<sub>2</sub>P<sub>2</sub> Chromophores. Single Crystal X-Ray Structural Study on \[1,4-Bis\(diphenylphosphino-k,P,P'\)butane\]\(piperidinecarbodithioato-S,S'\)Nickel \(II\) Perchlorate](#)  
**R.Thiruneelakandan**, A.Manohar, K.Ramalingam, G.Bocelli, L.Righi, **Zeitschrift für anorganische und allgemeine Chemie**,



2002, vol. 628, no. 3, pp. 685-689.

DOI:10.1002/1521-3749(200203)628:3<685::AID-ZAAC685>3.0.CO;2-D,

**Impact Factor: 1.337**

- ❖ [Synthesis, Spectral, Cyclic Voltammetric Studies, and Single Crystal X-Ray Structure Determination of the Planar NiS<sub>2</sub>P<sub>2</sub>, NiS<sub>2</sub>PN, and NiS<sub>2</sub>PC Chromophores](#)

**R.Thiruneelakandan**, K.Ramalingam, G.Bocelli, L.Righi,  
**Zeitschrift für anorganische und allgemeine Chemie**, 2005,  
vol. 631, no. 1, pp. 187-193. DOI: 10.1002/zaac.200400245,

**Impact Factor: 1.337**

- ❖ [N-\(2-Hydroxyethyl\)-N-methyldithiocarbamate Complexes of Nickel\(II\) with Phosphorus Donor Ligands](#)

A.Manohar, K.Ramalingam, **R.Thiruneelakandan**, G.Bocelli, L.Righi,  
**Zeitschrift für anorganische und allgemeine Chemie**, 2006,  
vol. 632, no. 3, pp. 461-464. DOI: 10.1002/zaac.200500282.

**Impact Factor: 1.337**

- ❖ [Trans influences of Cl<sup>-</sup>, NCO<sup>-</sup> and NCS<sup>-</sup> donors on planar NiS<sub>2</sub>PN\(CO\), NiS<sub>2</sub>PN\(CS\), NiS<sub>2</sub>PCl and NiS<sub>2</sub>P<sub>2</sub> chromophores: synthesis, NMR spectral and single crystal X-ray structural studies](#)

R.Baskaran, K.Ramalingam, **R.Thiruneelakandan**, B.A.Prakasam,  
G.Bocelli, A.Cantoni, **Journal of Coordination Chemistry**, 2009,  
vol. 62, no. 7, pp.1076-1085. DOI:10.1080/00958970802483624,

**Impact Factor: 1.685**

- ❖ [Vermicomposting is valiant in vandalizing the waste material,](#)

G.Subbulakshmi, **R.Thiruneelakandan**,

International Journal of Plant, Animal and Environmental Science,  
**2011**, vol.1, Issue 3, pp.134-141.

**Impact Factor: 1.6**

- ❖ [Steric distortion of planar NiP<sub>2</sub>N<sub>2</sub> chromophores: a spectral, cyclic voltammetric and single crystal X-ray structural study](#)

K.Ramalingam, **R.Thiruneelakandan**, G.Bocelli and L.Righi,  
**Transition Metal Chemistry**, 2012,

vol. 37, no. 3, pp. 265-270, DOI:10.1007/s11243-012-9584-5,

**Impact Factor: 1.016**

- ❖ [Trans influence of triphenylphosphines and pseudohalogens on Ni-S bonds: Synthesis, spectral and single crystal X-ray structural studies on NiS<sub>2</sub>PN and NiS<sub>2</sub>PC chromophores](#)  
 K.Ramalingam, **R.Thiruneelakandan**, G.Bocelli and L.Righi,  
**Central European Journal Chemistry, 2012**,  
 vol. 10, no. 4, pp. 1199-1207. DOI: 10.2478/s11532-012-0041-2,  
**Impact Factor: 1.329**
- ❖ [Synthesis, spectral Investigation, Reinforced Bio-potential Enhancement and Structure Property Correlation of Mixed Ligand Pyridine-4-carbaldehyde Metal Complexes](#)  
 C.Surendra Dilip, G.Senguttuvan, V.Sivakumar, K.Manikandan,  
**R.Thiruneelakandan**, **Asian Journal of Chemistry, 2013**,  
 25(Supplementary Issue), pp. S73-S75. **Impact Factor: 0.253**
- ❖ [Synthesis, Spectroscopic Characterisation, and Biopotential and DNA Cleavage Applications of Mixed Ligand 4-N,N-Dimethylaminopyridine Metal Complexes](#)  
 C.Surendradilip, K.Manikandan, D.Rajalaxmi (a) Subahashini and  
**R.Thiruneelakandan**, **Journal of Chemistry, 2013**,  
 vol.2013, article ID 195074, 16 pages.  
<http://dx.doi.org/10.1155/2013/195074>, **Impact Factor: 0.484**
- ❖ [V<sub>2</sub>O<sub>5</sub> Anchored RuO<sub>2</sub>: An Efficient Nanocatalyst for Aerial Oxidation of Alcohols](#)  
 S.Ganesh Babu, S.Krishnamoorthi, **R.Thiruneelakandan** and  
 R.Karvembu, **Catalysis Letter, 2014**,  
 vol.144, no.7, pp.1245 -1252, DOI 10.1007/s10562-014-1262-0  
**Impact Factor: 2.244**
- ❖ [Recuperating Waste into Valuable Organic Manure Using "Environment's Plowman,](#)  
**R.Thiruneelakandan** and G.Subbulakshmi,  
**Bioscience and Biotechnology Research Asia, 2014**,  
 vol. 11, no. 2, pp.1019-1023. ISSN: 0973-1245
- ❖ [Escalating Rice Invention Through System of Rice Intensification Using Organic Manure](#)  
**R.Thiruneelakandan**, G.Subbulakshmi,  
**International Journal of Agriculture and Food Science, 2014**,  
 vol. 4, no. 2, pp. 43-50. ISSN 2249-8516
- ❖ [Renovation of Horticultural Waste Into Organic Fertilizer by Vermicomposting Technology: Approach for Solid Waste Management](#)  
 G.Subbulakshmi, **R.Thiruneelakandan**,

*International Journal of Environmental and Sustainable Development*, 2018,  
vol.17, nos.2/3, pp. 162-176. **Impact Factor: 0.41**

- ❖ [Nanostructure CdS/ZnO heterojunction configuration for photocatalytic degradation of Methylene blue](#)  
S.Velanganni, S.Pravinraj, P.Immanuel, **R.Thiruneelakandan**,  
*Physica B: Condensed Matter*, 2018,  
vol. 534, pp. 56–62. <https://doi.org/10.1016/j.physb.2018.01.027>  
**Impact Factor: 1.386**
- ❖ [Effect of complexing agents: Investigations on structural, morphological, topographical and optical analysis of copper iron sulphide thin films deposited by chemical bath deposition method](#)  
E.Anuja, **R.Thiruneelakandan**, K.Manikandan,  
*Journal of Material Science: Materials in Electronics*, 2018,  
vol. 29, no. 12, pp. 9886-9892.  
<https://doi.org/10.1007/s10854-018-9030-3> **Impact Factor: 2.324**
- ❖ [Nanostructured ZnO coated Bi<sub>2</sub>S<sub>3</sub> thin films: Enhanced photocatalytic degradation of methylene blue dye](#)  
S.Velanganni, A.Manikandan, J.Joseph Prince, C.Neela Mohan,  
**R.Thiruneelakandan**  
*Physica B: Condensed Matter*, 2018, 545, 383-389.  
<https://doi.org/10.1016/j.physb.2018.07.005> **Impact Factor: 1.386**
- ❖ [Preparation and effect of complexing agents on ternary FeZnS<sub>2</sub> thin films by chemical bath deposition method for photo catalytic degradation of dye molecules](#),  
G.D.Gayathri, K.Manikandan, **R.Thiruneelakandan**,  
*Journal of Material Science: Materials in Electronics*, 2019,  
vol. 30, no. 6, pp. 6023–6036,  
<https://doi.org/10.1007/s10854-019-00903-2> **Impact Factor: 2.324**

**c. National Journals:**

- ❖ [Synthesis and reactivity of some mixed ligand complexes of Ni\(II\) involving dithiocarbamates and hard bases](#),  
N. Rajendiran, **R. Thiruneelakandan**, K. Ramalingam,  
*Indian Journal of Chemistry*, 2001, 40A, 1103.  
**Impact Factor: 0.920**
- ❖ [Impact of Modernization of Agricultural Practices on the Mineral Wealth of Ground Water in peravurani Taluk of Tamil Nadu, India](#)

M.Chithravel, C.Surendra Dilip, **R.Thiruneelakandan**, K.Sithick Ali,  
**International Journal of Chemical Studies**, 2013; vol. 1, no. 3,  
pp. 132-141. **Impact Factor: 0.565**

- ❖ [Impact of Modernisation of Agricultural Practices on the mineral wealth of Ground Water at Orathanadu Taluk of Tamil Nadu, India](#)  
M.Chithravel, C.Surendra Dilip, **R.Thiruneelakandan**, K.Sithick Ali,  
*IRACST – Engineering Science and Technology: An International Journal (ESTIJ)*, ISSN: 2250-3498, April **2013**, Vol.3, No.2, pp.268-275.
- ❖ [Vermicomposting: A Superlative For Soil, Plant, And Environment](#)  
**R.Thiruneelakandan**, G.Subbulakshmi, **IJRSET**, February **2014**, Vol. 3, Special Issue 1, pp.930 – 938. **ISSN: 2347 - 6710**
- ❖ [SRI is the answer for food security and mitigation of water irrigation](#),  
**R.Thiruneelakandan**, G.Subbulakshmi, **J.Bio.Innov.**, **2014**, 3(3),  
pp:176-181.
- ❖ [Vermiculturing Can Boost Agricultural Production without Agrochemicals](#),  
**R.Thiruneelakandan** and G.Subbulakshmi  
**JECET**, December 2013 – February 2014; Vol.3.No.1, 088-095.
- ❖ [Chemical Nutrient Analysis of Vermicompost and Their Effect on the Growth of SRI Rice Cultivation](#),  
**R.Thiruneelakandan** and S.Subbulakshmi, **IJRSET**, **June 2015**, Vol. 4, Issue 6, 4382 – 4388, DOI:10.15680/IJRSET.2015.0406115
- ❖ [Potential of the System of Rice Intensification \(Sri\) for Cuddalore District](#)  
**R.Thiruneelakandan** and G.Subbulakshmi, **Chem. Sci. Rev. Lett.** Vol. 3, Issue 12, **2014** (October – December) Article CS19204510
- ❖ [Effect of Complexing Agent: Comparative study of copper based Ternary thin films by chemical bath deposition Technique](#),  
E.Anuja, **R.Thiruneelakandan** & Manikandan, K 2019, Journal of Indian Chemical Society, vol.96, no.1, pp.40-44.

## Conferences

### a. International Conferences:

1. P.A.Sumod, **R.Thiruneelakandan**, K.Ramalingam Layerd MnO<sub>2</sub> in Organic Matrices, *36<sup>th</sup> Annual Convention of Chemists, International Conferences*, Calcutta, Dec. **1999**.
2. M.Abdul Wahab Johny, S.C.G.Kiruba Daniel, **R.Thiruneelakandan**, M.Sivakumar, Cu Doped ZnO Quantum dots for the fabrication of Quantum Dot Sensitized Solar Cell (QDSSC), *International Conference on Nanomaterials for Frontier Applications (ICNFA)*, CIT, Coimbatore, Tamil Nadu, 10-12 July **2013**.
3. G.Subbulakshmi, **R.Thiruneelakandan**, Management of cashew apple waste by vermicomposting using Earthworm *Eisenia foetida* in cuddalore district, Tamilnadu, *International Conference on Green Technology for Environmental Pollution Prevention and Control (ICGTEPC-2014)*, held at NIT, Tiruchirappalli on 27<sup>th</sup> to 29<sup>th</sup> September **2014**.
4. G.Subbulakshmi, **R.Thiruneelakandan**, Pollution Status of Waste (Heavy metals) in the Sediments of Uppanar River of Cuddalore District, Tamilnadu, India, *2<sup>nd</sup> International Conference on Engineering Technology and Science*, Muthayammal College of Engineering, Rasipuram, Tamilnadu, 5<sup>th</sup> & 6<sup>th</sup> March, **2015**.
5. Velanganni, S, **Thiruneelakandan, R** & Joseph Prince, J, 'Photocatalytic degradation of some organic dyes by thin film prepared by SILAR Method', in the TEQIP-II Sponsored International conference in Biological, Chemical and physical Science (ABCPS'2017) jointly organized by Departments of Biotechnology, Chemical and Physics, held at Bharathidasan Institute of Technology, Anna University Tiruchirappalli-620 024 during march 13th-15th, **2017**.

### b. National Conferences:

1. **R.Thiruneelakandan**, P.A.Sumod & K.Ramalingam, Synthesis and Characterization of some simple and mixed ligand complexes involving Thioguanine, 6-Thioguanosine, divalent Copper, Nickel and Dithiocarbamate, *Recent Research in Coordination Chemistry*, REC, Tiruchy-15, 2<sup>nd</sup> & 3<sup>rd</sup> March, **1999**.

2. P.A.Sumod, **R.Thiruneelakandan**, V.Venkatachalam, K.Ramalingam, G.Bocelli & A.Cantoni, Synthesis, Single Crystal X-ray structure, VBS calculation and Spectral studies on Tris(methylethanedithiocarbamate) Cobalt(III) and related compounds, *Recent Trends in structure, function, analysis of molecules and applications*, Mysore University, Mysore, 28<sup>th</sup> -30<sup>th</sup> October, **1999**.
3. **R.Thiruneelakandan**, A. Manohar & K. Ramalingam, Synthesis, spectral and single crystal X- ray studies on [1,3-Bis(diphenylphosphino)propane] (piperidinecarbodithioato)nickel(II) perchlorate, *Indian Council of Chemist, XIX Conference-2000*, Kuvempu University, Shimoga, Karnataka, 27<sup>th</sup> -29<sup>th</sup> November, **2000**.
4. **R.Thiruneelakandan**, P.A.Sumod, K.Ramalingam, Synthesis and characterization of some mixed ligand complexes of divalent nickel involving thiocyanate and substituted phosphine, *Indian Council of Chemist, XIX Conference-2000*, Kuvempu University, Shimoga, Karnataka, 27<sup>th</sup> -29<sup>th</sup> November, **2000**.
5. **R.Thiruneelakandan**, M.Saravanan, K.Ramalingam, G.Bocelli & L.Righi, Synthesis,spectral and single crystal X-ray studies on [1,3-bis(diphenyl phosphino)propane](dimethyldithiocarbamate)nickel(II) perchlorate, *National Conference and Symposium on solid state Chemistry and Allied Areas*, IIT, Kanpur, 6<sup>th</sup> -8<sup>th</sup> December, **2001**.
6. M.Saravanan, **R.Thiruneelakandan**, K.Ramalingam, G.Bocelli & L.Righi, Synthesis, spectral and single crystal X-ray studies on [Isothiocyanato) (triphenylphosphine)(dibenzylthiocarbamate)nickel(II), *National Conference and Symposium on solid state Chemistry and Allied Areas*, IIT, Kanpur, 6<sup>th</sup> -8<sup>th</sup> December, **2001**.
7. **R.Thiruneelakandan**, M.Saravanan, K.Ramalingam, G.Bocelli & L.Righi, Synthesis, spectral and single crystal X-ray studies on [1,4-bis(diphenylphosphino)butane](dimethyldithiocarbamate)nickel(II) tetraphenyl borate, *Indian Council of Chemists, XX Conference*, Department of Studies in Chemistry, Mysore University, Mysore, Karnataka, 22<sup>nd</sup>-24<sup>th</sup> December, **2001**.
8. M.Saravanan, **R.Thiruneelakandan**, K.Ramalingam, G.Bocelli & L.Righi, Synthesis,spectral and single crystal X-ray studies on[Bis(triphenylphosphine) (pyrrolidinecarbodithioato)nickel(II) tetraphenylborate, *Indian Council of*

*Chemists, XX Conference*, Department of Studies in Chemistry, Mysore University, Mysore, Karnataka, 22<sup>nd</sup>-24<sup>th</sup> December, **2001**.

- 9.** K.Ramalingam & **R.Thiruneelakandan**, Synthesis, spectral and single crystal X-ray studies on [1,4-bis(diphenylphosphino)butane](piperidinecarbodithioato)-nickel(II) perchlorate, *38<sup>th</sup> Annual Convention of Chemists, National Conference*, University of Jodhpur, Jodhpur, 26<sup>th</sup> -29<sup>th</sup> December, **2001**.
- 10.** **R.Thiruneelakandan** & K.Ramalingam, Synthesis, spectral and single crystal X-ray studies on Bis(tri(4-methylphenyl)phosphine)(dimethyldithiocarbamato)nickel(II) perchlorate, *38<sup>th</sup> Annual Convention of Chemists, National Conference*, University of Jodhpur, Jodhpur, 26<sup>th</sup> -29<sup>th</sup> December, **2001**.
- 11.** **R.Thiruneelakandan**, K.Ramalingam, G.Bocelli & A.Yurii Chumakov, Synthesis, spectral and single crystal X-ray studies on [Bis(triphenylphosphine)(dimethyldithiocarbamato)nickel(II)]perchlorate, *Indian Council of Chemists, XXI Conference*, Rani Durgavathi University, Jabalpur, Madhya Pradesh, 24<sup>th</sup> – 26<sup>th</sup> October, **2002**.
- 12.** **R.Thiruneelakandan**, K.Ramalingam, G.Bocelli & A.Yurii Chumakov, Synthesis, spectral and X-ray structural studies on [(Cyano)(triphenylphosphine)(dimethyldithiocarbamato)nickel(II)], *Indian Council of Chemists, XXII Conference*, IIT, Roorkee, Uttaranchal, 17<sup>th</sup> -19<sup>th</sup> October, **2003**.
- 13.** **R.Thiruneelakandan**, K.Ramalingam, R.Bhaskaran, G.Bocelli, A.Yurii Chumakov, Synthesis, spectral and single crystal X-ray structural studies on [(Isothiocyanato)(triphenylphosphine)(benzylethanoldithiocarbamato)nickel(II)], *Indian Council of Chemists, XXII Conference*, IIT, Roorkee, Uttaranchal, 17<sup>th</sup> - 19<sup>th</sup> October, **2003**.
- 14.** **R.Thiruneelakandan**, K.Ramalingam & V.Jeyaram, X-ray Photoelectron Spectral Studies on some Planar Complexes containing NiS<sub>4</sub>, NiS<sub>2</sub>P<sub>2</sub>, NiS<sub>2</sub>PN and NiS<sub>2</sub>PC Chromophores, *National Conference on Science and Technology of Advanced Materials*, Department of Physics, Pondicherry Engineering College, Pondicherry, 27<sup>th</sup> -29<sup>th</sup>, July **2005**.
- 15.** R.Radhakrishnan & **R.Tiruneelakandan**, Carbon dioxide an ecofriendly solvent, National Seminar on Current Trends in Green Chemistry, Department of Chemistry, SRM Institute of Science and Technology, Deemed University, Kattankulathur, Tamil Nadu, 6<sup>th</sup> and 7<sup>th</sup> April, **2006**.



- 16. R.Thiruneelakandan** & K.Ramalingam, Synthesis, spectral and single crystal X-ray studies on [bis(diphenylphosphino)ethane(diethanoldithiocarbamate)nickel(II) perchlorate, *National Conference on Emerging Trends in chemical Research*, Department of Chemistry, Annamalai University, Tamil Nadu, 17<sup>th</sup> and 18<sup>th</sup> October, **2008**.
- 17. R.Thiruneelakandan** & G.Subbulakshmi, Vermicomposting which is efficacy in viable agriculture conversion of waste material into valuable fertilizer, *National Conference on Advances in Material Science*, Department of Physics, Annamalai University, Tamil Nadu, 1<sup>st</sup> and 2<sup>nd</sup> March **2012**.
- 18.** S.Velanganni & **R.Thiruneelakandan**, 'Photocatalytic degradation efficiency of methylene blue by ZnSe/ZnO thin films', *Two day National seminar cum workshop on solar thermal and photovoltaic techniques*, Madurai Kamaraj University, Department of solar energy, Environment and Natural Resources during 5<sup>th</sup> and 6<sup>th</sup> October, **2017**.
- 19.** Anuja E, **Thiruneelakandan R** & Manikandan K, 2018, 'Effect of Complexing Agent: Comparative study of copper based Ternary thin films by chemical bath deposition Technique', International conference on advances in new materials at Department of Inorganic chemistry, University of Madras, Chennai on 8<sup>th</sup> – 9<sup>th</sup> June **2018**.
- 20.** E.Anuja & **R.Thiruneelakandan**, 'Photo Response Application of FeCuS<sub>2</sub> thin film prepared by chemical bath Deposition and the Effect of complexing agent', 4<sup>th</sup> International Conference on Chemical and Environmental Research (ICCER – 2018), Department of Chemistry, Jamal Mohamed College, Trichy on 19<sup>th</sup> December **2018**.
- 19.** G.D.Gayathri & **R.Thiruneelakandan**, 'Photo catalytic application of Iron Nickel Sulphide', International Conference on Recent Advances in Materials Sciences(ICRAMS), PG & Research Department of Physics, National College, Trichy during 4<sup>th</sup> – 6<sup>th</sup> February **2019**.

DECLARATION:

I CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT TO THE BEST OF KNOWLEDGE AND BELIEF.

DATE: 15.02.2020

Signature With date