

CURRICULUM VITAE

Dr. S. Thirumalairajan, Ph.D., MRSC

**Nanotechnology | Biosensors | Food Safety | Materials Science |
Sensor Fabrication | Semiconductor device | IOT process**

Visiting Scientist (Research & Innovation), CNMN, Brazil

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<https://scholar.google.co.in/citations?hl=en/>

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Professional Summary

❖ Research Experience (After Ph.D.,)	: 14 Years
❖ Teaching Experience	: 08 Years
❖ Administrative	: 08 Years
❖ Desing of Nano Research Lab	: 3 (Brazil, Indonesia and TNAU India)
❖ Development of Instrument	: 3 (IFSC, Brazil and TNAU India)
❖ Post Doctoral Experience in overseas	: 7 Years
❖ Project Received	: FAPESP, DBT, JNMF, CSIR-SRF, DST-N-PDF,
❖ Total Budget for the Project	: Rs. 5 Crores
❖ Patent Granted & Patent Published	: 02 and 06
❖ Book and Book Chapter with ISBN	: 06 and 10
❖ International Journal Publications	: 40
❖ Total Number of Citations	: ~ 2059 (as on 22.09.2025)
❖ h- Index	: 20
❖ i – index	: 24
❖ Invited lectures	: 31
❖ Number of Conference Papers	: 42
❖ Report submitted (Projects)	: Rs. 6.10 Crores (National/ International)
❖ Membership-professional bodies	: 10
❖ Organizing committee - events	: 10

Key Expertise

- Nanomaterials synthesis and characterization (SEM, TEM, XRD, AFM)
- Device fabrication and thin film deposition
- Biosensors (SERS, electrochemical, gas sensors)
- Food safety detection technologies
- Agricultural nanotechnology solutions
- Semiconductor device process
- Water purification using nanotechnology
- Lab setup, instrumentation & facility development
- Project leadership & grant management

Professor Experience

2025–2026	❖	FAPESP Visiting Professor (Research and Innovation), CNMN, Brazil
2023–2025	❖	GOI-DBT- Ramalingaswami Re-entry Faculty Fellow/Scientist D Centre for Agricultural Nanotechnology, TNUA, Coimbatore, India (Project Coordinator)
2018–2023	❖	GOI-DBT- Ramalingaswami Re-entry Faculty Fellow/Scientist D Centre for Agricultural Nanotechnology, TNUA, Coimbatore, India (Project Coordinator)
2017-2018	❖	Senior PDF: <i>National Changhua University of Education, Taiwan</i>
2017-2017	❖	DST-National Post Doctoral Fellow (Selected) -India
2017-2017	❖	Visiting Scientist: <i>Institute of Bandung, Indonesia</i>
2016-2017	❖	Post Doctoral Fellow: <i>Hanyang University, South Korea</i>
2014-2016	❖	FAPESP - Post Doctoral Fellow: <i>IFSC, USP, Brazil</i> <i>Exchange Programme 1. Boston University USA</i>
2013-2014	❖	Research Associate: <i>CECRI, Karaikudi, India</i>

Educational Qualification

2009-2012	❖	Ph.D. Physis - Nano Science and Technology (Interdisciplinary): Bharathiar University, Coimbatore, India (Thesis Highly Commended)
2007-2008	❖	M.Phil., Physics: Bharathiar University, Coimbatore, Tamilnadu, India (Thesis Highly Commended)
2005-2007	❖	M.Sc., Physics: Bharathiar University, Coimbatore, Tamilnadu, India (Prof. Raman Award for Best Student): 85%
2001-2004	❖	B.Sc., Physics: Erode Arts and Science College, Erode, Tamilnadu (Best Student: Certificate of Merit): 78%

Funds Received

Principal Investigator (PI)	❖	(1) GOI- DBT – Ramalingaswami Faculty Re-entry Fellowship Scheme: <i>Flexible and adhesive SERS based nanostructures device for efficiently detecting multicomponent pesticide residues in fruits and vegetables.</i> 2018 – 2025. Budget: 1.52 (One Crore and Fifty-Two lakhs).
		(2) FAPESP– Joint Project - Brazil: <i>Synthesis and Characterization of CuAlO₂ nanostructures: A systematic investigation of shape dependent nanomaterials for different Toxic gas sensing application.</i> 2014-2016. Budget: 1.25 (One Crore and Twenty-Five lakhs).
		(3) Jawaharlal Nehru Memorial Fund for Doctoral Studies: <i>Nanostructures and Thin films of Perovskite LaFeO₃: Morphology Dependent Properties and their Biosensing,</i> 2011-2013: Budget: 3.00 Lakhs.

Patent

Granted	❖	(1) Nano sensor-based detection of Pesticide residue in fruits – Indian Patent Grant No:398177-001 dt:21.10.2023
		(2) Nanotechnology-Based Dipping System for Water Purification - UK Patent, Grant No:6295344 dt: 17.09.2023
Published	❖	(1) Development of Plant-Based Nano Biofilm for Active Food Packaging– India patent– Filled No: 202241088926 dt: 12.01.2024

- (2) An Efficient Analytical Assay of Nanospindles as SERS active Substrate for Identification of Imidacloprid on the Surface of Fruits - **India patent – Filled No: 202241068186 A dt:27.01.2023**
- (3) Nanomaterials as SERS active substrates for detecting pesticide in fruits India patent – **Filled No: 202241063002, dt: 18.11.2022**
- (4) Formation of Single-crystalline novel LaFeO₃ dendritic nanostructure for dopamine analytical detection, **India patent – Filled No: 202241060606, dt: 28.10.2022**
- (5) Nanomaterials-based optical sensor: India patent – **Filled No: 202241005506, dt: 04.02.2022**
- (6) New nano fertilizers to improve plant mineral nutrition for eco-crop production, **India patent – Filled No: 202241043753, dt: 19.08.2022.**

Design of Research Lab Design and Development of Research Instrument

- | | |
|----------------------------------|---|
| Design Development
Instrument | ❖ (1) Chemical Gas sensing device unit – Brazil – 2014
(2) RF/DC magnetron Sputtering (Champer): Brazil - 2016
(3) Infrastructure design for nano center–Indonesia – 2017 |
| Laboratory | (1) Nano research Centre -ITB, Indonesia – 2017-2018
(2) Nano biosensor for Food safety Lab-TNAU-2018-2025 |

Book Series

- | | |
|-----------------|---|
| Book | ❖ 1. Characterization of Technique for Nanomaterials: A complete Guide, ISBN No: 978- 93-854-012-1, AkiniK Publication: 2025
2. Nano Science and Technology Scientific ISBN No: 978- 93-613-086-3, AkiniK Publication: 2024.
3. Nano biosensor: Concept and Applications: ISBN No: 999-758-856212-3, Astral Publication:2023
4. Fundamental & Applications of Nanostructures Perovskite Oxide: ISBN No: 978-93-5461-103-2, Astral Publication:2022
5. Construction and Analysis of Semi organic Crystal for NLO applications, ISBN:978-620-498509-1 Lambert liations:2021.
6. Deposition and analysis of CdSe and CdInSe Thin films, ISBN No: 978-620- 498509-1, Lambert Publiations:2021. |
| Book
Chapter | ❖ (1) Nanotechnology in Agricultural, Energy, and Environmental- Chapter 2: Magnetic, Electrical & optical properties of Nanostructure materials, ISBN No: 978-81-7035, 2020, Daya Publishing House
(2) Nanotechnology in Agricultural, Energy, and Environmental- Chapter 11: Nanotechnology in hemical and Optical Sensors. ISBN No: 978-81-7035, 2020, Daya Publishing House.
(3) Recent Advancements in Functional Nanostructured Biosensors for Food and Safety Applications, *"IIPV3EBS04_G20 Futuristic Trends in Agriculture Engineering & Food Sciences, ISBN No: E10S4G10-19AU6, IIP Book Serie.
(4) Chapter 20: MOF-based Nanomaterials for energy conversion and storage, ISBN No: 978-0-323-91179-5, Elsevier Book Publications |

Administrative Experience

- ❖ Academic and administrative coordination in Nanoscience & Nanotechnology
- ❖ Research proposal and scholar administration as per UGC and funding agency norms
- ❖ Laboratory administration, accreditation support, and academic event coordination

Industry

Industry Partner ❖ M/S Nano Research Elements Pvt. Ltd., Sarita Vihar, New Delhi

Miscellaneous Experience

Awards and Achievements

2026	❖	Visiting Professor Scheme – FAPESP- Brazil
2025	❖	MRSC- Member of the Royal Society of Chemistry – U. K.
2018	❖	DBT- Ramalingaswami Re-entry Faculty Award (<i>One of the Most Prestigious awards in India</i>).
2022	❖	International Best Researcher Award: <i>ISSN Award TRY</i>
2021	❖	Outstanding Scientist Award: <i>VDGOOD Kerala</i>
2020	❖	Best Senior Scientist: <i>Science Journal Club: Chennai</i>
2019	❖	Best Scientist Award in Nano Science: <i>Nature Science CBE</i>
2018	❖	Senior PDF: <i>Ministry of Science and Technology, Taiwan</i>
2017	❖	Visiting Scientist Award: <i>Ministry of Science & Tech., Indonesia</i>
2016	❖	PDF: Korean Foundation <i>PD Fellowship, Mistry of South Korea</i>
2016	❖	National Post Doctoral Fellow: <i>DST Govt. of India (Selected)</i>
2015	❖	FAPESP Exchange Programme: <i>FAPESP – Ministry of Brazil</i>
2014	❖	FAPESP Exchange Programme: <i>FAPESP – Ministry of Brazil</i>
2014	❖	FAPESP Post Doctoral Fellow: – <i>Merit award – PDF- Brazil</i>
2012	❖	Best Oral Presentation: <i>ICONSAT -, Hyderabad, India</i>
2011	❖	Jawaharlal Nehru Memorial Fund - <i>Ph.D. studies, Govt of India</i>
2009	❖	University Research Fellow (URF), <i>BU, Coimbatore, India</i>
2007	❖	Prof. Raman Award Best Student – <i>SRKV CAS Coimbatore</i>
2004	❖	Certificate of Merit – Best Student - <i>EAC, Erode</i>

Research Interest

Materials	❖	<i>Advanced functional nanostructure materials such as metal oxide, mixed metal oxide, perovskite oxide, QDS, etc.,</i>
Processing Technology	❖	<i>Physics method: DC, RF sputtering, Thermal evaporation, VPT, E-beam, Electro-deposition.</i> <i>Chemical and biological methods: All kinds of methods</i>
Characterization Properties	❖	<i>XRD, SEM, TEM, HRTEM, XPS, BET, Raman, FTIR, UV-Vis, etc</i> <i>Electrochemical workstation properties, Surface Enhanced Raman Spectroscopy (SERS).</i>
Device Fabrication		<i>Portable device for food safety, SERS Sensor, Biosensor, Gas Sensor, Water Splitting, Q-Dots for Energy applications.</i>

Research Publications (Top Signature Reports)

1. **S. Thirumalairajan**, et al, Sustainable Ag/LaFeO₃ Nanosphere as SERS Substrate Designed by Simplistic Drop and Peel-off Approach for the Ultrasensitive Detection of Acetamidrid on Surface of Vegetables **ACS Agri. Science and Technology**, **121**, 546-558 (2025). **IF: 3.95**
2. **S. Thirumalairajan**, et al, Shape Tunnelable Synthesis of Highly sensitive Ag/Metal Oxide Nanostructures as SERS Substrates for Pesticide detection on Surface of Fruits and Vegetables **Microchemical Journal**, **148**, 1587-1599, 2025 **IF:5.76**
3. **S. Thirumalairajan**, et al, Development of Ag/Cerium Iron Oxide Nanostructures Electrode Material: An Efficient Electrochemical Detection of tert-butylhydroquinone in Food Products, **New Journal Chemistry**, **8**, 49, 46414-46424 2025 **IF:4.12**
4. **S. Thirumalairajan**, et al, Critical Review Critical Review on Multifunctional Nanostructure Based Electrochemical Immunosensors for Foodborne Pathogens, **ACS Food Sci. Technol.** **4**, **10**, 2244–2257, 2024. **IF: 3.67**
5. K. Girija, **S. Thirumalairajan**, Development of promising Flower-like Ag/SrFeO₃ Nanosheets electrode materials: An Efficient and Selective Electrocatalyst Detection of Caffeic Acid in Coffee and Green Tea, **ACS Omega**, **2023**, **8**, **49**, 46414-46424. **IF: 4.51**
6. **S. Thirumalairajan**, K. Girija, Tailored construction of Ag/WO₃ nanospindles modified SERS substrate: An efficient analytical assay for identification of neonicotinoids on the surface of fruits **Optical Materials** **2022**. **F: 4.75**
7. **S. Thirumalairajan**, K. Girija, coherently designed sustainable SERS active substrate of Ag/TiO₂ hybrid nanostructures for excellent ultrasensitive of chlorpyrifos pesticide on the surface of grapes tomatoes, **Journal of Food Composition and analysis** **2021**. **IF: 8.15**
8. **S. Thirumalairajan**, K. Girija Efficient and tunable shape-selective synthesis of Ag/CeO₂ nanostructures modified highly stable SERS substrate for ultrasensitive detection of pesticides on the surface of an apple, **Nanoscale Adv.**, **2020**, **IF:4.95**
9. **S. Thirumalairajan**, K. Girija, I. Ganesh, C. Viswanathan, A. Balamurugan, and N. Ponpandian Controlled synthesis of perovskite LaFeO₃ microsphere composed of nanoparticles via self-assembly process and their associated photocatalytic activity, **Chemical Engineering Journal** **290** (2012) 420-428. **IF:13.27**
10. **S. Thirumalairajan**, K. Girija, Valmor R Mastelaro, Photocatalytic degradation of organic pollutants by shape-selective synthesis of β-Ga₂O₃ microspheres constituted by nanospheres for environmental remediation. **Journal of Mateiral Chemistry A** **3** (2015) 2617-2627. **IF:11.73**
11. **S. Thirumalairajan**, K. Girija, Development of CuAlO₂-Encapsulated Reduced Graphene Oxide Nanocomposites: An Efficient and Selective Electrocatalyst for Detection of Neurodegenerative Disorders, **ACS Applied Biomaterials** **2020**, **3**(11), 7769-7778. **IF:8.75**
12. **S. Thirumalairajan**, Valmor R. Mastelaro, Carlos A. In-Depth Understanding of the Relation between CuAlO₂ Particle Size and Morphology for Ozone Gas Sensor Detection at a Nanoscale Level **ACS Applied Materials and Interface**, **2015**, **6**, 21739. **IF: 8.75**
13. **S. Thirumalairajan**, K. Girija, Valmor R. Mastelaro, Surface Morphology Dependent Room Temperature LaFeO₃ Nanostructure Thin Films as Selective NO₂ Gas Sensor Prepared by RF Magnetron Sputtering. **ACS Applied Materials and Inter.**, **2014**, **6**, 13917-13927. **IF: 8.75**

14. **S. Thirumalairajan**, Valmor R. M. A Novel Organic Pollutants Gas Sensing Material *p*-Type CuAlO₂ Microsphere Constituted of Nanoparticles for Environmental Remediation. **Sensor and Actuators B: Chemical**, 2016, **223**, 138-148. **IF:7.460**
15. **S. Thirumalairajan**, K. Girija, Efficient and tunable shape-selective synthesis of Ag/CeO₂ nanostructures modified SERS substrate for ultrasensitive detection of pesticides on the surface of an apple, **Nanoscale Adv.**, 2020. **IF:6.85**
16. **S. Thirumalairajan**, K. Girija, V. Ganesh, D. Mangalaraj, and N. Ponpandian. Novel Synthesis of LaFeO₃ Nanostructure Dendrites: A Systematic Investigation of Growth Mechanism Properties, and Biosensing for Highly Selective Determination of Neurotransmitter. **Crystal Growth and Design (ACS)** 2013, **13** (1), 291–302. **IF:4.15**
17. **S. Thirumalairajan**, K. Girija, Valmor R.M N. Ponpandian, Photocatalytic degradation of organic dyes under visible light irradiation by floral-like LaFeO₃ nanostructures comprised of nanosheet petals. **New J. Chem.**, 2014, **38**, 5480-5490. **IF:3.68**
18. **S. Thirumalairajan**, K. Girija, Valmor Detection of neurotransmitter compound dopamine by modified glassy carbon electrode self-assembled perovskite LaFeO₃ microspheres constructed of nanospheres, **RSC advance** 2014, **4**, 25957-25962. **IF:3.29**
19. **S. Thirumalairajan**, K. Girija, Neha Y. Hebalkar, D. Mangalaraj, Shape evolution of perovskite LaFeO₃ nanostructures: A systematic investigation on growth mechanism, dependent photocatalytic activities. **RSC Advances** 2013, , 7549-7561. **IF:3.29**
20. **S. Thirumalairajan**, K. Girija, Valmor R. Mastelaro, Investigation on magnetic and electric properties of morphologically different perovskite LaFeO₃ nanostructures. **Journal of Materials Science: Materials in Electronics**, **26** (2015) 8652-8662. **IF: 3.17**
21. **S. Thirumalairajan**, K. Girija, Valmor R. Enhanced ultrasensitive detection of ozone gas using rGO/incorporated LaFeO₃ nanospheres for the environmental remediation. **Journal of materials science: Materials in Electronics**, (2020), 31:8933-8945. **IF: 3.17**
22. **S. Thirumalairajan**, K. Girija, N. Ponpandian, Detection of neurotransmitter compound dopamine by modified glassy carbon electrode self-assembled perovskite LaFeO₃ microspheres constructed of nanospheres, **RSC advance** 2014, **4**, 25957-25962. **IF:3.29**
23. K. Girija, **S. Thirumalairajan**, Valmor R. Mastelaro, K Morphology controllable synthesis of parallel arranged single-crystalline β -Ga₂O₃ nanorods for photocatalytic antimicrobial activities. **Chemical Engineering Journal** 234 (2014) 181-190. **IF: 13.27**
24. Sung Hyun Noh, **Subramaniam Thirumalairajan**, Woongsik Jang Graphene-phthalocyanine hybrid as a next photoactive layer., **Carbon**, 2017, **119**, 476-482. **IF:8.8**
25. **S. Thirumalairajan**, K. Girija, Valmor R. Mastelaro, Surface Morphology Dependent Room Temperature LaFeO₃ Nanostructure Thin Films as Selective NO₂ Gas Sensor Prepared by RF Magnetron Sputtering. **ACS Applied Materials and Inter.**, 2014, **6**, 13917-13927. **IF: 8.75**
26. **S. Thirumalairajan**, Valmor R. M. A Novel Organic Pollutants Gas Sensing Material *p*-Type CuAlO₂ Microsphere Constituted of Nanoparticles for Environmental Remediation. **Sensor and Actuators B: Chemical**, 2016, **223**, 138-148. **IF: 9.75**
27. K Girija, **S Thirumalairajan**, D Mangalaraj Synthesis, morphology, optical and photocatalytic of nanostructured β -Ga₂O₃. **Materials Research Bulletin** 48 (2013) 2296-2303. **IF: 4.64**

28. K Girija, **S Thirumalairajan**, Astam K Patra, D Mangalaraj, N Ponpandian Organic additive –assisted synthesis of mesoporous β -Ga₂O₃ nanostructures for photocatalytic dye degradation. **Semiconductor science and Technology (IOP) 2013**, 28, 035015. **IF: 2.65**
29. K. Girija, **S. Thirumalairajan**, D. Mangalaraj, N. Ponpandian. Enhanced photocatalytic performance of novel floral β -Ga₂O₃ nanorods. **Current Applied Physics 2013**, 13 (4), 652-658. **IF: 2.48**
30. K. Girija, **S. Thirumalairajan**. Structural, morphological and optical studies of CdSe thin films from ammonia bath. **Chalcogenide Lett.**, 6 (2009) 351 **IF: 4.64**
31. K. Girija, **S. Thirumalairajan**, Valmor RM, Catalyst Free Vapor-Solid Deposition of Morphologically Different β -Ga₂O₃ Nanostructure Thin Films for Selective CO Gas Sensor at low Temperature. **Analytical Methods 8**, 2016, 3224-3235. **IF:2.07**
32. **S. Thirumalairajan**, P. Maadeswaran, and J. Chandrasekaran, Synthesis, growth, spectral, thermal and photoluminescence properties of a new semiorganic NLO crystal - Thiosemicarbazide lithium chloride [TSLC]. **Optik 122**, 2011, 259-262. **IF:1.26**
33. P. Maadeswaran, **S. Thirumalairajan**, Growth characterization of a new semiorganic NLO- Bis (thiourea) lithium chloride, **Optik 121 (2010) 1620-1624**. **IF:1.26**
34. **S. Thirumalairajan**, and J. Chandrasekaran, Growth, thermal, optical and birefringence studies of semiorganic nonlinear TCCM, **Optoelectronics & Advanced Materials 3 (1) (2009) 36- 39**. **IF:1.26**
35. **S. Thirumalairajan**, P. Maadeswaran, J. Chandrasekaran. synthesis, growth, spectral, photoluminescence and VSM properties of a semiorganic nonlinear optical crystal-[CTB]. **Optik 121 (9) (2010) 923-929**. **IF:1.26**
36. K. Girija, **S. Thirumalairajan** and S. M. Mohan, Deposition and characterization of Cadmium indium selenide thin film by chemical bath technique, **Optoelectronics and Advanced Materials - Rapid Communications, 3 (1) (2009) 60 - 62** **IF:1.26**
37. **S. Thirumalairajan**, Girija, Structural and optical investigation of manganese oxide thin films by spray pyrolysis technique **Optoelectronics and Advanced Materials – Rapid Communications, 2 (12) (2008) 779 - 781**. **IF:1.26**
38. P. Maadeswaran, **S. Thirumalairajan**, J. Chandrasekaran, Growth and characterization of a semi-organic nonlinear optical crystal-cadmium thio-semi carbazide bromide, *Journal of Optoelectronic and Biomedical Materials* 1 180-187 (2009). **IF:2.68**
39. K. Girija, **S. Thirumalairajan**, Structural, morphological and optical studies of CdSe thin films from ammonia bath **Chalcogenide Lett.**, 6 (2009) 351. **IF:2.68**
40. P. Maadeswaran, **S. Thirumalairajan**, J. Chandrasekaran, Growth and characterization of a semi-organic nonlinear optical crystal-cadmium thio semi carbazide bromide, *Journal of Optoelectronic and Biomedical Materials* 1 180-187 (2009). **IF:2.68**

Invited Talk – International Conference, Workshop, and Seminar

Abu Dhabi UAE	❖	17 th ICNM – Nano Connect - 2024
Singapore	❖	11 th ICMAT -2023 MRS & IUMRS -2023
		30 th assembly of advanced materials Congress – 2019
		8 th ICMAT - 2015 MRS & IUMRS
USA	❖	2016 Materials Research Society Fall Meeting

- Dubai ❖ *Global Nanotechnology Congress and EXPO - 2016*
- Brazil ❖ *Workshop on 1st (EBARX) Sao Paulo, Brazil -2015*
Workshop on Functional Materials -2014

Membership

- Life Time Member ❖ (1) Member of Royal Chemical Society (MRSC)
 (2) Materials Research Society of India- MRSI – India
 (3) Society for Advancement of Electrochemical Science & Technology (SAEST) -CECRI- Karaikudi, India
 (4) Electron Microscope Society of India (IOP) Bhubaneswar,
 (5) Brazil Research Society - MRS – Brazil
- Membership ❖ (1) IEEE Membership Nanotechnology, India- IEEE- India
 (2) Nanoscience and Technology, Consortium- NST- India
 (3) Materials Research society-MRS -USA

Workshop/Training

- Organization Committee ❖ National Stoke holder meeting – TNAU-2019
 Nano Products – Training & Demonstration – TNAU- 2023
 Global Conference on Nano Connect - 2024

Editorial Experience

- Reviewer ❖ ACS, RSC, Elsevier, Springer

Language Skill

- Fluent ❖ English, Tamil,
 Understand speak ❖ Portuguese and Malayalam

Hands-on Experience Materials Preparation and Characterization Techniques

- Structural ❖ *XRS, Raman, and FTIR*
 Morphological ❖ *SEM, FESEM,*
 Particle Size ❖ *TEM, HRTEM*
 Compositional ❖ *XPS and EDAX*
 Thermal ❖ *TG/DTA and DSC*
 Electrochemical ❖ *Workstation – VSP 300*
 Gas Sensor ❖ *Keithley-Sensor chamber*
 Photocatalysis ❖ *Photoreactor UV/Solar*

Country Visit

- Research ❖ Brazil, USA, France, South Korea, Indonesia, Taiwan
 Invited Talk ❖ Brazil, USA, Singapore, Dubai, Abu Dhabi,

Teaching Experience (6 Years) – TNAU Coimbatore, India

- M.Sc., ❖ NST: 501: Fundamental Nano Science, and Technology
 NST: 503: Synthesis of Nanomaterials
 NST: 509: Application of Biosensor
- Ph.D. ❖ NST 601 Agricultural Application of Biosensor
 NST 603: Nanomaterials Characterization Techniques

Laboratory Manual Preparation – TNAU Coimbatore, India

M.Sc.,	❖	NST: 503: Synthesis of Nanomaterials NST: 509: Application of Biosensor
Ph.D.	❖	NST 601 Agricultural Application of Biosensor NST 603: Nanomaterials Characterization Techniques

Guide - Students, SRF, and JRF

Ph.D. Student	❖	3 (Completed)
Master Student	❖	2 (Completed)
SRF (DBT Project)	❖	2 (Completed)
JRF (DBT Project)	❖	2 (Completed)

Syllabus and Curriculum Design:

- MSc and Ph.D.,

References & Contact Information

Dr. Valmor R. Mastelaro, Ph.D. Director of IFSC, Brazil	❖	Group of Ceramic Materials & Crystal Growth Institute of Physics Sao Carlos (IFSC) University of Sao Paulo (USP), Brazil, Email: valmor@ifsc.usp.br , Phone: 55(16)3373.9828
Dr. V. Ganesh, Ph.D., Principal Scientist	❖	Electrode and Electrocatalysis Division Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi - 630 006, India Email: vganesh@cecri.res.in , +91-9443320794
Dr. K.S. Subramaniam, Ph.D., Former Director of Research	❖	Centre for Agricultural Nanotechnology Tamilnadu Agricultural University Coimbatore, India, Email: kssubra329@gmail.com Phone: +97892-69549

I with this declare that the above-written particulars are true and correct to the best of my knowledge and belief. My endeavours shall be dotted with perseverance, hard work, and determination.

Place: Coimbatore

Yours truly
(S. Thirumalairajan)