

CURRICULAM VITAE

Dr. E. VINOTH, M.Sc., B Ed., M.Phil., Ph.D.,

Assistant Professor of Physics,

School of Science,

Tamil Nadu Open University,

Chennai-600 015

Tamil Nadu, India

Mob: +91 9442426838

E-mail: vinphy2020@gmail.com



OBJECTIVE

Seeking an opportunity in field of education to motivate and enrich the knowledge of students in science and technology using simple methodology

EDUCATIONAL QUALIFICATIONS :

S.No	Course	Department	Name of the College	Name of the University	Percentage
1	Ph.D. (2020)	Physics (Crystal Growth)	Kalaingar Karunanithi Arts and Science College, Tiruvannamalai Tamil Nadu- 606 603.	Thiruvalluvar University, Vellore, Tamil Nadu - 632 115	Awarded 30.12.2020
2	M.Phil. (2015)	Physics (Crystal Growth)	Kalaingar Karunanithi Arts and Science College, Tiruvannamalai Tamil Nadu - 606 603.	Thiruvalluvar University, Vellore, Tamil Nadu - 632 115	79
3	M.Sc. (2014)	Physics	A.V.V.M. Sri Pushpam College, Poondi, Thanjavur, Tamil Nadu - 613 503	Bharathidasan University, Tiruchirappalli Tamil Nadu - 620 024	OGPA 6.23
4	B.Ed. (2012)	Physical Science	Vidhyala College of Education, Tiruvannamalai, Tamil Nadu - 606 611	Tamil Nadu Teacher Education University Chennai - 600 097	85
5	B.Sc. (2011)	Physics	Pachaiyappa's College for Men, Chennai, Tamil Nadu -600 030	University of Madras Chennai, Tamil Nadu-600 005	50.90
6	D.T.Ed (2008)	Education	Vignesh Teacher Training Institution, Kilanaikarai, Tiruvannamalai Tamil Nadu -606 603	Department of Government Examinations, Chennai 600 006	79
7	H.S.C. (2003)	Maths & Biology	St. Micheal's Higher Secondary School, Gingee - Tamil Nadu - 604 202	State Board Tamil Nadu, Chennai, 600 006	53.83
8	S.S.L.C. (2001)	--	St. Micheal's Higher Secondary School, Gingee Tamil Nadu -604 202	State Board Tamil Nadu Chennai, 600 006	77

PROFESSIONAL EXPERIENCE:

1. Working as an Assistant Professor (C) in Department of Physics, School of Science, Tamil Nadu Open University, Chennai from 11.08.2023 to till date.
2. Served as an Assistant Professor in P.M.R. Engineering College, Maduravoyal, Chennai for the period from 28.11.2022 to 13.06.2023
3. Served as an Assistant Professor in Apollo Arts and Science College, Guduvancheri, Chennai for the period from 21.07.2021 to 25.11.2022.
4. Served as an Assistant Professor in Arunesa Arts and Science College for Women, Tiruvannamalai – 606 611 for the period from 06.01.2020 to 19.07.2021.
5. In last 10 years conducted science awareness programme and physics simple experiments for day to life through Tamil Nadu science forum (TNSF) for more than **5 lakh students** including school and college students.

GOOGLE SCHOLAR DETAILS

<https://scholar.google.com/citations?hl=en&user=Qexwc6IAAAAJ>

Citations	303
h-index	7
i-index	5

RESEARCH AREAS

- Crystal growth (physics)
- Nano material science (physics)

AREAS OF INTEREST

- Statistical Analysis System (Education)
- Demonstration in Physics (Education)

SOFTWARE SKILLS

- Chem draw Ultra 12.0
- Mercury 4.2.0
- Origin 8.1

LIST OF AWARDS

- **Samuthaya Sirpi Nallasiriyar Viruthu** 2020 in 15th October 2020
- **Kalvi Mamani Viruthu 2022** in 15th July 2022

- **Semozhi Sudar Kalaignar Viruthu 2022**
- **Semozhi Thendral Viruthu 2022**
- **Mozhi Chemmal Award 2022**
- **Shemmozhi Selvar Award 2022**
- **World Record Holder Award** in the tenure 26.02.2020 to 06.03.2020 for nonstop 220 hours continuous seminar
- **Thirukkural Noolari Maamani Award 2022**
- **Oli Vilaku Award 2022.**
- Won 3rd prize in "World Year of Physics 2005" in 16th Dec 2005
- Won 2nd Prize in "Pushpamala 2014" Inter-College Competition in 2014-2015

DETAILS OF BOOK PUBLISHED

“FEBRUARY MATHAMUM ARIVIYAL ARIGNARGALUM” 2022

EXTRA CURRICULAR ACTIVITIES

- ❖ Science Demonstration in Physics Experiments
- ❖ Teaching Learning Material (TLM) for rural students
- ❖ Member of Information and Communication Technology (ICT) to create awareness among students
- ❖ Member of NSS & NCC in college days
- ❖ Member of Blood Donor’s Association
- ❖ Science Club member Tiruvannamalai and Villupuram District
- ❖ Encouraging students to participate in Tamil development related activities
- ❖ Interacting in social media forums
- ❖ Organizing science related activities in colleges and schools, Yoga events

THESIS DETAILS

S.No	Degree	Title of Thesis	Guide details	University
1	M.Phil Physics (crystal growth)	1,4 Bis (3-Amino propyl) Piperazine with Thioureabased novel Crystals: Synthesis and Characterization for Bio-medical Applications	Dr. S. Vetrivel, Assistant Professor, Kalaignar Karunanithi Arts and Science college, Tiruvannamalai - 606 603	Thiruvalluvar University, Serkadu, Vellore, Tamil Nadu - 632 115
2	Ph.D Physics (crystal growth)	Synthesis Growth and Characterization of Metal Ions doped Sulphanilic acid crystals	Dr. S. Vetrivel, Assistant Professor, Kalaignar Karunanithi Arts and Science College, Tiruvannamalai - 606 603	Thiruvalluvar University, Serkadu, Vellore, Tamil Nadu - 632 115

LIST OF TALKS / RESOURCE PERSON / EVENTS : 30

S.No	Title of the Talk	Title of the Conference	Place	Date
1.	Zonal level Children's Science Congress (Evaluator)	Safe Water Management Children's Science Congress	Jaya Arts and Science College, Thirunirravur, Chennai	01.02.2025
2.	District level Children's Science Congress (Evaluator)	Safe Water Management Children's Science Congress	VET Education College, Villupuram	29.01.2024
3.	District level Children's Science Congress (Evaluator)	Safe Water Management Children's Science Congress	S.I.V.E.T College, Gowrivakkam, Chennai	19.01.2025
4.	District level Children's Science Congress (Evaluator)	District level Children's Science Congress	Girls Higher Secondary, Ashok Nagar, Chennai	09.01.2025
5.	Science Awareness workshop	Simple experiments of Physics	Annai Terasa arts and Science college.	02.02.2024
6.	Nalaiya Vinyani (VIT & Hindu Tamil) (Judge)	The future Scientist, 2023	V.I.T, Chennai	05.01.2024
7.	An innovative approach in making research development	State Level Orientation Programme on Research Proposal	E.S. College of Education, Villupuram	09.12.2023
8.	Evaluator for National Children's Science Congress	31st National Children's Science Congress	E.S. College of Education, Villupuram	30.10.2023
9.	Evaluator for National Children's Science Congress	31st National Children's Science Congress	Sri Venkateswara Engineering college, sriperambadur	23.10.2023
10.	Illam Thedi Kalvi (Resource Person)	Skill Development Programme	Institute of Mathematical Science, Tharamani, Chennai	01.04.2025
11.	SAMAGRA SHIKSHA STEM KRP (Key resource person)	Zonal level STEM Training	V.R.S Engineering College, Arsur, Villupuram District	09.11.2022 10.11.2022
12.	30th National Children's Science Congress (resource person)	District level interim Workshop on south Chennai District	Mathematical Institution, Tharamani, Chennai	05.11.2022
13.	STEM on WHEELS	KRP Training Programme	Hotal Kanchi, Egmore, Chennai	13.09.2022 14.09.2022
14.	30th National Children's Science Congress (resource person)	Workshop on guide teacher training program	The John Dewey Matriculation School, Villupuram District	14.10.2022
15.	Tamil Nadu science forum Educational environment development	Educational environment development	Mathematical Institution, Tharamani, Chennai	02.07.2022

16.	Tamil Nadu science forum two days members camp	Panchayat union middle School Kattalai	Villupuram District	25.6.2022 & 26.6.2022
17.	Science Demonstration in Physics Experiments	Workshop regarding Physics in day to day life	Kamban College of arts and science, Tiruvannamalai.	17.03.2022
18.	Science Demonstration in Physics Experiments	Workshop regarding everyday Physics	Lady Willingdon college, Chennai	28.02.2022
19.	29th National Children's Science Congress (Evaluator)	Science and Technology (online)	Tiruvannamalai District	19.12.2021
20.	29th National Children's Science Congress (Evaluator)	Science and Technology (online)	Tiruvarur District	19.12.2021
21.	29th National Children's Science Congress (Evaluator)	Science and Technology (online)	Villupuram District	18.12.2021
22.	Science Demonstration in Physics Experiments	Science Demonstration in Physics (NWSDP-2021)	Government Arts and Science College, Tiruvannamalai	28.02.2021
23.	28th National Children's Science Congress (Evaluator)	Science and Technology (online)	Karur District	19.01.2021
24.	28th National Children's Science Congress (Evaluator)	Science and Technology (online)	Villupuram District	13.01.2021
25.	28th National Children's Science Congress (Evaluator)	Science and Technology (online)	Pudukkottai District	12.01.2021
26.	Optics Demonstration in Physics Experiments	Optometry	Paramedical college, Polur	10.03.2020
27.	Science Demonstration in Physics Experiments	Science day celebration	SNS Matric Higher Secondary School, Tiruvannamalai	28.02.2020
28.	Science Demonstration in Physics Experiments	National Workshop on Science Demonstration in Physics (NWSDP -2020)	Vivekanandha College of Arts & Sciences for Women, Tiruchengodu - 637 205	20.02.2020 to 21.02.2020
29.	27th National Children's Science Congress (Evaluator)	Science, Technology and innovation for Green, Clean and Healthy Nation	Adityavivekanandha Matric Higher Secondary School, Villupuram.	5.11.2019
30.	26th National Children's Science Congress (Evaluator)	Science & Technology	Srimather Vidhyasaram School, Villupuram	25.10.2018

LIST OF SEMINARS:

(a) INTERNATIONAL: 6

1. Faculty Development Programme organized by Department of Indian Studies University of Malaya, Kuala Lumpur, Malaysia, held on 17th -18th August 2012.
2. Conference on Food Technology organized by Indian Institute of Crop Processing Technology, Government of India, Thanjavur, India held on 4th - 5th January 2013.
3. Conference on Smart materials organized by PG and Research Department of Physics, Sacred Heart College, Tiruppattur, held on 11th -12th February 2015.
4. Participated in Conference on Molecular structure of nano and bio-materials (ICMSNBM-2018) held on 27th & 28th, September 2018, conducted by Arigner Anna Government Arts College, Cheyyar.
5. Presentation in the conference on Applied science and technology held on 27 & 28th August 2018, conducted by Periyar University, Salem.
6. Presentation on Material science and technology held on 27 & 28th August 2018, conducted by Pachamuthu College of Arts and Science for Women, Dharmapuri.

(b) NATIONAL LEVEL : 9

1. Workshop on Advance Nanomaterials & Thin Films organized by National Institute of Technology, Tiruchirappalli, held on 08 & 09th March 2013.
2. Aerospace Festival 2013 organized by Periyar Maniammai University, Vallam, Thanjavur, held on 21st to 23rd January 2013.
3. Advances in Modern Biology and Environment by H.H The Rajah' Govt. College, Pudukkottai, held on 07 & 08 February 2013.
4. Participated in the Regional seminar on Current trends in nano materials held on 24th December 2018, conducted by Islamiah College, Vaniyambadi.
5. Participated in UGC sponsored conference on Smart materials organized by Sacred Heart College, Tiruppattur on 11th & 12th September 2017.
6. Participated in National Conference on preparation and characterization of crystalline materials (NCPCCM-2017), organized by Government Arts College, Tiruvannamalai on 5th & 6th September 2017.
7. Presented a paper entitled Effect of Indium Chloride on the growth and physical properties of potential NLO L-Asparagine single crystal, National conference on recent advancement in materials science (NCRAMS-2017) on 25th & 26th July 2017 at Government Arts College, Tiruvannamalai -606603.
8. Presented a paper entitled structural optical and mechanical studies on Pure and AlCl₃ Doped Potassium dichromate single crystal, National Conference on Recent Advancement in Materials Science (NCRAMS-2017) on 25th & 26th July 2017 at Government Arts College, Tiruvannamalai -606603
9. Participated in conference on Emerging trend in environmental research (NCETTER-2017) on 22nd July 2017 at SSN College of Engineering, Kalavakkam.

PATENTS FIELD: 01

Title of the invention: Zwitterionic Compound with Piperazine and Phenolate
Application No. 202541002250 A

NEW MOLECULES INVENTION and DEPOSIT IN CAMBRIDGE UNIVERSITY: 04

1. (NZ, N'Z)-3, 3'-(piperazine-1, 4-diyl) bis (N-(4-methyl benzylidene) propane-1-amine)
2. 2-Fluoro-5-nitroaniline
3. 1, 4-bis (3-ammoniopropyl) piperazine-1, 4-dium bis [dichromate (VI)]
4. 2,2'-(piperazine-1,4-diylbis[(propane-3,1-diyl)imino]methanylylidene)}bis(6-fluorophenolate).

PAPERS PUBLISHED IN REFERRED JOURNALS WITH CO RESEARCHERS: 35

<u>S.No</u>	<u>AUTHOR NAME</u>	<u>RESEARCH ARTICLE</u>	<u>JOURNAL</u>	<u>IMPACT FACTOR</u>
1.	V Sriraman, E Vinoth, MN Mohideen, PKM Imran, A Arun	Synthesis, crystal structure, DFT, docking and biological activity studies of (NZ, N'Z)-3, 3'-(piperazine-1, 4-diyl) bis (N-(4-methyl benzylidene) propane-1-amine)	Materials Chemistry and Physics Elsevier	4.094,
2.	T Suresh, S Gopinath, E Vinoth, S Vetrivel	Investigation on synthesis, optical and electrical performance of L-asparagine cerium (III) sulfate single crystal for non linear optical applications	Inorganic Chemistry Communications	4.4
3.	E Vinoth, S Vetrivel, S Gopinath, J Suresh	Growth and Characterization of Semiorganic Non-linear Optical Material:(((4-aminophenyl) sulphonyl) oxy) zinc (II) chloride Crystal	Journal of Taibah University for Science	2.688
4.	SE Allen Moses, J Johnson, P.Nagaraju, Y Raghu, R Shanmugavalli, R Gunaseelan, E Vinoth	Crystal engineering and physicochemical properties of l-cysteine cadmium chloride (LCC) for frequency-doubling and optical limiting applications	Journal of Materials Science: Materials in Electronics Springer	2.478
5.	R Arul Jothi, S Vetrivel, S Gopinath, RU Mullai, J Johnson, E Vinoth	Synthesis, growth and characterizations of picric acid mixed potassium hydrogen phthalate single crystal for non linear optical applications	Journal of Materials Science: Materials in Electronics	2.478

			Springer	
6.	E Vinoth, S Vetrivel, S Gopinath, R Aruljothi, T Suresh, RU Mullai	Growth and characterization of 4-(((4-aminophenyl) sulfonyl) oxy)-2, 3-dihydroxy-4-oxobutanoic acid with Ce: for semiorganic nonlinear optical application	Materials Science-Poland	1.279
7.	Manogar Palani, Snekhaa Kalaiselvan, John Abel Martin Mark, Kanagadurga Chandran, Vinoth Ekhambaram	Green synthesis of CuO nanoparticles: A promising role of antioxidant and antimicrobial activity by using <i>Tribulus terrestris</i> L	Aspects of Molecular Medicine Elsevier	
8.	S Prabakar, M Mayakannan, E Vinoth	Synthesis and Characterizations of Cadmium Doped Aluminium Oxide Nanoparticles	NanoNEXT	
9.	V. Shobana, K. Jenifer Asuntha, T. Saranya. E.vinoth	Synthesis & Characterization of Lithium Ferrite Nano Particles by Sol – Gel Method,	International Journal of All Research Education & Scientific methods	1.429
10.	R Arul Jothi, S Vetrivel, S Gopinath, RU Mullai, E Vinoth	Growth, XRD, optical, thermal, mechanical, electrical and NLO studies on mixture of potassium hydrogen phthalate and L-tartaric acid crystal for NLO applications	Applied Physics A Springer	2.584
11.	M Mayakannan, E Vinoth, S Prabakar	Synthesis and Structural, Optical Properties of Cadmium Doped Cobalt Oxide Nanoparticles	International Research Journal of Multidisciplinary Technovation	0.3
12.	RU Mullai, SR Kanuru, R Arul Jothi, E Vinoth, S Gopinath, S Vetrivel	Piperazine-based zirconium oxy-chloride (PzZrOCl) single crystal: a third-order nonlinear optical material for optoelectronic device applications	Journal of Materials Science: Materials in Electronics	2.478
13.	S Prabakar, M Mayakannan, E Vinoth	Synthesis and Characterizations of Cadmium Doped Aluminium Oxide Nanoparticles	NanoNEXT,	-

14.	P Ramesh, K Saravanan, P Manogar, J Johnson, E Vinoth ,	Green synthesis and characterization of biocompatible zinc oxide nanoparticles and evaluation of its antibacterial potential ...	Sensing and Bio-Sensing Research	4.124
15.	E Vinoth , S Vetrivel, S Gopinath, RU Mullai, R Aruljothi, T Suresh	Semi-organic nonlinear optical material:(((4-sulfonatophenyl) ammonio) oxy) zirconium for dielectric and photonics applications	Materials Science-Poland	1.279
16.	E Vinoth , S Vetrivel, S Gopinath, RU Mullai, R Aruljothi, T Suresh	Growth and study of 4-sulfobenzenaminium potassium dihydrogenphosphate for mechanical, dielectric and photonics applications	Materials Science-Poland	1.279
17.	T Suresh, S Vetrivel, S Gopinath, E Vinoth	Investigation on synthesis, laser damage threshold, and NLO properties of L-asparagine thioacetamide single crystal for photonic device applications	Journal of Materials Science: Materials in Electronics	2.478
18.	E Vinoth , S Vetrivel, S Gopinath, R Aruljothi, T Suresh, RU Mullai	A new class semi-organic nonlinear optical materials: mono (4-sulfo benzene aminium) tri nickel (II) bis (dihydrogen phosphate) for photonic applications	Materials Science for Energy Technologies	7.63
19.	RU Mullai, R Arul Jothi, T Suresh, E Vinoth , S Gopinath, G Vinitha, ...	Growth and study of piperazine-doped succinic acid single crystals for NLO applications	Emerging Materials Research Ice publishing	0.41
20.	E Vinoth , S Vetrivel, S Gopinath, J Suresh	Growth and Characterization of Semiorganic Non-linear Optical Material:(((4-aminophenyl) sulphonyl) oxy) zinc (II) chloride Crystal	Journal of Taibah University for Science	2.688
21.	T Suresh, S Vetrivel, S Gopinath, E Vinoth	A new NLO Material: L-Asparagine thiocyanate (LATC) for opto-electronic applications	Chinese journal of physics	3.237

22.	E Vinoth, C Thileepan, RU Mullai, D Sivavishnu, Arul Jothi, T Suresh, S Vetrivel	Structural, optical, mechanical and thermal properties of sodium borohydride doped potassium dichromate single crystal (SBHKDC)	Chemistry Reports	-
23.	E Vinoth, S Vetrivel, RU Mullai, RA Joithi, T Suresh, K Gnanamoorthi	Growth, Spectral and Optical Properties of N, N'-Thiocarbonyl Bis (4-aminobenzenesulfonamide) with Barium Chloride: A Semi-Organic Nonlinear Optical Crystal	Journal of Advanced Physics	2.38
24.	K Moorthy, M NizamMohideen, S Vetrivel, E Vinoth, A Arun	2-Fluoro-5-nitroaniline	IUCrData 3, x180425	0.7
25.	E Vinoth, T Suresh, RU Mullai, S Gopinath, L Kanagasabapathy,	Enhancement of mechanical, electrical, optical and structural properties based on potassium hexacyano ferrate single crystals ...	Chemical Letters	-
26.	R Arul Joithi, RU Mullai, E Vinoth, T Suresh, S Gopinath, S Vetrivel	Growth and characterization of succinic acid-mixed KHP crystal for NLO applications	Emerging Materials Research Ice publishing	0.41
27.	S Vetrivel, E Vinoth, RU Mullai, R Aruljothi, M NizamMohideen	Crystal structure of 1, 4-bis (3-ammoniopropyl) piperazine-1, 4-dium bis [dichromate (VI)]	Acta Crystallographica Section E: Crystallographic Communications	0.413
28.	S.Rushil raaj , K.Yokesh sharma , P.Sathiya murthy A.Vijaya kumar, E.Vinoth G.pariyannan	THE NATURAL RESOURCES AND MANAGEMENT (SAVE SPARROW) IN AROUND THE GINGEE FOREST	IJARIIIE	4.06

PERSONAL DETAILS

❖ Father's Name : M.Ekambaram
❖ Date of Birth : 08-04-1985
❖ Age & Sex : 39 yrs & Male
❖ Nationality : Indian
❖ Permanent address : EWS B4, Block 1, 45th street, 8th sector
K.K. Nagar, Chennai- 600078
❖ Mobile No : 9442426838
❖ E- mail id : vinphy2020@gmail.com

DETAILS OF REFERENCE PROFESSORS

Professor:_1

Dr. S.Vetrivel, M.Sc., M.Phil., M.Ed., M.Phil., Ph.D.,
Assistant Professor in Physics,
Kalaingar Karunanithi Arts and Science College,
Tiruvannamalai,
Mobile no.: 9443440125
E-mail id: vetrivelsivaraman@yahoo.com

Professor:_2

Dr. S. Gopinath, M.Sc., M.Phil., Ph.D.,
Assistant Professor in Physics
Kalaingar Karunanithi Arts and Science College,
Tiruvannamalai,
Mobile no.: 9944274627
E-mail id: sgnath74@gmail.com

DECLARATION

I hereby declare that the above particulars furnished by me are true to the best of my knowledge and belief.

Date:
Place: Chennai

E. VINOTH