

Dr. M. VENKATESH, M.Sc., Ph.D. (Physics)

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Present Position

Assistant Professor
Department of Physics
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Citation, Index and Scientific Networks

- International Journals : 20
- Conference Proceedings : 01
- Edited the Publication : 01
- Cumulative impact factor : 53.375
- Average impact factor : 02.541
- Maximum impact factor : 06

Citations / H-Index

408
CITATIONS

H 12
H-INDEX

408
CITATIONS

Google Scholar

CITATION
439
Total

329
(2019)

H INDEX
9
Total

8
(2019)

I-10 INDEX
9
Total

7
(2019)

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Thomson Reuters: Researcher ID: [C-4933-2017](https://orcid.org/C-4933-2017)

Research Gate: https://www.researchgate.net/profile/Venkatesh_M

Google Scholar: [MifH5zkAAAAJ](https://orcid.org/MifH5zkAAAAJ)

ACEDEMIC DETAILS

S.No.	Degree	Specialization	Month & Year of Passing	Full time / Part time / Distance Education	Average in % / CGPA	Name of the Institution studied	Name of the Board / University
1.	UG	Physics, Mathematics, Chemistry	2006	Full Time	66.70	Arignar Anna Govt. Arts College, Namakkal	Periyar University, Salem
2.	PG	Physics	2008	Full Time	72.20	Department of Physics, Periyar University	Periyar University, Salem
3	Ph.D.	Physics	2014	Full Time	Highly Commented	Department of Physics, Periyar University, Salem	Periyar University, Salem

AWARDS/HONOURS AND ACADEMIC DISTINCTIONS

1. **UGC Project Fellow** in the Department of Physics, Periyar University, Salem, from April 6, 2011, to February 29, 2012.

2. **UGC Non-SAP BSR Fellow** in the Department of Physics, Periyar University, Salem, from April 2012 to March 22, 2014
3. Received the **Best Poster Presentation award** at the International Symposium on Modeling of Crystal Growth Processes and Devices, SSN Research Centre, SSN Institutions, Chennai, held on March 26-28, 2019.
4. Received the **International Best Researcher Award** (IACRD-2019) from the International American Council for Research & Development, USA, on June 30, 2019.
5. Received the **Young Faculty in Science Award (VIFA-2019)** from the Venus International Foundation, Chennai, India, on July 6, 2019..
6. Received the Research Excellence Award – InSc 2019 from the Institute of Scholars, Bangalore, India.
7. Received the **Shri P. K. Das Memorial Best Faculty Award** for 2019 from Nehru College of Educational and Charitable Trust, Coimbatore, on December 15, 2019.

AREAS OF INTEREST

Condensed Matter Physics/Theoretical and computational Physics/Nonlinear excitations and modulational instability in liquid crystal systems/ Charge transport in hydrogen bonded systems/Energy transport in Multidimensional lattices/ Development and characterization of Spin ladders dynamics and Nanomaterials.

RESEARCH ACTIVITY

Research Projects/Funded Conferences:

Title of the Projects/Conference title	Amount & Investigator	Scheme	Period	Status	Funding Agency
National Workshop on Space Science cum Hands Training on Sky Observation (Ref. No.: TNSCST/POP.SCI./AR/21/2019-2020/12610 dated 29/09/2020)	₹20,000/- & Convener	Popularisation of Science	25 & 26 February 2020	Completed	TNSCST
International Conference on Emerging Materials and Modeling (ICEMM – 2019) (Ref. No.: 37/17/102/2018-BRNS/17269 dated 23/01/2019)	₹50,000/- & Convener	Symposium for Partially Funding (SAP)	07-09 January 2019	Completed	BRNS

Structural and magnetic properties of Ca-Ni-Ferrite nanoparticles by microwave combustion method for magnetic high density information storage devices (Ref. No.: PS-001/2017-2018)	₹10,000/- & Principal Investigator	Student Project Scheme	3 Months	Completed	TNSCST
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Edited the Scientific Journals

Sl. No.	Name of the Editors	Title, Volume (Year) Page	Name of the Journal	Impact Factor	SCI/Scopus
1.	M. Venkatesh & G. Suresh Kumar	International Conference on Emerging Materials and Modeling Vol. 26, Iss. P4 (2020) 3503–3622	Materials Today: Proceedings (Elsevier)	1.09 (Cite Score)	Y

Scientific Publications:

Refereed Journals	Published (International)	19
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Sl. No.	Name of the Authors	Title, Volume (Year) Page	Name of the Journal	Impact Factor	SCI
Field of Material Science					
1.	N. Jayanthi, M. Venkatesh, R. Suresh Kumar	Enhancing the Performance of Evacuated Tube Heat Pipe Solar Collector Using CuO Nanofluid 11 (2024) 393-407	Journal of Polymer & Composites	6.005	Y
2.	N. Jayanthi, M. Venkatesh, R. Suresh Kumar, S. Sekar	A review on performance of nanofluids in various heat pipe solar collector 228 (2024) 5–14	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering	2.4	Y

3.	R. Sureshkumar S. Tharves Mohideen, N. Jayanthi, M. Venkatesh	Thermal analysis of two-phase closed thermosyphon (TPCT) using nanofluids 26 (2020) A1-A5	Materials Today: Proceedings	1.09 (Cite Score)	Y
4.	N. Jayanthi, R. Suresh Kumar, Gopalu Karunakaran, M. Venkatesh	Experimental investigation on the thermal performance of heat pipe solar collector (HPSC) 26 (2020) 3569-3575	Materials Today: Proceedings	1.09 (Cite Score)	Y
5.	K. Kandasamy, M. Venkatesh , Y. A. Syed Khadar, Paramasivan Rajasingh	One-pot green synthesis of CdS quantum dots using Opuntia ficus-indica fruit sap 26 (2020)3503-3506.	Materials Today: Proceedings	1.09 (Cite Score)	Y
6.	G.Karunakaran, G. Suresh Kumar M. Venkatesh , D. Kuznetsov	Hollow MgNi _{1.4} Zn _{0.6} /CaCu ₂ . 79Fe _{4.2} O ₁₂ nanocomposite synthesis via ultrasonic high-temperature spray pyrolysis 101 (2018)3761-3766	Journal of the American Ceramic Society	3.9	Y
7.	J. Duraimurugan, G. Suresh Kumar, M. Venkatesh , P. Madeshwaran, E.K. Girija	Morphology and size controlled synthesis of zinc oxide nanostructures and their optical properties 29 (2018) 9339-9346	Journal of Materials Science: Materials in Electronics	2.8	Y
8.	G.Karunakaran, N.Van Minh, Y. Konyukhov, E. K. Alexander Gusev, M. Venkatesh , D. Kuznetsov, G. Suresh Kumar	Effect of Si, B, Al ₂ O ₃ and ZrO nano-modifiers on the structural and mechanical properties of Fe + 0.5% C alloy 17 (2017) 669-676	Archives of civil and mechanical engineering	4.4	Y
9.	G. Suresh Kumar, E.K. Girija, M. Venkatesh , G. Karunakaran, E. Kolesnikov, D. Kuznetsov	One step method to synthesize flower-like hydroxyapatite architecture using mussel shell bio-waste as a calcium source 43 (2017) 3457-3461	Ceramics International	5.2	Y

10.	G. Karunakaran, M. Jagathambal, M. Venkatesh , G. Suresh Kumar, E. Kolesnikov, A. Gusev, D. Kuznetsov	Hydrangea paniculata flower extract- mediated green synthesis of MgNPs and AgNPs for health care applications 305 (2017) 488–494	Powder Technology	5.2	Y
11.	M. Venkatesh , G. Suresh Kumar, S. Viji, S. Karthi, E.K. Girija	Microwave assisted combustion synthesis and characterization of nickel ferrite nanoplatelet 2 (2016) 74-78	Modern Electronic Materials	Yet to be assigned	Y
Field of Theoretical Physics					
12.	L.Kavitha, M. Venkatesh , S. Dhamayandhi and D. Gopi	Nonlinear refractive index induced collision and propagation of nematicons 197 (2014) 142–151	Journal of Molecular Liquids	6	Y
13.	L.Kavitha, M. Venkatesh , and D. Gopi	Shape changing nonlocal molecular deformation in a nematic liquid crystal system 18 (2015) 29–45	Journal of the Association of Arab Universities for Basic and Applied Sciences (JAAUBAS)	1.570	--
14.	L. Kavitha, M. Venkatesh and D. Gopi	Breather-like director reorientations in a nematic liquid crystal with nonlocal nonlinearity, 51 (2014) 476–488	Wave Motion	2.4	Y
15.	L.Kavitha, M. Venkatesh , S. Dhamayandhi and D. Gopi	Modulational instability of optically induced nematicon propagation, 22 (2013) 129401	Chin. Phys. B	1.7	Y
16.	L Kavitha, M Venkatesh , S Dhamayanthi, E Parasuraman and D Gopi	Optically induced switching of nematic deformations, 88 (2013) 065015	Physica Scripta	2.9	Y

17.	L. Kavitha, M. Venkatesh , S. Jayanthi and D. Gopi	Propagation of proton soliton in hydrogen bonded chains with an asymmetric double well potential 86 (2012) 025403	Physica Scripta	2.9	Y
18.	M.T. Darvishi, M. Najafi, L. Kavitha and M. Venkatesh	Stair and step soliton solutions of the integrable (2+1)- dimensional and (3+1) dimensional Boiti-Leon-Manna- Pempinelli equations 58 (2012) 785–794	Communications in Theoretical Physics	3.1	Y
19.	L Kavitha, E Parasuraman, M Venkatesh , A Mohamadou and D Gopi	Breather-like protonic tunneling in a discrete hydrogen bonded chain with heavy-ionic interactions 87 (2013) 035007	Physica Scripta	2.9	Y
20.	L.Kavitha, M. Venkatesh , and D. Gopi	Shape changing nonlocal molecular deformation in a nematic liquid crystal IC/2010/053 (2010)	ICTP Preprint	Yet to be assigned	--
21.	M. Venkatesh , S. Dhamayanthi and L. Kavitha	Mobile kinkon for NLPDE governing the dynamics of nematic liquid crystal using exp-function method	Differential Equations and Applications, Narosa, 2014	ISBN: 978-81- 8487- 331-3	--

Patent Details:

Sl. No.	Name of the Authors	Title of the Patents	Patent No	Filed Date	Published
1.	Dr. M. Venkatesh , Ms. V.T. Jeielayaganga, Ms. N. Jayanthi, Dr. R. Suresh Kumar, et al.	Nano Particle Based Air Purifier	397632-001	14.10.2023	15.12.2023

2.	Mr. T. Rajendrakumar, Mrs.R.Latha, Mr. R. Ramesh, Mr. P.Raja Sekar, Mr. S. Nagarajan, Mr. A. Azhaguraja, Dr. M. Venkatesh , Mrs. M. Devisree	Systematic study to understand the importance of integral and differential calculus integrated techniques in revolutionizing aerospace/space science	20234107 1976 A	20.10.2023	01.02.2023
3.	Ms. Bindu Vadlamudi, Dr. V. P. Devarajan, Prof. Manjunath K N, Dr. M. Venkatesh , Mr.A Karthik, et. al	Advanced power generation material and process design by artificial intelligence	02341081 925 A	01.12.2022	05.01.2023

Research Supervision:

Ph.D., Produced : Awarded: Nil
: Presently Guiding: 03

S. No.	Name	Thesis Title	University	Year
1.	Mrs. N. Jayanthi	Synthesis and Characterization of Nanofluids for Solar Energy Conversion Systems	Periyar University	2018
2.	Mrs. R. Keerthiga	Nanomaterials for Supercapacitor	Periyar University	2023
3.	Ms. V.T. Jei Elaya Ganga	Nanomaterials for Supercapacitor	Periyar University	2024

M.Sc., Produced : Awarded: 31
: Presently Guiding: 04

S. No.	Name	Thesis Title	University	Year
1.	Mr. E. Tamilselvan	Preparation of CdS Nanoparticles Enhance the Visible-Light Photoconductivity Activity of <i>Coffea Arabica</i> Dye	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2020
2.	Ms. S. Revathi	Synthesis and Characterization of Ag-doped CdS Quantum Dot using Green Synthesis Method for Solar Cell Application	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2020

3.	Ms. C. Harini	Synthesis and Characterization of CdS Quantum Dot for Luminescence Optical Applications	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2020
4.	Mr. I. Tamilselvan	Green Synthesis and Characterization of CdS Nanoparticles with <i>Punica granatum</i> Extract as Capping Agent	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2020
5.	Mr. M. Prasanth	Enhancing the Energy Transfer Mechanism of CdS Nanorods with <i>Areca Catechu</i> Extract as Capping Agent	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2020
6.	Ms. T. Saranya	Synthesis of CdS Quantum Dot for <i>Eclipta Prostrata</i> Extract used as Capping Agent	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2020
7.	Mr. C. Vasudevan	Synthesis of CdS Quantum Dots for the Drug Delivery of Anticancer	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2020
8.	Ms. D. Koushika	Microwave assisted combustion synthesis and characterization of nickel ferrite nanoparticles doped effects on rare-Earth (Yb) material	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2019
9.	K. Poovarasu	Structural and magnetic properties of Gadolinium doped nickel nanoferrite using microwave combustion method	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2019
10.	Ms. S.Priyanka	Microwave combustion synthesis and characterization of Calcium-Ferrite nanoparticles from sea shell bio-waste for optical memory devices	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2018
11.	Ms. G. Priya Dharshini	Arterial pressure into a nonlinear excitation of Solitary Waves in visco-elastic tubulin system	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2018
12.	Ms. P. Revathi	Structural and magnetic properties of Ca-Ni-Ferrite nanoparticles by microwave combustion method using natural organic modifier like citric acid for magnetic	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2018

		high-density information storage devices		
13.	Ms. M. Shalini	Microwave combustion synthesis and characterization of calcium-ferrite nanoparticles for biomedical applications	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2018
14.	Ms.A. Sindhupriya	Structural and magnetic properties of Ca-Ni-Ferrite nanoparticles by microwave combustion method using organic modifier like citric acid for magnetic high-density information storage devices	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2018
15.	Ms. D. Suganthi	Green synthesis and characterization of CdS nanoparticles with pomegranate extract as capping agent	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2018
16.	Mr. G. Sriram	Microwave synthesis and characterization of ZnO nanoparticles using Trisodium Citrate and EDTA	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2017
17.	Mr. J. Premkumar	Microwave synthesis and characterization of Ni doped ZnO nanoparticles	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2017
18.	Ms. A. Mohanapriya	Soliton in ferrites with the perturbation of anisotropy and exchange interactions through Jacobi elliptic function method.	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2017
19.	Ms. M. Vinothini	Energy shipping of soliton like nonlinear modes in carbon nanoparticles	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2017
20.	Ms. S. Viji	Microwave combustion synthesis and characterization of nickel ferrite nanoparticles	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2016
21.	Mr. L. Leelakrishnan	Microwave synthesis and characterization of SnO ₂ nanoparticles for gas sensing	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2016

22.	Ms. S. Ilayarasi	Nonlinear vibrations of solitary wave behavior in carbon nanotubes	K. S. R. College of Arts and Science (Autonomous)	2015
23.	Mrs. R. Keerthiga	Nonlinear waves in a composite magnetic-semiconducting medium with externally applied magnetic field	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2015
24.	Ms. J. Revathi	Solitons in higher-order nonlinear optical media	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2015
25.	Mr. K. Sakthivel	Cavity solitons excitations in semiconductor microresonators	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2015
26.	Mr. P. Selvakumar	Localized excitation of soliton in microtubules with interdimer bonding interactions	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2015
27.	Ms. M. Malathi	Localization of energy and Propagation of soliton in two-components Bose-Einstein condensate systems	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2014
28.	Mrs. B. Saraswathi	Exact solitary wave propagation in two leg spin ladder systems	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2014
29.	Mr. S. Sureshkumar	Propagation of solitons in nematic liquid crystal systems under the influence of nonlocal nonlinearity	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2014
30.	Mr. R. Viji	Propagating solitary wave solution of (2+1)-dimensional lattice waves	K. S. R. College of Arts and Science (Autonomous)	2014
31.	Ms. S. Jeevarekha	Synthesis and Characterization of MWCNT\CdSe-PANI Composites for gas sensor applications	K. S. R. College of Arts and Science (Autonomous), Tiruchengode.	2014

CONFERENCE/ SEMINAR/ WORKSHOPS PRESENTED/PARTICIPATED		
Presented	International	2
	National	10
Participated	International	0
	National	20

List of Oral/Poster Talks:

1. **M. Venkatesh** and L. Kavitha, *Fluxon dynamics of an three inductively stacked Josephson Junction*, National Conference in Recent and Emerging developments in physics, Nagercoil, 7-9 January (2010).
2. L. Kavitha, **M. Venkatesh**, S. Dhamayanthi and D. Gopi, *Soliton like molecular orientation in a nematic liquid crystal with surface anchoring energy under the influence of electric field*, School and Conference on Mathematics and Physics of Soft and Biological matter, ICTP, Italy during 02 – 13 May, 2011.
3. L. Kavitha, **M. Venkatesh** and D. Gopi, *A Paraxial model for soliton switching in nematic liquid crystal*, National workshop on Nonlinear Dynamical systems, National Institute of Technology, Durgapur, 04-08 July (2011).
4. **M. Venkatesh** and L. Kavitha, *Propagation of mobile solitons in carbon Nanotubes*, National conference on Advanced Nanomaterials (ANM-2012), Periyar University, Salem, February 6-7 (2012).
5. **M. Venkatesh**, S. Dhamayanthi and L. Kavitha, *Director deformation of solitons in a nematic liquid crystal with nonlocal nonlinearity*, National conference on Advanced Nanomaterials (ANM-2012), Periyar University, Salem, February 6-7 (2012).
6. **M. Venkatesh**, S. Dhamayanthi and L. Kavitha, *Mobile kinkon for NLPDE governing the dynamics of nematic liquid crystal using exp-function method*, National conference on Advanced Differential Equations (NCAD - 2012), Department of Mathematics, Periyar University, Salem, March 29-30 (2012).
7. **M. Venkatesh**, L. Kavitha et al., *Soliton like molecular orientation in a system of coupled nematic and smectic liquid crystals*, 7th National conference on Nonlinear Systems and Dynamics, IISER Pune, 12-15 July 2012.
8. **M. Venkatesh**, L. Kavitha et al., *Nonlinear excitations in smactic liquid crystal under the influence of magnetic field effects*, 12th Tamil Science Congress, Periyar University, Salem, 23 – 25 August 2012.
9. **M. Venkatesh**, L. Kavitha, D. Gopi, *Director orientation in the form of perturbed solitons in a nematic liquid crystal medium*, Prospective in Nonlinear Dynamics – 2013, University of Hyderabad, Andhra Pradesh, 15-18 July 2013.

10. **M. Venkatesh**, P. Revathi, A. Sindhupriya, Structural and magnetic properties of Ca-Ni-Ferrite nanoparticles by microwave combustion method for magnetic high density information storage devices, International symposium on crystallography and advanced materials, University of Madras, 26 & 27th March 2018.
11. **M. Venkatesh**, G. Karunakaran, E.B. Cho, E. Kolesnikov, G. Suresh Kumar, Superparamagnetic calcium ferrite nanoparticles synthesized from sea shell bio-waste using a microwave combustion method for targeted drug delivery, International Conference on Advanced Nanomaterials for Energy, Environment and Healthcare Applications, K.S.R. College of Arts and Science for Women, 31.08.2018-01.09.2018.
12. D. Koushika, M. Vanitha Sri, **M. Venkatesh**, Microwave assisted combustion synthesis and characterization of nickel ferrite nanoplatelets doped effects on rare-Earth irons, International symposium on Modeling of Crystal Growth Processes and Devices, SSN Research Centre, SSN Institution, Chennai, 26 & 28th March 2019.

List of Participation:

1. National Workshop and Conference on Computational Methods for *Nonlinear Dynamics* held at Centre for Nonlinear Dynamics, Bharathidasan University, Tiruchirappalli, Tamil Nadu, during 22-25 September 2010.
2. National Workshop on *Nonlinear Physics: Theory, Experiments and Applications* held at Nehru memorial College, Puthanampatti, Tamil Nadu, during 29-31 March 2010.
3. Workshop on *Recent Developments in Nanomaterials research* held at Periyar University, Salem, Tamil Nadu on 2008.
4. Workshop on *Electronics in Daily Life* held at Periyar University, Salem, Tamil Nadu on 2008.
5. National Conference on *Recent Advances Vibrational Spectroscopy* held at Periyar University, Salem, Tamil Nadu, during 29-30 Jan 2007.
6. Workshop and Conference on *Computational Methods for Nonlinear Dynamics*, 22-25, September 2010, Bharathidasan University, Centre for Nonlinear Dynamics, Tiruchirappalli.
7. DST-SERC School on *Nonlinear Dynamics* held at Bharathidasan University, Tiruchirappalli, Tamil Nadu, during 04-26 January 2011.
8. Workshop on *Functional Materials (WFM)* held at Department of Physics, Periyar University, Salem, Tamil Nadu on 14th March 2012.

9. Workshop on Recent Trends in Superconductivity (*RTC – 2012*) held at Department of Physics, Periyar University, Salem, Tamil Nadu on 22th March 2012.
10. One day workshop on Recent Advances in Physics Experiments (*WRAPE – 2012*) held at Department of Physics, Periyar University, Salem, Tamil Nadu on 28th March 2012.
11. One day seminar on Materials for Advanced Technology (*SMAT – 2014*) held at Department of Physics, Periyar University, Salem, Tamil Nadu on 21st February 2014.
12. One day special program for Pact organize by Chinmaya Mission Initiative held at KSR college of Arts and Science (Autonomous), Tiruchengode, Tamil Nadu on 13th February 2014.
13. Lecture workshop on selected topics in pure and applied physics held at KSR College of Technology, Tiruchengode during on 6-8 February 2015 sponsored by IAS, INSA, NAS.
14. Participated National Conference on Advances in Materials Science and Nonlinear Systems held at K.S.R. College of Engineering, Tiruchengode, during 07-08 January 2016.
15. Science Academies Lecture Workshop on Recent Trends in Nanobiotechnology held at K.S. Rangasamy College of Technology, Tiruchengode during 25-27 January 2016.
16. Science Academies Lecture Workshop on Recent Developments in Chemistry held at K.S.R College of Arts and Science for Women, Tiruchengode during 6th & 7th January 2017.
17. Participated in Science Model in connecting with the competition conducted by Science City for the Chennai Science Festival 2017.
18. Participated one day Workshop on Nano Materials Fabrication & Characterization Techniques held at K.S. Rangasaamy College of Technology, Tiruchengode on 18th March 2019.
19. Participated in Workshop on J Gate-An Electronic Gateway for Research held at K.S.R. College of Engineering, Tiruchengode on 10.07.2019.
20. Participated in National level seminar on Machine learning in Robotics held at K.S. Rangasaamy College of Technology, Tiruchengode on 30.08.2019.

LIST OF REFRESHER COURSE /SHORT TERM TRAINING PROGRAM ATTENDED

1. Participated in Indian Academics Sciences sponsored Refresher Course on Nanotechnology and its Applications held at K.S. Rangasamy College of Technology on April 16 to 28, 2018.

2. Participated in a two-week ISTE Short Term Training Programme on Engineering Physics conducted by Indian Institute of Technology Bombay during from December 08-18, 2015.
3. Participated in Indian Academics Science sponsored 65th Refresher Course on Experimental Physics to be held at Goa University during 11 – 26 November 2014.

LIST OF INVITED TALK

1. Resource person for the coaching class topic on Basic Physics organized by TANGEDCO Assistant Engineer Recruitment 2015 held at K.S.R. Polytechnic College, Tiruchengode – 637 215.

LIST OF FDP ATTENDED

1. Participated the faculty development program on Electron Transport Phenomena in Nano Materials organized by IQAC, K.S. Rangasamy College of Arts and Science, Tiruchengode– 637 215.

LIST OF CONFERENCE/SEMINAR ORGANIZED

1. Served as **Convener** in **TNSCST** Sponsored **National Workshop on Space Science cum Hands Training on Sky Observation** held at Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode, Namakkal during 25 & 26 February 2020.
2. Served as **Convener** in **BRNS** Sponsored **International Conference on Emerging Materials and Modeling (ICEMM – 2019)** held at Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode, Namakkal during 07-09th January 2019.
3. Served as **Convener** in **Hands-on Training on Sky Observation** held at Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode, Namakkal on 08 & 09th March 2018.
4. Served as **Convener** in **National Seminar on Advanced Materials Research (NSAMR – 2018)** held at Department of Physics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode, Namakkal on 01st February 2018.

INTERNAL/EXTERNAL EXAMINER

1. Internal Examiner in Theory/Practical Physics UG & PG at K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode.
2. External Examiner in Physics for Periyar University affiliated colleges 2016 onwards.

3. External Examiner in Physics for Selvamm College of Arts and Science 2018 onwards.
4. External Examiner in Physics for Dr. N.G.P. College of Arts and Science 2018 onwards.

INTERNAL/EXTERNAL QUESTION PAPER SETTER

1. Gobi Arts & Science College, Gobichettipalayam.
2. Thanthai Hans Roever College of Arts and Science, Perambalur.
3. Thiagarajar College, Madurai.
4. Dr. N.G.P Arts and Science College, Coimbatore

MEMBERSHIP/PROFESSIONAL SOCIETIES

1. Professional member in Institute of Science, Bangalore INSC id: INSC2019547
2. Indian Academics and Researchers Association.

REVIEWER/EDITOR OF JOURNALS

1. Editor in *Materials Today: Proceedings* - Journal – Elsevier.
2. Reviewer in *International Journal of Basic and Applied Science*.
3. Reviewer in *International Energy Journal (IEJ)*.
4. Reviewer in *Journal of Physics: Condensed Matter* (IOP Science)
5. Reviewer in *Journal of Mathematics and Computer Science (JMCS)* (ISR-Publications)

PROFESSIONAL EXPERIENCE

Research:

Designation	Name of the Institution	Period	
		From	To
Research Fellow	Department of Physics, Periyar University, Salem – 636 011	02.05.2009	05.04.2011
UGC Project Fellow	Department of Physics, Periyar University, Salem – 636 011	06.04.2011	29.02.2012
Junior Research Fellow (UGC – Non – SAP – BSR)	Department of Physics, Periyar University, Salem – 636 011	24.04.2014	14.03.2013

Total Experience in Research: 5 Years 2 Months 00 Days

Teaching and Research:

Designation	Name of the Institution	Period	
		From	To
Assistant Professor and Head	Department of Physics, K.S.R. College of Arts & Science (Autonomous), Thiruchengod – 637 215	23 rd August 2013	till date

Total Experience in Teaching: 11 Years 00 Months

PROFESSIONAL ACHIEVEMENTS

List of Theory Papers Handled:

1. Classical Mechanics
2. Quantum Mechanics and Relativity
3. Mathematical Physics
4. Electromagnetic Theory

5. Semiconductor Physics
6. Nano Science & Physics of Nanoscale.

100% Result Achievements

1. Semiconductor Physics & Integrated Electronics for the academic year 2014-2015.
2. Physics of Nanoscale for the academic year 2015 -2016.
3. Classical Mechanics for the academic year 2015-2016.
4. Electromagnetic Theory for the academic year 2016 -2017.
5. Quantum Mechanics and Relativity for the academic year 2016-2017.
6. Quantum Mechanics and Relativity for the academic year 2017-2018.

ADMINISTRATIVE ACTIVITIES			
Designation	Name of the Institution	Period	
		From	To
Department Placement Coordinator	Department of Physics, K.S.Rangasamy College of Arts & Science (Autonomous), Thiruchengode	23 rd August 2013	31.07.2014
Department Research Co-coordinator	Department of Physics, K.S.Rangasamy College of Arts & Science (Autonomous), Thiruchengode	01.08.2014	23.10.2017
Department ISO and NAAC Coordinator	Department of Physics, K.S.Rangasamy College of Arts & Science (Autonomous), Thiruchengode	01.08.2014	23.10.2017
Deputy Warden (PG Boys Hostel)	K.S.Rangasamy College of Arts & Science (Autonomous), Thiruchengode	12.09.2017	07.10.2021
Head of the Department	Department of Physics UG, K.S.Rangasamy College of Arts & Science (Autonomous), Thiruchengode	05.07.2014	06.08.2024
Member in R & D Cell	K.S.Rangasamy College of Arts & Science (Autonomous), Thiruchengode	01.03.2019	Till date
Coordinator-Innovation Activity, Institution's Innovation Council (IIC), MHRD	K.S.Rangasamy College of Arts & Science (Autonomous), Thiruchengode	05.06.2019	Till date

COMPUTER PROFICIENCY

Linux, Windows, FORTRAN, Latex, MATHEMATICA, MAPLE, MATLAB.

EXTRA CURRICULAR ACTIVITIES

1. Participated in ten days NSS Special camping Programme on the theme *Water and Sanitation* organized at Kavettipatty during Under Graduate (2006).

2. Attended the *Computer – Cum – Internet Literacy Programme* conducted by the Directorate of Collegiate Education held at Arignar Anna Government Arts College, Namakkal, during the year 2003-2004.

REFERENCES	
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PERSONAL DETAILS

Father's Name : Mr. A. Manickam
Mother's Name : Mrs. A. Selvarasi
Date of Birth : 12 May 1986
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Marital Status : Unmarried
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Declaration

I hereby declare that the above provided details are true to the best of my knowledge.

Sincerely Yours,



M. VENKATESH