

Dr. J. ARUMUGAM  
 Assistant Professor  
 Department of Physics  
 Sri Vidya Mandir Arts & Science College (A)  
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## OBJECTIVE

Seeking a challenging position to utilize my skills and ability in research and academic that offers professional carrier.

\*Currently working as a Assistant Professor in Sri Vidya Mandir Arts and Science College (Autonomous) from December 2009 – still.

Name of the College	Designation	Services		Total Experience
		From	To	
Sri Vidya Mandir Arts and Science College (Autonomous)	Assistant Professor in Physics	23.12.2009	21.02.2024	14 Years 01 Month
	Assistant Professor in Physics	11.12.2024	Till Date 14.07.2025	07 Months
<b>Total Teaching Experience</b>				<b>14 Years 08 Months</b>

I. Name : Dr. J. ARUMUGAM

II. Designation : Assistant Professor

III. Date of Birth : 05. 01.1982

IV. Qualification : M.Sc., M.Phil., Ph.D.,

S.No	Qualification	Institution/ University	Year of Passing	Class
1	10 <sup>th</sup> STD	Government High School, Valippatti Pochampalli, Krishnagiri, Tamil Nadu, India	1998	Second (57.2%)
2	12 <sup>th</sup> STD	Government Boys Higher Secondary School, Mathur, Pochampalli, Krishnagiri, Tamil Nadu, India	2000	Second (59.8%)
3	B.Sc., (Physics)	Government Arts College (Men), Krishnagiri, Tamil Nadu, India	2003	First (60.1%)
4	M.Sc., (Physics)	Government Arts College (Men), Krishnagiri, Tamil Nadu, India	2005	First (74.5%)
5	M.Phil., (Physics)	Alagappa University, Karaikudi, Tamil Nadu, India	2006	First (75%)
6	Ph.D., (Physics)	Periyar University, Salem, Tamil Nadu, India	2021	Highly Commended

**V. Residential Address for Communication :** Dr. J. ARUMUGAM

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Krishnagiri – 635 306

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**VI. Teaching Experience**

: UG – 14 Years, 08 Months

PG –12 Years, 06 Months

**VII. Area of Specialization**

: Green Synthesis of Nanomaterials  
Crystal growth (NLO materials)

**VIII. Student Projects guided in PG level & M.Phil:**

✚ M.Sc (Physics) : Completed- 42 & Ongoing - 3

✚ M.Phil (Physics) : Completed- 18

# IX. LIST OF RESEARCH PUBLICATIONS IN THE NATIONAL/ INTERNATIONAL JOURNALS AFTER 2015

S.NO	Authors Name	Title of Paper	Name of the Journal	Year	Volume & Page Number	ISSN	Impact Factor
1	K.Srinivasan, <b>J.Arumugam</b>	Growth of Non-linear optical $\gamma$ -glycine single crystals and their characterization	Journal of Optical Materials	2007	30 (40-43)	0925-3467	<b>2.320</b>
2	M. Selvapandiyan, <b>J.Arumugam</b> , P. Sundaramoorthi, S. Sudhakar,	Effect of sodium chloride on the properties of ZTS single crystals',	Journal of Alloys and Compounds	2013	558 (34-38)	0925-8388	<b>3.779</b>
3	M. Selvapandiyan, <b>J.Arumugam</b> , P. Sundaramoorthi, S. Sudhakar,	Influence of MgSO <sub>4</sub> doping on the properties of zinc tris-thiourea sulphate (ZTS) single crystals	Journal of Alloys and Compounds	2013	580 (270- 75)	0925-8388	<b>3.779</b>
4.	M. Selvapandiyan, <b>J.Arumugam</b> , P. Sundaramoorthi, S. Sudhakar,	Growth and characterization of pure and zinc acetate doped zinc (tris) thiourea sulphate (ZTS) single crystals	International Journal of Science, Technology and Humanities	2014	1 (6-11)	2394 - 7209	-
5	M. Selvapandiyan, <b>J.Arumugam</b> , P.Sundaramoorthi, S. Sudhakar	Crystal Growth, Structural, Spectral, Optical and Mechanical Properties of Pure and Potassium Chloride Doped Zinc (tris) Thiourea Sulphate Single Crystals	International Journal of Elixir Crystal Growth	2015	86 (34882-34888)	2229-712X	<b>0.454</b>

6	M.Selvapandiyan, <b>J.Arumugam</b> S.Karthikeyan M.Prasath	Growth and Characterization of Sodium Chloride Doped Lithium Sulphate Single Crystals	Journal of Environmental Science, Computer Science and Engineering & Technology	2017	6 (523-530)	2278–179X	-
7	N.Suresh, <b>J.Arumugam</b> , R.Ragavendiran, S.Karthikeyan M.Selvapandiyan,	Growth and Characterizations of L-Asparagine Single Crystals	Journal of Emerging Technologies and Innovative Research (JETIR)	2018	5 (81-85)	2349-5162	-
8	<b>J.Arumugam</b> , M. Selvapandiyan, C. Senthilkumar, M. Srinivasan, P. Ramasamy	Effect of NaCl on the properties of sulphamic acid single	Journal of Heliyon	2019	5 (e01988)	2405-8440	<b>3.4</b>
9	N. Suresh, M. Selvapandiyan, <b>J.Arumugam</b> , S. Sudhakar,	Crystal growth, structural, optical, magnetic and thermal properties of pure and thiourea doped L-alanine single crystals for nonlinear optical applications	Journal of Metallurgy and Materials Science	2019	61(1-9)	0972-4257	<b>2.0</b>
10	<b>J.Arumugam</b> , M. Selvapandiyan, C. Senthilkumar, M. Srinivasan,	Effect of MgSO <sub>4</sub> on sulphamic acid single crystals and their structural, optical, mechanical, thermal and third order non-linear	Journal of Materials Chemistry and Physics	2020	242(122479)	0254-0584	<b>4.3</b>

	P. Ramasamy,	optical studies”					
12	<b>J. Arumugam,</b> M. Selvapandiyan, Senthilkumar Chandran, M. Srinivasan, P. Ramasamy,	Crystal growth, optical, thermal, mechanical and third-order nonlinear optical properties of L-lysine hydrochloride- doped sulphamic acid single crystals for optical applications,	Applied Physics A Materials Science & Processing,	2020	126 (888)	0947-8396	<b>2.5</b>
13	<b>J. Arumugam,</b> M. Selvapandiyan, Senthilkumar Chandran, M. Srinivasan, P. Ramasamy, P. Karuppasamy,	Optical, thermal and nonlinear optical properties of amaranth dye-doped sulphamic acid single crystals,	Journal of Materials Science: Materials in Electronics	2020	31(13173- 13815)	0957-4522	<b>2.8</b>
14	<b>J. Arumugam,</b> M. Selvapandiyan, Senthilkumar Chandran, M. Srinivasan, P. Ramasamy,	Crystal growth, optical, thermal, laser damage threshold, photoconductivity and third- order nonlinear optical studies of KCl doped sulphamic acid single crystals,	Journal of Materials Science: Materials in Electronics,	2020	31(6084-6096)	0957-4522	<b>2.8</b>

15	<b>J. Arumugam</b> S. Thambidurai S. Suresh M. Selvapandiyan M. Kandasamy N. Pugazhenthiran S. Karthick Kumar T. Muneeswaran Franck Quero	Green synthesis of zinc oxide nanoparticles using Ficus carica leaf extract and their bactericidal and photocatalytic performance evaluation	Chemical Physics Letters	2021	783 (139040)	0009-2614	<b>2.8</b>
16	S Venkatesan S Suresh P Ramu <b>J Arumugam</b> S Thambidurai N Pugazhenthiran	Methylene blue dye degradation potential of zinc oxide nanoparticles bioreduced using Solanum trilobatum leaf extract	Results in Chemistry	2022	4(100637)	2211-7156	<b>2.5</b>
17	S Venkatesan S Suresh P Ramu M Kandasamy <b>J Arumugam</b> S Thambidurai KM Prabu	Biosynthesis of zinc oxide nanoparticles using Euphorbia milii leaf constituents: characterization and improved photocatalytic degradation of methylene blue dye under	Journal of the Indian Chemical Society	2022	99(100436)	0019-4522	<b>3.2</b>

	N Pugazhenthiran	natural sunlight					
18	S Suresh S Thambidurai <b>J Arumugam</b> M Kandasamy N Pugazhenthiran D Balaji, Bandar Ali Al-Asbahi N Ramesh Reddy A Arunkumar T Muneeswaran	Antibacterial activity and photocatalytic oxidative performance of zinc oxide nanorods biosynthesized using Aerva lanata leaf extract	Inorganic Chemistry Communications	2022	139(109398)	1387-7003	<b>4.4</b>
19	S Thambidurai <b>J Arumugam</b> M Kandasamy D Balaji N Pugazhenthiran R Jothilakshmi B Sathish Kumar K Murugesan S Karthick Kumar T Muneeswaran K Jayakumar S Suresh	Vitex negundo and Euphorbia milii leaf extracts aided green synthesis of copper oxide nanostructures for effective inactivation of pathogenic bacteria	Chemical Physics Letters	2023	832(140881)	0009-2614	<b>2.8</b>







20	S Venkatesan S Suresh <b>J Arumugam</b> P Ramu N Pugazhenthiran R Jothilakshmi KM Prabu	Sunlight assisted degradation of methylene blue dye by zinc oxide nanoparticles green synthesized using Vitex negundo plant leaf extract	Results in Chemistry	2024	7(101315)	2211-7156	<b>2.5</b>
21	N Pugazhenthiran V Vinoth P Rameshkumar S Suresh P Sathishkumar M Kandasamy S Karthick Kumar R Jothilakshmi K Sivaramasundaram S Thambidurai <b>J Arumugam</b>	Photochemical synthesis of gold nanoprisms decorated reduced graphene oxide for electrochemical sensing of bovine serum albumin	Inorganic Chemistry Communications	2025	172(113739)	1387-7003	<b>4.4</b>
22	M.Kandasamy, S.Suresh, P. Sathishkumar, P. Gunnasegaran, N. S. Thambidurai, <b>J. Arumugam</b> , R. Jothilakshmi, N. Pugazhenthiran	Green Synthesis of Ultrafine Zinc Oxide Nanoparticles for Photocatalytic Degradation of Methylene Blue Dye: Optimization and Kinetic Studies	Results in Engineering	2025	27(105846)	2590-1230	<b>7.9</b>

## X. LIST OF BOOK PUBLISHED AS A SINGLE AUTHOR OR EDITOR

S.No	Authors Name	Title of the Book	Name of the Publisher	Year	ISBN
1.	R.Arivuselvi , <b>J.Arumugam</b> et al	A Text book Major Physics Practicals	Raja Publication Tirchi	2017	978-93-80394-43-5
2.	R.Arivuselvi , <b>J.Arumugam</b> et al	A Text book Major Physics Practicals	Thannambikkai Publication Coimbatore - 41	2016	978-93-84234-85-0
3.	R.Arivuselvi , <b>J.Arumugam</b> et al	A Text book Major Physics Practicals	Royal Publication Coimbatore – 41	2021	789391 -131760
4.	M. Selvapandiyan, S. Janarthanan, E. Elanchezhian, <b>J. Arumugam</b>	Quantum Mechanics	Shanlax Publications 61, 66 Vasantha Nagar, Madurai.	2015	-
5.	<b>J. Arumugam,</b> K. Venkatesan, M. Vaanmathi,	Space Science	Royal Book Publishing Coimbatore – 41	2019	-

6.	<b>J. Arumugam,</b> K. Venkatesan, M. Vaanmathi,	Fundamentals of Microprocessor	Royal Book Publishing Coimbatore – 41	2019	-
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**XI. List of Conferences / Workshops / Seminars/Faculty Development Programme Participated/ Paper Presented (National/ International Level) and Invited Talk**

-  Paper Presented in International Conferences = **10**
-  Paper Presented in National Conferences = **15**
-  Participated in Seminars/Workshop/ FDP = **20**
-  Invited Talk in Conferences / Workshops / Seminars/ (National/ International Level) = **-**

**XII. List of Workshops / Seminars/ Inspire Camps Organized with External Funding Agencies**

S.No	Title of the Program	Sponsored/collaboration	Date, Month and Year	Nature of the Work
1	Young Student Scientist Programme – 2019	Sponsored by TNSCST, Tamil Nadu	03 – 17 May 2019	Organizing Member
2	Science Academies' Lecture Workshop in Recent Trends in Applied Physics for Technology	Sponsored by	21 & 22 July, 2017	Organizing Member

	(SALWRTAPT)	Indian Academy of Sciences (Bangalore) Indian National Science Academy (New Delhi) The National Academy of Sciences (Allahabad)		
3	Inspire Camp 2016	Sponsored by DST, India	24 – 28 September 2016	Organizing Member
4	Science Academies Lecture workshop on recent trends in Materials Science	Sponsored by Indian Academy of Sciences (Bangalore) Indian National Science Academy (New Delhi) The National Academy of Sciences (Allahabad)	2 & 3 Jan 2015	Organizing Member
5	Inspire Camp 2015	Sponsored by DST, India	26 – 30 September 2015	Organizing Member
6	Creation of Scientific Awareness Programme 2013 (CSAP 2013)	Sponsored by TNSCST, Tamil Nadu	29 – 31 January 2013	Organizing Member

### **XIII. List of Conferences / Workshops Organized with Internal Funding Agencies**

<b>S.No</b>	<b>Title of the Program</b>	<b>Sponsored/collaboration</b>	<b>Date, Month and Year</b>	<b>Nature of the Work</b>
1	National Symposium on Materials Innovation and Leading Exploration	Collaboration with Indian Spectro Physics Association, Chennai.	27 & 28 December 2024	Organizing Secretary
2	International Conference on Research in Emerging Advanced Materials and Spectroscopy (ICREAMS 2024)	Collaboration with Indian Spectro Physics Association, Chennai.	21 & 22 February 2024	Organizing Member
3	International Virtual Conference on Physics of Emerging Materials and Molecules (IVCPEMM 2021)	Collaboration with Indian Spectro Physics Association, Chennai.	04 & 05 March 2021	Organizing Member
4	International workshop on Recent Advances in Material Science	Sri Vidya Mandir Arts & Science College, Katteri, Uthangarai, Krishnagiri(D.T), Tamilnadu.	14 February 2019	Organizing Member
5	International Conference on Modern Materials & Research 2016 (ICMMR 2016)	Collaboration with Indian SpectroPhysics Association, Chennai.	19 & 20 December 2016	Organizing Member
6	National Conference on Advanced Materials 2014 (NCAM 2014)	Collaboration with Indian SpectroPhysics Association, Chennai.	18 & 19 July 2014	Organizing Member
7	International Conference on Recent Advances in Physics 2013 (ICRAP 2013)	Collaboration with Indian SpectroPhysics Association, Chennai.	12 & 13 August 2013	Organizing Member
8	National Conference on Recent Advances in Physics 2012 (NCRAP – 2012)	Collaboration with Indian Spectro Physics Association, Chennai.	20 & 21 July 2012	Organizing Member

#### XIV. List of Co - Curricular and Extension Activities

Sl. No.	Name of Co-curricular and Extension Activities	About the Activity (Provide a brief write-up)	Year / Period of Activity
1	Discipline Committee (DC) Member	Monitoring and regulate the students in discipline aspects	June 2012 – Till Date
2	Board of Studies (BoS)- Physics in SVMASC  Board Member	The Board of Studies is a statutory body and reports to the Academic Council through the Head of department Concerned. Each Academic Department shall have a Board of Studies. All academic matters like Introduction of a new Academic Programme, Revision of a programme / course, review of academic rules, etc. shall be handled by the board of studies.	<b>June 2020- Till date</b>

## XV. Awards

Sl. No.	Title of the Award	Organization Confer the Award	Purpose	Year
1	Best Teacher Award	Sri Vidya Mandir Arts & Science College, Katteri, Uthangarai, Krishnagiri (D.T), Tamilnadu.	Academic	2014
2	Best Paper present Award	St.Peters Institute of Higher Education and Research, Avadi, Chennai	Academic	2016

## XVI- Reviewer

S.No	Name of the Reviewer	Journal Name	Year
1	Dr. J. Arumugam	1.Journal of Alloys and Compounds (Elsevier –Impact Factor-6.3) 2. Next Materials (Elsevier - Cite Score-1.9) 3. Biomass Conversion and Biorefinery (Springer-Impact Factor-4.1) 4. Journal of Nanotechnology (Wiley Online Library-Impact Factor-4.1) 5. Advanced Composites and Hybrid Materials (Springer-Impact Factor-16.8)	June 2023 to Till Date

Date: 15/07/2025

Place: Katteri, Uthangarai

**J. Arumugam**