

CURRICULUM VITAE

1. Name : Dr. S. Saravanan
2. Age & Date of Birth : 54 Years, 14.02.1966
3. Designation & Subject : Associate Professor and Head, Physics
4. Educational Qualification : M.Sc., M.Phil., B.Ed., P.G.D.C.A., Ph.D.
5. Date of Appointment : 13.03.2000
6. Date of Retirement : 14.02.2024
7. Spouse Name and Occupation : G.Revathy, Home Maker



8. Qualifications – Academic:

Examinations passed	Register Number	Month & Year of passing	Subject	Class with Marks or Grade	Name of the College/University
B.Sc.,	663027	1986	Physics	First Class, 1491/1800	Madurai Kamaraj University
M.Sc.,	86PGP5	1988	Physics	First Class, 1291/2100	Madurai Kamaraj University
B.Ed.,	255179	1990	Physics	Second Class, 581/1000	Madurai Kamaraj University
M.Phil.,		1992	Physics	First Class, 280/400	Annamalai University
Ph.D.		2018	Physics		Bharathiar University

9. Teaching Experience

Sl. No.	Place of Service	Period		Designation
		From	To	
1	Jeyaraj Cheladurai College of Arts & Science, Periyakulam	March 1994 to March 1998		Lecturer
2	G.T.N. Arts College, Dindigul	13 th March 2000 to Till Date		Associate Professor

10. Total Teaching Experience as on May 2022:

Under graduate - 26 Years

- 11. Area of Specialisation** : i) Teaching - Electronics
ii) Research - Semiconductor Nano Materials

12. Research Project – Minor/Major

Sl. No.	Minor/Major	Title of the Project	Date of Submission	Period of the Project	Amount Sanctioned	Sponsoring Agency
1	Minor	Investigations On Effects Of Extrnal Perturbations On Excitonic Structure And Some Non –Linear Optical Properties In Inas/Inp Semiconductor Nanostructure		2015-2016	2.5 Lakh	U.G.C

13. Orientation Course, Refresher, Short Term Courses Attended

Sl. No.	Name of the Institution/University	From	To
1	Bharathiar Univerity, Coimbatore	06.09.2006	26.09.2009
2	Bharathidasan University, Tiruchirappalli	02.11.2006	29.11.2006
3	Bharathidasan University, Tiruchirappalli	08.08.2009	28.08.2009
4	Bharathidasan University, Tiruchirappalli	10.11.2010	30.11.2010
5	Government Arts College, Melur	08.02.2016	20.02.2016

14. Seminars/Workshops/Conferences/Symposium – Participation

Sl. No.	Theme of Seminar / Workshops / Conferences/ Symposium	Institution/Organisation	Date
1	National Level Seminar on X-Ray Crystallography	N.M.S.S.V.N. College, Nagamalai, Madurai	14.02.2014
2	International Symposium on Nano Structures for Photovoltaic Applications	Fatima College (Autonomous), Madurai	19.02.2014
3	National Level Workshop on Computational Physics using Gaussian	N.M.S.S.V.N. College, Nagamalai, Madurai	13.02.2015
4	Lecture Workshop on Recent Trends in Advanced Material Science, Sponsored by Indian Science Academies	Arulmigu Palaniandavar College of Arts & Culture, Palani	01.09.2017 and 02.09.2017
5	Lecture Workshop on Interaction of Radiation with Matter	Government Arts College, Melur	21.12.2017 and 22.12.2017

15. Seminars/Workshops/Conferences/Symposium – Paper Presentation

Sl. No.	Title of the Paper	Seminar / Workshop / Conference	Institution where Attended	Year
1	Some Optical Properties in Low Dimensional Semiconductors	National Conference on Recent Developments in Physics	Govt., Arts and Science College, Melur	2013
2	Intersubband Optical Transition in a Narrow Bandgap Material for Telecommunication Applications	National Conference on Latest Trends in Physics for Inter-Disciplinary Advancements	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam	2014
3	Narrow Band Gap Semiconductor for Mid-Infrared Fibre Telecommunication Network – An Overview	International Seminar on Recent Advances in Nano Semiconductors	G.T.N. Arts College, Dindigul	2014
4	Non-Linear Optical Properties of Group III-V Semiconductor for Potential Applications	State Level Conference on Recent Trends in Material Science and Energy Science	Arulmigu Palaniandavar Arts College for Women (Autonomous), Palani,	2014

5	Interband Optical Transition Energies in a Narrow Band Semiconductor Quantum Wire	3 rd National Conference on Advanced Functional Materials and Applications (NCAFMA-2014)	Kalasalingam University , Srivilliputhur	2014
6	Binding energy of a magento – exciton in an InAsP quantum well wire for the potential application of telecommunication network	International Conference on Advances in New Materials (ICAN- 2014)	University of Madras, Chennai	2014
7	Optical susceptibility of generation of second harmonic co-efficients in a strained InAs _{1-x} P _x / InP quantum wire	International Conference on Nanoscience and Engineering Applications (ICONSEA – 2014),	Jawaharlal Nehru Technological University (JNTU), Hyderabad	2014
8	Optical Gain in InAs/InP Quantum Wire	National Seminar on Exploration on Properties of Materials	Govt., Arts and Science College, Melur	2014
9	Simultaneous effects of magnetic and electric fields on the second harmonic generation in InAs _{1-x} P _x /InP nano wire	4 th International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics with Applications (CDAMOP– 2015),	University of Delhi, New Delhi	2015
10	Effect of Pressure on Optical Gain in InAsP/InP Quantum Well Wire	National Level Seminar on Recent Advances in Chemistry (RAC – 2015)	G.T.N. Arts College Dindigul	2015
11	Effect of External Perturbations on Optical Gain in InAsP/InP Nano Wire	National Level Seminar on Semiconductor Materials and Device Processing for Energy Applications	Arulmigu Palaniandavar Arts College for Women (Autonomous), Palani,	2015
12	Simultaneous Effects of Magnetic & Electric Fields on the Second Harmonic Generation in InAsP/InP Nanowire	State Level Seminar on Advanced Material Science	Sacred Heart College of Arts and Science, Dindigul	2015
13	Interband Optical Transition Energies in InAs/InP Semiconductor Nanostructure	International conference on Nanomaterials for Frontier Applications (ICNFA–2015)	Coimbatore Institute of Technology (C.I.T), Coimbatore,	2015
14	Optical gain for the interband optical	60 th Solid State Physics symposium 2015,	Amity University, Noida	2015

	transition in InAsP/InP quantum well wire in the influence of laser field intensity	Department of Atomic Energy (DAE),		
15	Optical gain in InAs _{0.8} P _{0.2} /InP quantum well wire in the influence of laser field effect	International Conference on Materials for the Millennium (MATCON- 2016)	Cochin University of Science and Technology, Kochi,	2016
16	Interband optical transition energies in a narrow band semiconductor quantum wire	International Conference on Recent Trends in Materials (ICRTM-2016),	Devanga Arts College, Aruppukottai,	2016
17		State Level Seminar on Emerging Trends in Medical Physics	Arulmigu Palaniandavar College of Arts & Culture, Palani	2016
18	Optical susceptibilities of harmonic generation in a group III-V quantum wire in the presence of temperature	Conference on Emerging Materials (CEMAT-2016)	Indian Institute of Science, Bangalore	2016
19		National Level Seminar on Applications of Quantum Mechanics and Nano Materials for Energy Storage	Arulmigu Palaniandavar College of Arts & Culture, Palani	2018

16. Seminars/Workshops/Conferences/Symposium – Organised

1	International Seminar on Recent Advances in Nano Semiconductors, G.T.N. Arts College, Dindigul on 24.02.2014
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**17. List of Publications
International Journals**

Sl. No.	Title of the Article	Name of the Journal	Volume, Year, Page No.	ISSN No.	Impact Factor	Scopus Index Yes / No
1	Absorption coefficients for inter band optical transitions in a strained $\text{InAs}_{1-x}\text{P}_x/\text{InP}$ quantum wire	Journal of Luminescence	147 (2014) 34-40			
2	Combined effects of magnetic and electric fields on the inter band optical transitions in InAs/InP Quantum wire	Physica E,	67(2015) 99-104			
3	Pressure induced interband optical Transitions in an $\text{InAs}_{0.8}\text{P}_{0.2}/\text{InP}$ Quantum Wire	Phase Transitions,	88 (2015) 1147-1569.			
4	Temperature dependent optical transitions in InAs/InP quantum well wire	Journal of Advanced Physics	5 (2015) 1-7			
5	Phonon effects on interband optical transitions In $\text{InAs}_{0.8}\text{P}_{0.2}/\text{InP}$ quantum wire	Journal of Luminescence,	169(A) (2016) 86 – 92			
6	Laser field induced optical gain in a Group III-V quantum wire	European Physical Journal D				
7	Binding energy of a magento – exciton in an InAsP quantum well wire for the potential application of telecommunication networks	International Journal of Innovative Research in Science and Engineering	2 (1) , (2014) 681 – 687	ISBN : 978-81-89843-57-		
8	Optical susceptibility of generation of Second Harmonic co-efficients in a strained $\text{InAs}_{1-x}\text{P}_x / \text{InP}$ quantum wire	International Conference on Nanoscience and Engineering Applications	27-28 2014	ISBN: 978-81-924726 -2 - 1		

9	Simultaneous effects of magnetic and electric fields on the second harmonic generation in $\text{InAs}_{1-x}\text{P}_x/\text{InP}$ nano wire	Journal of Atomic, Molecular, Condensate and Nano Physics		ISSN 2349 – 2716		
10	Interband optical transition energies in InAs/InP semiconductor nanostructure	International Journal Theoretical and Applied Technology (IJTAN)				
11	Optical gain for the interband optical transition in InAsP/InP quantum well wire in the influence of laser field intensity	AIP Proceedings				
12	Optical gain in $\text{InAs}_{0.8}\text{P}_{0.2}/\text{InP}$ quantum well wire in the influence of laser field effect			ISBN : 978-93-80095-738 (Volume II)		

18. Membership in Academic Bodies / Editorial Boards and Board of Studies

1. Member of Board of Studies in Arulmigu Palaniandavar College for Women (Autonomous) , Palani
2. Member in Editorial Board in Jayaraj Annapackiam College for Women (Autonomous), Periyakulam

19. Paper Setters / Examiner ship in other Institutions

1. Question Paper Setter and Examiner in Saraswathi Narayanan College, Madurai, V.V.V. College, Virudhunagar, G.V.G. Arts College, Udumalaipet, H.R.K.M.College, Uthamapalayam, Devangar Arts College, Arupukottai, Vivekananda College, Thiruvudagam, Madurai , Mannar Thirumalai Naickar College, Madurai, Sourashtra College, Madurai,and Arulmigu Palaniandavar College for Women, Palani.