

CURRICULUM VITAE



1.	Name	Dr. R.T. Ananth Kumar				
2.	Position	Assistant Professor				
3.	Qualification	M.Sc., M.Phil., B.Ed., Ph.D, Post Doctorate Fellow				
4.	Department	Physics				
5.	Area of Specialization	Material Science				
6.	Research Interests	Chalchogenide thin films for Electrical switching application.				
7.	Impact of Research	Total International journal publication	Total impact factor	Citations	h-index	Total Conference presentation
		17	28.663	64	5	11
8.	Links for publications	https://www.researchgate.net/profile/Ananth_KumarRT www.scopus.com/authid/detail.uri?authorId=55958994800				
9.	Countries visited for academic work	Japan, China, United Arab Emirates (UAE)				
10.	Mailing address (College)	Dr. R.T. Ananth Kumar, Assistant Professor of Physics, Sree Ayyappa College (Govt. Aided), Eramalikkara, Pin – 689 109, Chengannur, Alappuzha District, Kerala				
11.	E-mail	ananthkumarrt@gmail.com				
12.	Mobile/Phone No.	+91-9847572822				
13.	Date of joining	05/11/2018				
14.	Academic History					
		Degree	Institution			
	a)	Post Doctorate Fellow (Physics)	United Arab Emirates University, UAE			
	b)	Ph.D Physics	Manonmaniam Sundaranar University, Tirunelveli			
	c)	M.Phil. Physics	Manonmaniam Sundaranar University, Tirunelveli			
	d)	M.Sc Physics	V.H.N.S.N College, Virudhunagar			
	e)	B.Ed Physical science	Ruben College of Education, Nagercoil			
f)	B.Sc. Physics	Scott Christian College, Nagercoil				
15.	Faculty Job Experience					
		Position	Institution	Year		
	a)	Assistant Professor	Sree Ayyappa College, Chengannur	2018 to until		
	b)	Assistant Professor	N.M.S.S.V.N College, Madurai	2015-2016		
c)	Assistant Professor	N.S College of Engineering, Padanthalumoodu	2014-2015			
16.	Grants received					
		Funding Agency	Year	Amount		
	a)	Kerala State Council for Science, Technology and Environment, Government of Kerala	2018-2019	Rs. 18,650		

17	Awards/Honours/Prizes			
		Name	Year	
	a)	Active SPOC, NPTEL, IIT Madras, Chennai	2019-2020	
18	Academic Co-ordinator in College			
		Position	Name of event	Year (From)
	a)	Single Point of Contact (SPOC)	NPTEL, IIT Madras, Chennai	2019-2020
	b)	Convener	Centre for Incubation and Entrepreneurship	2019-2020
	c)	Convener	Advance certificate programme on Skill Development courses & Value added courses	2019-2020
	d)	Editor & Convener	College Newsletter Committee	2019-2020
	e)	Joint Convener & Criterion IV Member	Internal Quality Assurance Cell (IQAC)	2019-2020
	f)	Member	Website committee & IT cell	2019-2020
	g)	Member	Unnat Bharat Abhiyan	2019-2020
	h)	Member	INFOFEST	2018-2019
	i)	Member	Outreach Programme Committee	2019-2020
j)	Member	Silver Jubilee year 2019-2020 Executive committee	2019-2020	
19	Conference/Seminar/Workshop organized			
		Position	Topic	Date
	a)	Convener	One day seminar on Wetland friendly Solar Energy sources for climate change	31 st January, 2019
	b)	Co-convener	National conference on Energy and Environment	15 th & 16 th Feb., 2019
c)	Co-convener	Exhibition-The Energerium	15 th February, 2019	
20	Publications (Edited Books)			
		Topic	ISSN & Press	Year
a)	Recent Trends in Energy & Environment	978-81-936117-9-1, GRENZE Scientific Society, 2019, Trivandrum	2019	
21	Total International Journal publications : 17			
	At Sree Ayyappa College : 2			
		Topic	Journal, Volume, Year, Page	Impact Factor
	i)	Photoresponse investigation of Polycrystalline GaSb thin films	AIP Advances, 10 (2020) 035201	1.579
	ii)	Role of thickness and annealing temperature on the structural ordering in vacuum evaporated selenide thin films	Energy Sources, (2019) https://doi.org/10.1080/15567036.2019.1654566	0.894
	During Post Doctorate : 7			
	iii)	Temperature dependence capacitance-voltage characteristics for GeTe ₂ thin films.	Journal of Alloys and Compounds, 694 (2016) 163	3.133
	iv)	Evolution of strcural disorder in amorphous GeSeS thin films by thickness variation	Journal of Non Crystalline Solids, 450 (2016) 135	2.124
	v)	Synthesis and photoluminescence enhancement of pure CdO: Annealing effect study.	Journal of Luminescence, 198 (2018) 289	2.686
	vi)	Optimization of substrate temperature and	Thin solid Films, 631 (2017)	1.879

		characterization of tin oxide based transparent conducting thin films for application in dye-sensitized solar cells.	1		
	vii)	Synthesis and characterization of hybrid organic-inorganic nanocomposite for photocatalytic application	Applied Physics A, 124 (2018) 672	1.784	
	viii)	Study on electrical switching behaviour of Ge-Se-S and Ge-Se _{0.5} -S _{1.5} thin films	Optik, 152 (2018) 1	0.835	
	ix)	Scrutiny of structural disorder using Raman spectra and Tauc parameter in GeTe ₂ Thin Films	Journal of Physics: Conference series	nil	
		During Ph.D: 8			
	x)	Enhancement in threshold voltage with thickness in memory switch fabricated using GeSe _{1.5} S _{0.5} thin films	Journal of Alloys and compounds, 615 (2014) 629	3.133	
	xi)	Evolution of structural disorder using Raman spectra and Urbach energy in GeSe _{0.5} S _{1.5} thin films	Journal of Non crystallization solids, 405 (2014) 21	2.124	
	xii)	Influence of thickness on the optical properties of amorphous GeSe ₂ thin films: analysis using Raman spectra, Urbach energy and Tauc parameter	Philosophical Magazine, 92 (2012) 1422	1.825	
	xiii)	Optical, photo-acoustic and electrical switching studies of amorphous GeSe ₂ thin films	Applied Physics A, 115 (2014) 1151	1.444	
	xiv)	Growth and characteristics of amorphous Sb ₂ Se ₃ thin films of various thicknesses for memory switching applications	Journal of Non crystallization solids, 429 (2015) 93	2.124	
	xv)	Effect of cobalt substitution on the optical properties of bismuth ferrite thin films	Material Science in semiconducting processing, 34 (2015) 109	2.264	
	xvi)	Growth, structural, Vibrational, Mechanical and Dielectric studies of KSbF ₄ crystal.	Optik, 127 (2016) 55	0.835	
	xvii)	Influence of heat treatment on the optical properties of GeSe ₂ thin films	American institute of Physics: Conf. Proceed., 1451 (2012) 130	nil	
22	International Conference presentations at foreign countries as oral : 3				
		Topic	Name of conference	Institution/Country	Date
	i)	Structural and optical properties of GeTe ₂ thin films: The role of annealing temperature	Frontiers in Theoretical and Applied Physics	American University of Sharjah, Sharjah, UAE	Feb. 22-25, 2017
	ii)	The race of phase change memory materials: The role of Capacitance-Voltage behaviour	International workshop on Advanced Materials	Ras Al Khaimah, UAE	Feb. 19-21, 2017
	iii)	Thickness dependence optical	IUMRS-ICEM	Tokyo, Japan	Sept. 23-

	properties of GeS ₂ thin films: Analysis using Tauc parameter and Urbach energy	2012		28, 2012
International conference presentations inside India : 3				
iv)	Structural and electrical characterization of vacuum evaporated Bi ₂ Te ₃ thin films	School on glass formers and glasses	Jawaharlal Nehru centre for Advanced Scientific Research (JNCASR), Bengaluru	Jan. 4-20, 2010
v)	Thermal-induced blue shift in Ge- chalcogenide thin films	INDO-ITALIAN Advanced level workshop on semiconductor Nanostructures, Ultra thin films and applications.	Anna University, Chennai	Sept. 8- 10, 2010
vi)	Electrical switching and photoacoustics behaviour of Chalcogenide GeS ₂ thin films	International conference on Thin films and applications	Sastra University, Thanjavur	Sept. 11- 13, 2013
National level conference presentation : 5				
vii)	Enhancement in threshold voltage of memory switch fabricated with GeSe _{1.5} S _{0.5} thin films	Winter School 2013	Jawaharlal Nehru centre for Advanced Scientific Research (JNCASR), Bengaluru	Dec. 02- 06, 2013
viii)	Thickness dependent memory type electrical switching behaviour in GeSe ₂ thin films	DAE BRNS	Bhamic Atomic Research Centre (BARC), Mumbai, India	Dec. 9- 13, 2014
ix)	Influence of heat treatment on the optical properties of GeSe ₂ thin films	Indian vacuum society symposium on thin films: Science & Technology.	Bhamic Atomic Research Centre (BARC), Mumbai, India	Nov. 9- 11, 2011
x)	Thickness induced structural change in GeSe ₂ thin films	National Laser symposium	Raja Ramanna Centre for Advanced Technology (RRCAT), Indore, Madya Pradesh	Dec.1-4, 2010
xi)	Effect of annealing on the optical properties of the vacuum evaporated Bi ₂ Te ₃ thin films	Materials: Nano to Macro dimensionality and their varied applications	Manonmaniam Sundaranar University, Tirunelveli	Jan. 29, 29, 2010

23	Selected workshops as participation				
		Topic of event		Institution	Date
	i)	UGC settlement meeting & workshop on PFMS-EAT module		St. Joseph's College (Autonomous), Thrissur, Kerala	3 rd June, 2019
ii)	NPTEL workshop for SPOC's (South zone)		Indian Institution of Technology, Madras, Chennai	26 th July, 2019	
24	Research Experience during Ph.D				
	Position	Funding Agency	Topic	Period	Amount
	Project Fellow	UGC	Photoinduced properties and impedance analysis of Ge-chalcogenide thin films towards optical/resistive switching application.	2010 to 2013	Rs. 11,44,800
25	Any other	NCC "C" certificate holder (Indian Army wing)			