CURRICULAM VITAE

Dr. Ramesh B
Lecturer in Physics
Department of Physics
Government Degree College
Nagari, Chittoor District
ANDHRA PRADESH - 517 590, INDIA.

d: +91-95730 65618

ூ: jairam.ramesh1@gmail.com



Objective: To associate with multi-dynamic institute, this may provide a platform to update my knowledge & skills in accordance with latest trends in teaching along with research that follows a tradition of anticipating & leading changes.

Short Introduction: Five Year Integrated M.Sc. Physics (2012), APSET in **Physical Sciences** for Assistant Professor, 2007. Awarded M.Phil., (2015) & Ph.D. in Physics (2018) from Sri Venkateswara University, Tirupati.

Academic Qualifications:

QUALIFICATION	UNIVERSITY/BOARD	YEAR
Ph. D. (Physics)	Sri Venkateswara University, Tirupati	April-2018
	Andhra Pradesh, India	
M. Phil. (Physics)	Sri Venkateswara University, Tirupati	September-2015
	Andhra Pradesh, India	
B. Ed.	Sri Venkateswara University, Tirupati	July-2013
Five Year Integrated	Sri Venkateswara University, Tirupati	April-2012
M. Sc. (Physics)	Andhra Pradesh, India	
Intermediate	Board of Intermediate Education, Hyderabad,	March-2007
	Andhra Pradesh, India	
SSC	Board of Secondary Education, Hyderabad,	March-2005
	Andhra Pradesh, India	

Additional Qualification:

Andhra Pradesh State Eligibility Test (APSET)-2017 (H.T. No: 062201696)

Present Position:

Lecturer in Physics, Govt. Degree College, Nagai – 517 590, A.P. (14-07-2021to date)

Professional Experience:

Post Graduate Teacher in Physics, AP Model School, B. Kothakota, A.P. (23-12-2019 to 13-07-2021)

Extra-Curricular Activities (Teaching/Social/Cultural/Examination)

S.No.	Activity	Organizer/University/College	Place and Date
1	Co-ordinator for RUSA & NADU-NEDU Committee	GDC, Nagari	Nagari, 18-10-2021
2	Member in Examination Committee	GDC, Nagari	Nagari, 18-10-2021
3	Member in A.V. Education Committee	GDC, Nagari	Nagari, 18-10-2021
4	Member in UGC Committee	GDC, Nagari	Nagari, 18-10-2021
5	In-charge of Digital Class rooms	GDC, Nagari	Nagari, 18-10-2021

Title of Thesis:

"Investigation on the spectral behavior of Sm³⁺, Tb³⁺ ions doped borate and phosphate based phosphors for solid state lighting applications".

Synopsis:

To date, as energy saving devices like phosphor converted LEDs are emerging as an essential solid state light source for the next generation lighting industry with superior luminescence capacity, longer duration time, and tunable optical performance. The thesis enlightens the borate and phosphate systems such as $NaSrB_5O_9$ and $CaZn_2(PO_4)_2$ have an abundant scope to study the luminescence properties in relation with their crystal structures. Meanwhile, Sm^{3+} and Tb^{3+} activated host systems have good absorptions in the n-UV region and also well matching with the emissions of UV chip. The main objective of the present research work is to investigate the spectral behavior of Sm^{3+} , Tb^{3+} ions borate and phosphate based $NaSrB_5O_9$ and $CaZn_2(PO_4)_2$ phosphors for solid state lighting applications.

Research Experience:

DST-SERB Project:	01-07-2014 to 31-03-2015
Junior Research Fellow, SVU College of Sciences, Tirupati, A.P., INDIA	
NFHEST-JRF	01-04-2015 to 31-03-2017
NFHEST-SRF	01-04-2017 to 21-04-2018

Academic Awards/Fellowships:

NFHEST-JRF	UGC, Govt. of India	01-04-2015 to 31-03-2017
NFHEST-SRF	UGC, Govt. of India	01-04-2017 to 21-04-2018
Andhra Pradesh State Eligibility Test (APSET)-2017	Govt. of Andhra Pradesh	30-07-2017

Membership of Professional/Academic Bodies:

Life Member	Indian Science Congress Association (ISCA), L34323
Life Member	Indian Laser Association (ILA), LM-1099
Life Member	Photonic Society of India (PSI), 265

Expertise:

- Luminescence materials
- Material characterization
- Photonics

Publications:

S.	Title	Name of the	Year	Citation
No.		publisher/Journal with		Index/Impact
		ISBN/ISSN Number		Factor
01	Study of optical properties and up-conversion	Optik 171 (2018) 918-924	2018	1.191
	mechanism in Nd ³⁺ /Yb ³⁺ ions co-doped SiO ₂ -	ISSN: 0030 – 4026		
	Al ₂ O ₃ -Na ₂ CO ₃ -SrF ₂ -CaF ₂ glasses for green			
	light emitting display device applications			
02	Structural studies of a green-emitting terbium	Journal of Molecular	2018	2.011
	doped calcium zinc	Structure 1155 (2018)		
	phosphate phosphor	568-572		
		ISSN: 0022 - 2860		
03	Luminescence properties of CaZn ₂ (PO ₄) ₂ :Sm ³⁺	Optik 156 (2018) 906–	2018	1.191
	phosphor for lighting application	913		
		ISSN: 0030 - 4026		
04	Facile one-pot synthesis of hexagons of	Mater. Res. Express 4	2017	1.151
	NaSrB ₅ O ₉ :Tb ³⁺ phosphor for solid-state	(2017) 046201		
	lighting	ISSN: 2053 – 1591		
05	Determination of strain, site occupancy,	Ceramics International 42	2016	3.057
	photoluminescent, and thermoluminescent-	(2016) 1234–1245		
	trapping parameters of Sm ³⁺ -doped NaSrB ₅ O ₉	ISSN: 0272 – 8842		
	microstructures			
06	Photoluminescence studies of Eu ³⁺ ions doped	Advanced Materials	2016	1.46
	calcium zinc niobium borotellurite glasses	Letters 2016 (72) 170-174		
07	Dhatahaminasaanaa and daaay magaatiaa af	Advanced Metaricle	2015	1.46
07	Photoluminescence and decay properties of Sm ³⁺ and Dy ³⁺ in SrAl ₄ O ₇ phosphor	Advanced Materials Letters 6 (2015) 1111-	2015	1.46
	Sili and Dy III StA14O7 phosphot	1115		
08	Synthesis, photoluminescence and	Journal of Physics and	2015	2.207
	thermoluminescence properties of	Chemistry of Solids 86	2013	2.207
	LiNa ₃ P ₂ O ₇ :Tb ³⁺ green emitting phosphor	(2015) 170–176		
		ISSN: 0022 – 3697		
09	NIR fluorescence spectroscopic investigations	Journal of Luminescence	2015	2.732
	of Er ³⁺ -ions doped borate based tellurium	164 (2015) 154–159		
	calcium zinc niobium oxide glasses	ISSN: 0022 – 2313		
10	Characterization Studies of Green Derivitized	Nanomedicine and	2014	
	Silver Nanoparticles Using Ocimum	Nanobiology		
	tenuiflorum Leaf Extract and Their	1 (2014) 1–6		
11	Antibacterial Activity V. roy analysis and antical studies of Dy ³⁺	Journal of Allarya and	2014	3.779
11	X-ray analysis and optical studies of Dy ³⁺ doped NaSrB ₅ O ₉ microstructures for white	Journal of Alloys and Compounds 615 (2014)	2014	3.//9
	light generation	719–727		
	ngm generation	117-121		

	ISSN: 0925 – 8388	

Orientation/Refresher Courses/Schools/FDP/FIP Undergone:

S. No.	Name of the Course	Organized by	Duration			Year
			From	To	Weeks	
1	Faculty Induction Program (OC)	UGC-HRDC, Andhra University, Visakhapatnam	14-07-2022	10-08-2022	4	2022
2	Faculty Induction Program	Commissionerate of Collegiate Education in collaboration with GC (A) Ananthapur, PVKN GC (A) Chittoor, GCM (A) Kadapa & GCW (A) Kadapa	29-06-2022	03-07-2022	5 Days	2022
3	Online National level Teacher Development Program	FDP cell, Shantiniketan International School, Amaravati (MH)	10-06-2022	16-06-2022	1	2022
4	National level Faculty Development Program on "Renewable Energy for Sustainable Development"	Bharatratna Indira Gandhi College of Engineering, Solapur	01-03-2022	05-03-2022	1	2022
5	Intellectual Property Awareness/Training Program	Intellectual Property Office, India	23 rd February 2022	-	1 Day	2022
6	Faculty Development Program on Emerging Technologies and Teaching Pedagogies in Forensic Science	360° Forensic Association, Department of Forensic Science, Faculty of Science, SGT University, Gurugram	21-02-2022	25-02-2022	5 Days	2022
7	Online Faculty Development Program on "Information Security and Challenges (ISIC-2021)"	Department of Computer Science and Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj, Uttar	18-12-2022	22-12-2022	1	2021

		Pradesh, India				
8	Online Faculty Development Program on 'Advanced Materials and Applications'	Department of Physics, Presidency University	04-10-2021	08-10-2021	5 Days	2021
9	Online Faculty Development Program on "Research Tools & Methodologies"	Department of Mechanical Engineering, Lendi Institute of Engineering & Technology, Vizianagaram	27-09-2021	01-09-2021	1	2021
10	One week International Online Faculty Development Programme on "Research Tools and Methodologies"	Department of Mechanical Engineering, Lendi Institute of Engineering and Technology, Vizianagaram District, A.P., INDIA	27-09-2021	01-10-2021	1	2021
11	Two Week International Faculty Development Program on "Advanced Computational and Experimental Research in Physics-2021"	Department of Physics, SRM Institute of Science & Technology, Ramapuram Campus, Chennai, India	13-09-2021	25-09-2021	2	2021
12	One week Online International Faculty Development Programme on "Tools for Technical writing and Research data analysis (TTWRDA- 2020)"	Department of Computer Science, NERIM Group of Institutions, Guwahati, Assam, INDIA	01-09-2020	05-09-2020	1	2020
13	DST – SERC School on "Lasers and Nonlinear Optics"	Department of Physics, Pondicherry University, Puducherry, India	22-03-2016	11-04-2016	3	2016
14	5 th SERC School on Nonlinear Dynamics	Department of Physics, PSG College of Technology, Coimbatore, Tamil Nadu	01-12-2016	21-12-2016	3	2016

$Conferences/Seminars/Workshops/We binars\ Attended:$

S. No.	No. Name of the Conference / Seminars / Workshops 1 International Webinar on Modern Trends in Nanotechnology Physics & Electronics, SRR & CVR Government Degree College (A), Vijayawada		Dates
1			11 th March, 2022
2	National level webinar on Career Opportunities in Life Sciences	Department of Microbiology & Biotechnology, School of Basic Sciences, Faculty of Arts and Sciences, BIHER, Chennai	2 nd February 2022
3	One day National Level Webinar titled - Key concepts to Decode Reading	Department of English, K.R. College of Arts and Science, K.R. Nagar, Kovilpatti	29 th November 2021
4	International Webinar on "Research Methodology"	Department of Physics and Chemistry in association with IQAC, YVNR GDC, Kaikaluru	18-19 th November 2021
5	One Day Webinar on "Soil Physics"	Department of Physics, Kongu Engineering College, Perundurai, Erode, Tamil Nadu	13 th November 2021
6	Webinar on "Transport Properties of Nano- Crystalline Thin Films and its Applications" Departments of Physics, School of Basic and Applied Sciences, Harcourt Butler Technical University Kanpur, India		30 th October 2021
7	Webinar on "Synthesis, Characterization and Applications of Nano-Materials"	Departments of Physics, School of Basic and Applied Sciences, Harcourt Butler Technical University Kanpur, India	28 th October 2021
8	27th International Conference of International Academy of Physical Sciences on Advances in Relativity and Cosmology	Department of Mathematics, Birla Institute of Technology and	26-28 th October, 2021

		C-: D:1:	
		Science – Pilani,	
		Hyderabad Campus,	
0	National Conference on 6A forms 1 Materials	Hyderabad, India	1 cth O - 4 - 1 2021
9	National Conference on "Advanced Materials,	Department of	16 th October 2021
	Technology, Applications & Education (AMTAE-	Physics, Savithribai	
	2021) "	Phule Pune	
10		University, Pune	5th 0 1 2021
10	National Webinar on "Advanced Materials for	Department of	7 th October 2021
	Various Technological Applications"	Physics, Vel Tech	
		Rangarajan	
		Dr.Sagunthala R&D	
		Institute of Science	
		and Technology,	
		Avadi,	
1.1	N	Chennai	11th A 2017
11	National workshop on Popularisation of Remote	ISRS & ISRO	11 th August, 2017
12	Sensing based Maps & Geospatial Information	Donastmant of	22 22 Doormhan
12	National conference on Recent trends in	Department of Mathematics, Sri	22 – 23 December, 2016
	Mathematics and its applications (RTMIA - 2016)	Venkateswara	2010
		University, Tirupati,	
		A.P., INDIA.	
13	DAE-BRNS Symposium on Condensed Matter	Physics Group,	13 – 16 April, 2016
13	Physics under Extreme Conditions	Bhabha Atomic	13 – 10 April, 2010
	(CoMPEC - 2016)	Research Centre,	
	(COMPLE 2010)	Trombay, Mumbai,	
		INDIA.	
14	Science Academies Lecture workshop on	Department of	21 – 22 March, 2016
	Theoretical and Computational Fluid Dynamics –	Mathematics, Sri	,
	(SALW - 2016)	Venkateswara	
		University, Tirupati,	
		A.P., INDIA.	
15	National Seminar on Advances in Materials	Department of	25 – 26 November,
	Science (NSAMS - 15)	Electronics &	2015
		Instrumentation	
		Technology, Acharya	
		Nagarjuna University,	
		Nagarjuna Nagar,	
		Guntur, A.P., INDIA.	
16	UGC sponsored National Conference on Recent	Department of	01 – 02 March, 2015
	trends in Material Science (RTMS) – 2015	Physics, S.V. Degree	
		College, Kadapa,	
		A.P., INDIA.	
17	International Conference on Frontiers in Nano	Department of	20 - 22 December,
	Science, Technology and Applications	Physics, Sri Sathya	2014
	(FiNSTA'14)	Sai Institute of Higher	
		Learning,	
		Prashanthinilayam,	
10	DAE DDNG N C	A.P., INDIA.	02 06 5
18	DAE-BRNS National Laser Symposium (NLS -	Department of	03 - 06 December,
	23)	Physics,	2014

		Sri Venkateswara	
		University, Tirupati	
19	A two day National Workshop on Nanomaterials:	Department of	02 - 03 September,
	Synthesis, Characterization & Application	GEBH,	2014
		Sree Vidyanikethan	
		Engineering College,	
		A. Rangampet, A.P.	
20	Workshop on Satellite Navigation systems-Their	Department of	30 th March 2012
	application to aviation and atmospheric Science	Physics,	
		Sri Venkateswara	
		University, Tirupati	
21	17 th National Space Science Symposium	Sri Venkateswara	14 – 17 February,
		University, Tirupati	2012

Papers presented in the Conferences/Seminars:

S.	Name of the Conference /	Organized by	Title of the paper	Dates
No.	Seminar			
01	National Symposium on Advanced Functional Materials & their Applications (NSAFMA-2018)	Department of Physics, Rajeev Gandhi Memorial College of Engineering and Technology (Autonomous), Nandyal-518501, Kurnool, A.P., INDIA.	Synthesis, photoluminescence and Judd-Ofelt analysis of a novel type of phosphate based UV excitable CaZn ₂ (PO ₄) ₂ :Eu ³⁺ phosphor for solid state lighting applications	27 – 28 February, 2018
02	National Conference on the Role of Science and Technology in National Development (NCSTND - 2017)	The Indian Science Congress Association Tirupati Chapter and Siddhartha Institute of Engineering & Technology, Puttur, A.P., INDIA	Analysis of J-O intensity parameters and fluorescence properties of Nd ³⁺ ions	21 – 22 March, 2017
03	National Conference on Critical and strategic Materials for Advanced Technologies (CSMAT - 2017)	Rare Earth Association of India, Mumbai, INDIA.	Development of novel green emitting CaZn ₂ (PO ₄) ₂ :Tb ³⁺ phosphor for Solid-state lighting applications	09 – 11 March, 2017
04	104 th Indian Science Congress	Sri Venkateswara University, Tirupati, A.P., INDIA.	Effect of Sm ³⁺ activation on structural and luminescence properties of phosphate based	03 – 07 January, 2017

			CaZn ₂ (PO ₄) ₂ phosphor for Solid-state lighting applications	
05	International Conference on "Sustainable Energy Technologies for Smart & Clean Cities (SETS & CC - 2016)"	Amararaja Industries, Karakambadi, A.P., INDIA.	Luminescence and microstructural features of Sm ³⁺ activated CaZn ₂ (PO ₄) ₂ phosphor for commercial Solidstate lighting applications	27 – 29 July, 2016
06	1 st Andhra Pradesh Science Congress	Sri Venkateswara University, Tirupati, A.P., INDIA.	Development of Eu ³⁺ activated CaZn ₂ (PO ₄) ₂ phosphor for Solid-state lighting applications	27 – 29 January, 2016
07	24 th DAE – BRNS National Laser Symposium (NLS - 24)	Raja Ramanna Centre for Advanced Technology, Indore, INDIA.	Spectroscopic studies of Nd ³⁺ doped oxy fluorosilicate glasses for high power Solid state laser application	2 – 5 December, 2015
08	International Conference on Science, Technology and Applications of Rare Earths (ICSTAR - 2015)	Rare Earth Association of India, Thiruvananthapuram, Kerala, INDIA.	Optical study of NaSrB ₅ O ₉ :Tb ³⁺ phosphors for Solid-state lighting applications	23 – 25 April, 2015
09	International Seminar on "Glasses and other Functional Materials (ISGFM - 2014)"	Department of Physics, Acharya Nagarjuna University, Nagarjuna Nagar, A.P., INDIA.	Optical analysis of NaSrB ₅ O ₉ : Sm ³⁺ phosphors for Solid-state lighting applications	11 – 13 December, 2014

Computer Knowledge:

➤ MS-Office, Mat lab, C, C++, Origin Pro 8.5

Personal Information:

Father's Name : Gotu Naick B
Date of Birth : 10th July, 1989
Nationality : Indian (Hindu)

Marital Status : Married

Languages known : English, Hindi, Telugu

Permanent Address : H. No. 5-3-36, P.M.K Thanda (V), Pallikuppam (P), Ramakuppam (M),

Chittoor – 517 401, A.P., INDIA., Phone: +91-95730 65618

References:

1. Prof. B. Deva Prasad Raju

(Ph.D. Supervisor)
Department of Physics, SVU College of Sciences,
Sri Venkateswara University, Tirupati – 517 502, A.P., INDIA.
E-mail: drdevaprasadraju@gmail.com; Mob: +91-94402 81769

2. Prof. K.T. Ramakrishna Reddy

Department of Physics, SVU College of Sciences, Sri Venkateswara University, Tirupati – 517 502, A.P., INDIA. E-mail: ktrkreddy@rediffmail.com; Mob: +91-9441137898

DECLARATION

I hereby solemnly affirm that all the above details provided are true, complete to the best of my knowledge and belief.

(Dr. RAMESH B)