

Swoddharak Vidyarthi Sanstha's

DADASAHEB RAWAL COLLEGE, DONDAICHA

**Dadasaheb Rawal Knowledge City,
Mandal Road, Dondaicha, Dist. Dhule**



TEACHER PROFILE

Dr. Zambare Pradip Ziparu

**M. Sc. (Applied Physics), Ph. D
Associate Professor**



Department of Physics and Electronics

Academic Years

2009 to 2016

Swoddharak Vidyarthi Sanstha's
Dadasaheb Rawal College, Dondaicha.
Dadasaheb Rawal Knowledge City,
Mandal Road, Dondaicha, Dist. Dhule

TEACHER PROFILE

01. Name of the Teacher : **Dr. Zambare Pradip Ziparu**
02. Designation : Associate Professor
03. Subject : Physics
04. Area of Specialization : Applied Physics
05. Date of Birth : 19/09/1963
06. Date of Appointment : 22/07/1990
07. Date of Confirmation : 22/07/1992
08. Academic Qualification :

Degree	Subject	Month and Year of Passing	University	Class/Grade
B. Sc.	Physics	April-1985	University of Poona	I st
M. Sc.	Applied Physics	Feb.-1988	M. S. University	II nd
Ph. D.	Physics	Nov-2014	North Maharashtra University, Jalgaon	Awarded

09. University approval letter No. and date: CCO/522/569, date 08/03/1991

10. Research **Detail:** Ph. D. Awarded

Research Guide: Dr. O. H. Mahajan, Department of Physics, M. J. College, Jalgaon

Research Topics: "Synthesis, characterization and luminescence properties of strontium cerium oxide phosphor doped with rare earth".

11. **Research Project:**

Sr. No.	Period	Title of the Research Project	Funding Agency	Amount Sanctioned	Completed/Ongoing
1	20 th Dec. 2010 to 20 th Dec. 2012 -	Synthesis and characterization of trivalent (Tb,Er,Tb:Er) doped with Sr ₂ CeO ₄	University Grant Commission	Rs. 140,000=00]	Completed

12. Conferences/Seminar/Workshop organized : National Conference on Advanced Material and Its Applications (NSAMA-2013) Worked as Co-Coordinator

13. Life membership:

- 1) Indian Association of Physics Teachers No. 8754 L-5161
- 2) Luminescence Society of India No. 378
- 3) Nuclear Track Society of India No. 393
- 4) Life member of Khandesh Education Society, Amalner.

14. Publication and presentation in Journals/Conferences/Seminar/Workshop

Sr. No.	Activity	University level	National level	International level	Total
1	Research Publication	0	12	20	32
2	Presentation of Research papers	0	18	4	22
3	Orientation / Refresher Courses attended	0	4	0	4
4	Conferences/ Seminar/ Workshop attended	8	0	0	8
5	Book Publications	2	0	1	3

16. Research Publications in National/International Journals / Proceeding

Sr. No.	Title of the Paper	Title of the Journal in which the paper published	ISSN/ISBN Number
1	Thermoluminescence study of BaMgAl ₁₀ O ₁₇ doped with Pr Phosphor	Proceedings of national conference NCPA -2010 RNSIT Banglore , 2010, 82-84	ISBN 978-81-910787-1-8
2	Effect of Erbium doping on structural and Photo-luminescent properties of Sr ₂ CeO ₄ phosphor	Archives of Physics Research Page 74 - 79 2011, 2(2)	ISSN 0976-970.
3	Thermoluminescence studies of Eu doped Ca ₂ Si ₃ O ₈ F ₂	Advanced Materials and Its Applications Macmilan Advanced Series 2011, P 1157-1160	ISBN CORP-000187
4	Luminescence Properties of Sr ₂ CeO ₄ :Tb ³⁺ Blue Phosphor,	Archives of Physics Research Page 159 – 163 2011, 2(3)	ISSN 0976-970
5	Photoluminescence properties of Trivalent Erbium doped with Sr ₂ CeO ₄ blue Nano phosphor,	Advance in Applied Science Research Page 520 – 524 2011, 2(3)	ISSN 0976-8610.

6	Synthesis and Photoluminescence study of Sr ₂ CeO ₄ : Er, Tb nano phosphor	Archives of Applied Science Research, Page 122-127 2011, 3(3)	ISSN 0976-8610.
7	Fluorescence Properties of BaMgAl ₁₀ O ₁₇ Phosphor doped with Samarium	Proceedings of national conference (NCRAMS-2011) 2011, P 20-23	ISBN 978-93-80638-06-5
8	Synthesis and Luminescent Properties of Sm ³⁺ Doped Sr ₂ CeO ₄ Blue Phosphor	Exel Publication, Amrawati A Proceeding of NCLAM-2012 Page 48 - 50	ISBN: 978-81-922256-64
9	Synthesis of Sm ³⁺ Doped Sr ₂ CeO ₄ Blue Phosphor and Its Characterization	Invertis Journal of Renewable Energy 2012, 2(2) P80 – 85	ISSN: 0973-8940
10	Synthesis and Characterization of Red Emitting Sr ₂ CeO ₄ : Eu ³⁺ Nano Phosphors	Journal of Chemical and Pharmaceutical Research, 2012, 4(4) P- 1990 – 1994	ISSN : 0975-7384
11	Luminescent Properties of Sr ₂ CeO ₄ : Eu ³⁺ , Sm ³⁺ Phosphor and Its Characterizations	International Journal of Luminescence and its applications 2013 3(II) ,	ISSN 2277 – 6362.
12	Red Emitting Sr ₂ CeO ₄ : 2.0 mol % Eu ³⁺ Phosphor for the Application of Solid state lighting	Interties Journal of Science and Technology 2013, 6(3) , 150-154.	ISSN: 0973-8940.
13	Synthesis and Characterizations of Strontium Cerium Oxide Phosphor	Journal of Advances in Chemistry 2013, 3(1) , 149-154.	ISSN:2321-807X
14	Structural and Optical Properties of Samarium doped Sr ₂ CeO ₄ via solid state reaction method	Research and Reviews: Journal of Pure and Applied Physics, 2013 1(3) , P 8-12	ISSN: 2320-2459.
15	Thermal analysis and luminescent properties of Sr ₂ CeO ₄ blue phosphor"	Advanced Materials Letters 2013, 4(7) , P 577-581	<u>DOI:10.5185/amlett.2012.11457.</u>
16	Investigation of luminescent properties of Er ³⁺ activated Sr ₂ CeO ₄ blue phosphor	Journal of Chemical, Biological and Physical Sciences Sec. 3, 2013, 3(2) , 1433-1438.	<u>2249-1929</u>
17	Photoluminescence Study of Er ³⁺ doped Sr ₂ CeO ₄ Blue phosphors	Proceeding of International Conference on Luminescence and Applications (ICLA-2012	ISBN: 81-6717-806-5
18	Fluorescence and TL- Emission Properties of Eu, Ce doped BaMgAl ₁₀ O ₁₇ Phosphor	Proceeding of International Conference on Luminescence and Applications (ICLA-2012 2012, P. 261 Pub. Hyderabad	ISBN: 81-6717-806-5

19	Effect of Cobalt Doping on the Photoluminescence property of $\text{Pb}(\text{IO}_3)_2$ Crystal	Proceeding of International Conference on Luminescence and Applications (ICLA-2012 2012, P. 261 Pub. Hyderabad	ISBN: 81-6717-806-5
20	Photoluminescence Properties of Cuprous Thiocyanate deposited by Chemical route	Proceeding of International Conference on Luminescence and Applications (ICLA-2012 2012, P. 261 Pub. Hyderabad	ISBN: 81-6717-806-5
21	Synthesis and Photoluminescence Study of Sr_2CeO_4 : Eu^{3+} , Er^{3+} Phosphor	Proceedings of national conference in Applied Physics and Materials Science, Ed. K V R Murthy et al, Pub. Hikey media, Chennai 2013, P.46-48	ISBN: 978-93-82570-10-3.
22	Thermally Stimulated Luminescence Dosimetric Characteristics and EPR Studies of BAM:Eu Phosphor	Narosa publishing House Delhi Editor N. L. Singh 2013 P 238-242	ISBN 978-81-8487-259-0
23	$\text{BaMgAl}_{10}\text{O}_{17}$ doped with Samarium(Sm) as a yellow colour Phosphor	International Journal of Luminescence and its applications Vol. I(II) P 154-156	ISSN 2277 – 6362.
24	Synthesis and Photoluminescence Properties of Strontium Cerium Oxide ($\text{Sr}_4\text{Ce}_2\text{O}_7$ phosphor doped 2.0% Eu	Weekly Science international research journal Vol-2 (1) 15-20	ISSN 2321-7871 DOI 10.9780
25	Luminescence and Colorimetric study of RE^{3+} Activated Sr_2CeO_4 phosphor prepared by modified solid state diffusion method	Proceeding of the National Seminar on Display materials Hikey Media Hyderabad 118-121	ISBN- 978-93-82570-42-4
26	Optical characterization of Sr_2CeO_4 : Gd^{3+} phosphor prepared by solid state diffusion method	Research and Reviews: Journal of Pure and Applied Physics, 2014 2(4), P 1-5	e- ISSN: 2320-2459. p-ISSN: 2347-2316
27	Growth and Characterization of Gel Grown Cobalt Iodate Crystals	Bulgarian Journal Physics. 41 (Dec. 2014) 315–320	ISSN : 1310–0157
28	Synthesis, Characterizations And Luminescence Study of Erbium Doped Sr_2CeO_4 Nano Phosphor.	Journal of Shivaji University (Science & Technology) 41 (2), 2014-2015	ISSN-Science-0250-5347
29	Preparation and Spectrometric study of Sr_2CeO_4 : 0.5% Eu^{3+} , 1.0 % Gd^{3+} phosphor	Invertis Journal of Renewable Energy 2015, 5(3)P142-145	Printed: ISSN: 2231-3419 Online : ISSN 2454-7611

30	Synthesis and Luminescent Properties of Sr ₂ CeO ₄ Phosphor prepared by Modified Solid state Diffusion Method	Journal of Advanced Research in Applied Physics and Applications Vol.1, Issue1, 2014	----
31	Study of Luminescence Properties of Strontium Cerium Oxide Phosphor activated Dy ³⁺ for Yellow Emitting Light	<i>International Journal of Luminescence and its applications</i> January 2017 Vol. 6(4) P 249-252	ISSN 2277 – 6362.
32	Synthesis and Optical properties of Eu ³⁺ doped Sr ₂ SiO ₄ Phosphor for Solid State lighting applications	IOSR Journal of Applied Physics July 17, 2017 Vol. 9(4) P 37-41	ISSN 2278-4861
33	Thermal Analysis and Luminescence Properties of the Europium doped Sr ₂ SiO ₄ Phosphor	International Journal of current Engineering and Scientific Research (IJCESR) Jan. 2018, Vol. 5(5) P 18-22	ISSN (Print) 2393-8374, ISSN (Online) 2394-0697

17. Presentation of Research papers in National / International Seminar / Workshop / Conference

Sr. No	Title of Research Paper	Title of conference	Organizing Institute	Duration	Level
1	Influence of Beta Dose on Optical Stimulated Luminescence (OSL) of Synthetic Quartz	National Conference on Luminescence and its Applications (NCLA-2009)	I.A.C.S. Kolkata	Feb. 19-21, 2009	National
2	OSL Characteristics of Annealed Synthetic Quartz under influence of Beta Dose	National Conference on Luminescence and its Applications (NCLA-2010)	Gandhigram, Dindagul. (Tamil nadu)	Feb. 9-11, 2010	National
3	IR Absorption spectra of Ce and Eu doped BaMgAl ₁₀ O ₁₇ Phosphor	National Seminar on Advanced Materials For Display and other Devices (NSAM-2010)	V.S.R & N.V.R. College Tenali (A.P.)	31 May & 1 June 2010	National
4	Thermoluminescence study of BaMgAl ₁₀ O ₁₇ doped with Pr Phosphor	National Conference on Phosphors and Their Applications (NCPA-2010)	RNSIT, Bangalore	Nov. 15-16, 2010	National
5	Fluorescence Properties of BaMgAl ₁₀ O ₁₇ Phosphor doped with Samarium	National Conference on Recent Advances in Material Synthesis and Characterization (NCRAMS-011)	D. D. N. Bhole College Bhusawal Dist. Jalgaon.	22-23 Jan. 2011	National
6	BaMgAl ₁₀ O ₁₇ Doped Samarium (Sm) As yellow Colour Phosphor.	National Conference on Luminescence and its Applications (NCLA-2011)	Pt. Ravishankar University Raipur	Feb. 7-9, 2011	National
7	Thermoluminescence Studies of Eu Doped	International Conference on	Kalaslingam University	4-5 th March	International

	$\text{Ca}_3\text{Si}_3\text{O}_8\text{F}_2$ Phosphor	Advanced Materials and Applications (ICAMA-2011)	Krishnancoil Tamilnadu	2011	
8	Thermally Stimulated Luminescence Dosimetric Characteristics and EPR Studies of BAMU :Eu Phosphor	Symposium Solid State Nuclear Track Detectors and Their Applications (SSNTD-17)	Department of Physics, M. S. University of Baroda	17-19 th Oct. 2011	National
9	Synthesis, Characterization and Luminescence study of Erbium doped Sr_2CeO_4 blue Phosphor	Ist International Conference on Physics of Matrials and Materials Based Devices Fabrication (ICPM-MFD-2012)	Department of Physics, Shivaji University Kolhapur (India)	Jan. 17-19, 2012	International
10	Photoluminescence study of Er^{3+} doped Sr_2CeO_4 blue Phosphor	4 th International Conference on Luminescence and Its Applications (ICLA-2012)	I.I.C.T, Hyderabad, India	Feb. 7-10 th , 2012	International
11	Photoluminescence study of Sr_2CeO_4 : Er^{3+} Phosphor prepared by solid state reaction method	A National Conference on Recent Trends in Engineering Sciences	Department of Applied science J.T. Mahajan College of Engineering, Faizpur Dist Jalgoan	Jan. 4-5-2012	National
12	Synthesis and Luminescent properties of Sm^{3+} doped Sr_2CeO_4 blue Phosphor	National Conference on Lasers and Advanced Materials	Department of Physics, Sant Gadge Baba Amarawati University, Amrawati.	May 29-30 th 2012	National
13	A New Composition of Strontium Cerium Oxide ($\text{Sr}_4\text{Ce}_2\text{O}_7$)	NC-IDRIS - 2012	Department of Physics ASC College Navapur	6-7 th Oct. 2012	National
14	Fluorescence and TL- Emission Studies of Eu, Ce Doped BAM Phosphor	Workshop, on Luminescence Materials Devices and Applications (LMDA)	Department of Physics, M. S. University, Baroda	26- 27 th Nov. 2012	National
15	Red Emitting Sr_2CeO_4 : 2.0 % Eu^{3+} Phosphor for the Application of solid state lighting	National Seminar on Advanced Materials and Its Applications (NSAMA-2013)	Department of Physics, S. V. S;s Arts and Science College,	1-2 Feb. 2013	National

			Dondaicha, Dist Dhule		
16	Synthesis and Characterization of Sr ₄ Ce ₂ O ₇ Phosphor by Solid state Reaction Method	National Seminar on Modern Techniques in Chemical Analysis (NSMTICA-2013)	Department of Chemistry, S. V. S;s Arts and Science College, Dondaicha, Dist Dhule	6-7 th Feb. 2013	National
17	Synthesis and Photoluminescence Study of Sr ₂ CeO ₄ : Eu ³⁺ , Er ³⁺ Phosphor	Two Day National Conference on Applied Physics and Materials Science (APMS-2013)	Vasavi College of Engg. Hyderabad	19-20 July 2013	National
18	Calorimetric Study of RE ³⁺ activated Sr ₂ CeO ₄ blue Phosphor prepared by solid state diffusion Technique	1 st National Conference on Recent Advances in Chemical Sciences and Technology	Department of Basic Sciences, UICT, N.M.U. Jalgaon	21 st Sept. 2013	National
19	Synthesis and Characterization of Rare earth doped Sr ₂ CeO ₄ phosphor via solid state Diffusion method	International Conference on Global Opportunities for Latest Development in Chemistry and Technology -2014 (GOLD-CT-2014)	School of Chemical Sciences, North Maharashtra University, Jalgaon	6-8 th Feb. 2014	International
20	Luminescence properties of Er ³⁺ and Eu ³⁺ Co-activated Sr ₂ CeO ₄ phosphor prepared by modified solid state diffusion method	One day National Seminar on Industrial Important Materials	Department of Physics VSR and NVR College Tenali A. P.	6 th Nov. 2014	National
21	Luminescence and Colorimetric study of RE ³⁺ Activated Sr ₂ CeO ₄ phosphor prepared by modified solid state diffusion method	<i>National Seminar on Display materials</i>	Department of Physics PBN College Nidubrolu A.P.	7-8 th Nov. 2014	National
22	Colorimetric study of gadolinium activated strontium cerium oxide blue phosphor	<i>National conference on recent trends in applied science</i>	Moolji Jaitha College, Jalgaon	30 th – 31 st January 2015	National
23	Thermoluminescence study of Sr ₄ Ce ₂ O ₇ :	<i>International Symposium cum</i>	M. S. University of	18- 20 th Dec.	International

	Er^{+3} doped phosphor	<i>Workshop on Luminescence Materials (ISWLM-2015)</i>	Baroda	2015	
24	Investigation of Co-doping with Strontium Cerium oxide	<i>National conference on recent development in nanomaterials and their applications</i>	G. T. P. Arts, Comm. And Science College Nandurbar	5-6 th Feb. 2016	National

Books Published

Sr. No	Name of Book	Name of Publication	ISBN No.	Year of Publication
1	Digital Electronics	Nirali Publication	---	Oct. 2007
2	Electronics Components and Circuits	Nirali Publication	----	Oct. 2007
3	Synthesis and characterization of trivalent (Er^{3+}, Tb^{3+}) doped with Sr_2CeO_4 phosphor	Lulu.com (US)	978-1-365-73601-8	2017

18. Conferences/Seminar/ Workshop attended

Sr. No.	Title of Conference / Symposium / Workshop	Organizing Institute	Duration	Level
1	Workshop New Trend in Higher Education	S. V. S;s Arts and Science College, Dondaicha, Dist Dhule	1 st March 2009	University
2	Workshop, Innovative Experiments and Technological Advances at Under Graduate course in Physics	M. J. College, Jalgaon	29 th Jan. 2010	University
3	Two day State Level Seminar on Human Right Education: Issue and Challenges	S. V. S;s Arts and Science College, Dondaicha, Dist Dhule	23-24 th Dec. 2010	National

3	Workshop - [Use of Soul Software for Library Automation]	Central Library and Dept. of Library and Information Science, NMU Jalgaon	21 Feb. 2011	University
4	Workshop F. Y. B.Sc. Electronics	Bhusawal Arts Science and P. O. Nahata Commerce College, Bhusawal	22ed April 2012	University
5	Workshop F. Y. B.Sc. Physics	S. S. V. P's L. K. Dr. P.R. Ghogare Science College, Dhule	17 Jan. 2015	University

6	NAAC Awareness Workshop under National Quality Renaissance (NQRI)	North Maharashtra University Jalgaon	23 rd and 24 th March 2015	University
7	Workshop on Syllabus restructuring at F. Y. B. Sc. In the subject Electronics	Dept. of Electronics D. N. College Faizpur.	29 th March 2015	University
8	Workshop on Syllabi revision at S. Y. B. Sc. In the subject Physics	Uttamrao Patil Arts and Science College, Dahivel Dist. Dhule	14 th Jan. 2016	University

19. Work in Different Committee at University/College level

Sr. No.	Nature of committee	Level	Position Held	Duration
1	Local Inspection Committee	University	Member	20/03/2014
2	Local Inspection Committee	University	Member	17/06/2013
3	Senior Supervisor	University	External	09/04/2012 to 19/04/2012
4	Examiner	University	Examiner and Moderator	24/11/2012 to 30/11/2012
4	Senior Supervisor	University	Internal	15/05/2014 to 24/05/2015
5	Senior Supervisor	University	Internal	26/05/2014 to 03/06/2015
6	Examiner	University	Examiner and Moderator	29/11/2013 to 30/11/2013
7	Examiner	University	External practical Examiner	02/06/13
8	External practical Examiner S.Y. B. Sc.(Physics)	University	External	13/03/2012 to 15/03/2012

20. Participation in Social Work / Extracurricular activities

Sr. No.	Nature of work	Level	Position held	Duration
1	Science Exhibition Examiner	Taluka	Member	5/12/2013 to 7/12/2013
2	Science Exhibition Examiner	Rotari English School Dondaicha	Member	12/12/2015

Date: / / 20

Teacher

H.O.D