



Dr. Yogaraj S. Patil

B.Sc. (Electronic), M.Sc. (Physics), Ph.D (Physics-Luminescence)

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Designation: Assistant Professor (Physics) in the Department of Applied Science
and Humanities

Experience: Educational 25 Years, Industry 1 year

Areas of Interest:

Photoluminescence, Nonmaterial's, Condensed Matter physics

Professional membership: ISTE (LM 22169), IJMSEA (LM 1027), LSI (LM360).

Short Term Training Program attended:

- Attended two week STTP on “**Information Technology Orientation for Engineering Teachers**” at DJSCOE, Vile Parle, Mumbai from 19th December 2005 to 30th December 2005.
- Attended one week STTP on “**Emerging Trends In Wireless Computer Networking**” at RGIT, Andheri (w), Mumbai from 20th November 2006 to 24th November 2006.
- Attended one week STTP on “**Recent Trends In Electronics and instrumentation**” at RGIT, Andheri (w), Mumbai from 7th January 2008 to 11th January 2008.
- Participated STTP on “**Applications of Applied Maths and recent trends, Tech and use of ICT Tools in teaching Applied Math**” “from 01/07/2019--05/07/2019 conducted by RGIT Mumbai.
- Completed one week Online STTP on “**Recent Trends in Renewable Energy Sources and Applications**” from 5th July 2021-10th July 2021 conducted by RGIT, Mumbai.

Seminar/ Workshop attended:

- Attended one day seminar on “**Environment, Pollution & Public awareness**” at **MHSSCOE, Byculla, Mumbai** on 12th August 2004.
- Attended one day seminar on “**Albert Einstein – His contribution to the welfare of mankind**” at MHSSCOE, Byculla, Mumbai on 2nd April 2005.
- Attended two days seminar on “**Lasers & Applications**” at S & A.K. COE, Chembur, Mumbai on 30, 31st January 2006.
- Attended one day seminar on “**Current Research Areas in Physics & Its Applications**” at C.N.P.F College, Dabhoi, Gujrat 5th January 2011.
- Attended AICTE sponsored “**Three Day Faculty Development Programme for Student Induction**”.at A.P.Shah Institute of Technology, Thane, from 6 June 2019 to 8 June 2019.
- Attended AICTE sponsored “**Seven Day Faculty Development Programme for Student Induction**”.at A.P.Shah Institute of Technology, Thane, from 18 June 2019 to 24 June 2019.
- Participated in International Webinar on “**Applications of Computational Fluid Dynamics in Biomedical Engg.** “on 14/05/2020 conducted by SNS College of Technology.
- Has participated One week ONLINE FACULTY DEVELOPMENT TRAINING PROGRAM under ISTE on “**Technical Teacher’s Training**” held from 22nd - 27th May, 2020 organised by VVIT, Pal.
- Participated in international webinar on “**Synergistic efforts of academicians and Industrialists in combating Covid-19 using Luminescence**” held on 02/06/2020 by St. Pious X Degree and PG College for women, Hyderabad.
- Participated online FDP on” **Engg. Education and the Industry** “ from 01/06/2020-05/06/2020 conducted by RGIT Mumbai
- Participated online FDP “**e-learning : Managing online classes and creating e-Content**’ from 05/07/2020-07/07/2020 conducted by RGIT Mumbai
- Participated in Two days National Workshop on “**Trends in Cyber security**” on 13th and 14th June 2020 conducted by RGIT Mumbai
- Participated and completed One Week faculty Development programme on “**Future Materials: Nanocomposites**” from 15th June 2020 to 21st June 2020 by Bharti Vidyapeeth College of Engg. Pune.
- Participated in webinar on “ **Nuclear Energy: Myth v/s Reality**”, organised by School of Mechanical Engineering, REVA University, Bengaluru on 29-06-2020.
- Attended One Day Symposium (Online Panel Discussion) on “ **BEYOND THE PANDEMIC: Knowledge, Recession and Much More...**” on 9th August 2020,conducted by RGIT Mumbai.
- Attended online expert lecture on “ **What is so special about Nanoscale**” on 9th October 2020 organised by School of Nanotechnology, UTD-RGPV, Bhopal Under TQIP-III
- Attended A National Webinar - “**New Trends in Engineering Sectors**” on 21 August 2020 organised by SEVERI’s College of Engineering, Pandharpur and Punyashlok Ahilyabai Holkar Solapur University.
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Professional achievements:

Achievements & Awards:

- Awarded best poster paper award for the paper entitled “**Synthesis of LaPO₄: Eu, Tb phosphor**” in ICLA-2012 at Indian Institute of Chemical Technology, Hyderabad.

Technical papers presented / published (National/International Conferences)

- “Thermo luminescence study of Lanthanum Phosphate doped Ce, Tb Lamp Phosphors”, National conference on “Luminescence & its Applications”, Feb 02-04, 2005, Janana Bharti University, Bangalore, Karnataka, TL- P-17, Page No.-323-324.
- “Photoluminescence Characteristics of Lanthanum Phosphate doped Tb”, National conference on “Luminescence & its Applications”, Feb 02-04, 2005, Janana Bharti University, Bangalore, Karnataka, TL- P-22, Page No.-222-223.
- “Thermo luminescence & Photoluminescence study of Lanthanum Phosphate doped Ce, Tb Lamp Phosphors”, National Seminar on “Luminescence & its Applications”, Faculty of Technology, M.S.University, Baroda, Gujarat, Dec. 9-10, 2005, TL-- P-22 Page No. 60 - 61.
- “Low temp. Thermo luminescence characteristics of X-Ray irradiated Eu doped Barium Magnesium Aluminates”, National conference on “Luminescence & Its Applications”, Sant Gadgebaba Amravati University, Amravati, Maharashtra, Feb 07-09, 2006, TL-P-47, Page No. 308-310.
- “Thermo luminescence Properties of CaSiO₃ doped with Sm Phosphor”, National Conference on “ Luminescence & its Applications”, Dept. of Physics,Barthiar University, Coimbatore, Tamilnadu Jan18-20, 2007, Page No.185-187, volume XIV, ISBN 978-0230—63054-3.
- “Thermo luminescence Dosimetric Characteristics and Trapping parameters of BaMgAl₁₀O₁₇:Ce, Pr Phosphor”, National Conference on “ Luminescence & Its Applications”, Central Glass & Ceramic Research Institute , Kolkata, West Bengal, Feb, 19-21, 2009.
- “Synthesis & Thermo luminescence studies of Eu doped Ca₃Si₃O₈F₂ Phosphor”, UGC sponsored state level seminar on “Current Research Areas in Physics & Its Applications”, Dept. of Physics, Shri. C.N.P.F College Dabhoi, Dist. Baroda, Gujarat, Jan 05, 2011.

- “Luminescence properties of $\text{Ca}_3\text{Si}_3\text{O}_8\text{F}_2$, $\text{Ca}_5\text{Si}_3\text{O}_8\text{F}_2$, $\text{Ca}_7\text{Si}_3\text{O}_{12}\text{F}_2$ Phosphor”, UGC sponsored state level seminar on “Current Research Areas in Physics & Its Applications”, Dept. of Physics, Shri. C.N.P.F College Dabhoi, Dist. Baroda, Gujarat, Jan 05, 2011.
- “Photoluminescence study of LaPO_4 : Ce, Eu, Tb Phosphor”, International conference on ‘Advanced Materials & Its Applications’. Multifunctional Materials Research Centre & Dept. of Physics, Chemistry, Kalashlingam University, T.N, March 04-05, 2011, Page no.1113-1116, ISBN-CORP 000187.
- “Luminescence Study of LaPO_4 : Eu, Tb Phosphor”, International conference on ‘Advanced Materials & Its Applications’. Multifunctional Materials Research Centre & Dept. of Physics, Chemistry, Kalashlingam University, T.N, March 04-05, 2011, Page no.1101-1104, ISBN-CORP 000187.
- “Luminescence properties of $\text{Ca}_3\text{Si}_3\text{O}_8\text{F}_2$, $\text{Ca}_5\text{Si}_3\text{O}_8\text{F}_2$, $\text{Ca}_7\text{Si}_3\text{O}_{12}\text{F}_2$ Phosphor”. National Conference on “Luminescence & Its Applications” , Dept. of Physics, Pt. Ravi Shankar Shukla University, Raipur, Chhattisgarh, Feb 07-09 ,2011, TL-11, Page No.207-210.
- “Thermo luminescence studies of Eu doped $\text{Ca}_3\text{Si}_3\text{O}_8\text{F}_2$ Phosphor”, National Conference on “Luminescence & Its Applications” , Dept. of Physics, Pt. Ravi Shankar Shukla University, Raipur, Chhattisgarh, Feb 07-09 ,2011, TL-16, Page No.217-220.
- “Synthesis of Lanthanum Phosphate Doped with Europium & Terbium”, International Conference on “Luminescence & Its Applications”, Indian Institute of Chemical Technology, Hyderabad, Feb 07-10, 2012, Pl-46, Page no. 265, ISBN-81-6712-806-5.
- “Photoluminescence Study of LaPO_4 : Ce, Eu, Tb Phosphor, International Conference on “Luminescence & Its Applications”, Indian Institute of Chemical Technology, Hyderabad, Feb 07-10, 2012, Pl-47, Page no.266, ISBN-81-6712-806-5.
- “Synthesis and Photo Luminescence characterization of Nanomonazite type LaPO_4 : Tb, Eu and LaYPO_4 : Eu, Tb, Phosphor for Display Applications”, Dec, 2017, Journal of Research and Development, Vol8, (Special Issue 4), UGC journal List No. 64768. ISSN no. 2230-9578, Page No.-211-217

Technical papers published (National /International Journals)

- "Synthesis & PL study of LaPO₄: Eu, Tb Phosphor", Achieves of Physics Research, (Scholars Research Library), ISSN: 0976-0970, CODEN (USA):APRRC7, volume 2011; 2(3), Page no. 110-115.
- "Effect of RE (Ce, Tb) Dopant on PL & Crystallites size of LaPO₄", Advances in Applied Science Research (Palegia Research Library), ISSN: 0976-8610 CODEN (USA): AASRFC, Vol. 2011, 2(5), Page no. 130-135.
- "Effect of Er Doping on Structural & PL properties of LaPO₄: Eu Phosphor", Advances in Applied Science Research (Palegia Research Library), ISSN: 0976-8610 CODEN (USA): AASRFC, Vol. 2011, 2(5), Page no. 303-309.
- "Synthesis and Photoluminescence Study of LaPO₄: Ce, Eu, Tb Phosphor", Archives of Physics Research (Scholars Research Library), ISSN: 0976-0970CODEN, (USA):APRRC7, Vol. 2011;2(4), Page no. 18-23.
- "Synthesis and effect of Eu dopant on PL and Crystallite size of Lanthanum Phosphor", Achieves of Applied Science Research (Scholars Research Library, ISSN: 0975-508X CODEN (USA):AASRC9, Vol. 2012; 4(2), Page no. 757-763.
- "Synthesis, PL & TL Study of LaPO₄: Eu Phosphor", International e-Journal of Mathematics & Engineering, ISSN:0976-1411, Vol. 183(2012), Page no. 1756-1761.
- "Synthesis, Photoluminescence and Thermo luminescence study of LaYPO₄:Eu, Tb phosphor", International Journal of Science Innovations and Discoveries, ISSN:2249-5347, Vol. 2012, 2 (4), Page no. 418-422.
- "Luminescence properties of Ca₃Si₃O₈F₂, Ca₅Si₂O₈F₂, Ca₇Si₃O₁₂F₂ phosphor", International Journal of Luminescence and its applications, ISSN 2277 – 6362, Vol. 2(I), 09/08/2012, Page no. 57-59.
- "Thermo luminescence Studies OF Eu doped Ca₃Si₃O₈F₂ phosphor", International Journal of Luminescence and its applications, ISSN 2277 – 6362, Vol. 2(I), 09/08/2012, Page no. 76-78,
- "Photoluminescence study of LaPO₄ and Ce, Eu & Tb Phosphor", International Journal of Luminescence and its applications, ISSN 2277 – 6362, Vol.1 (II), Page no. 142-144.
- "Synthesis & PL study of LaPO₄: Eu, Tb Phosphor", International Journal of Luminescence and its applications. ISSN 2277 – 6362. Vol.1 (II). Page no. 138-140.

- “Synthesis and Thermo luminescence Studies of Eu Doped $\text{Ca}_3\text{Si}_3\text{O}_8\text{F}_2$ Phosphor”, International Journal of Luminescence and its applications, ISSN 2277 – 6362, Vol.1 (II), Page no. 121-123.

Minor Research Project :(Principal Investigator)

1) Title of project: “**Synthesis & Characterizations of red Phosphors (LaYPO₄: Ce, Eu, Tb) for CFL lamps and display applications.**”

Sanctioning Authority: University of Mumbai. Year: 2015-2016

Sanctioned Amount: **52000/-**

Status: Completed.

2) Title of project: entitled “**Synthesis and Characterization of nano monazite Type LaPO₄: Tb, Eu and LaYPO₄: Tb, Eu Phosphor through solid state reaction Method**”

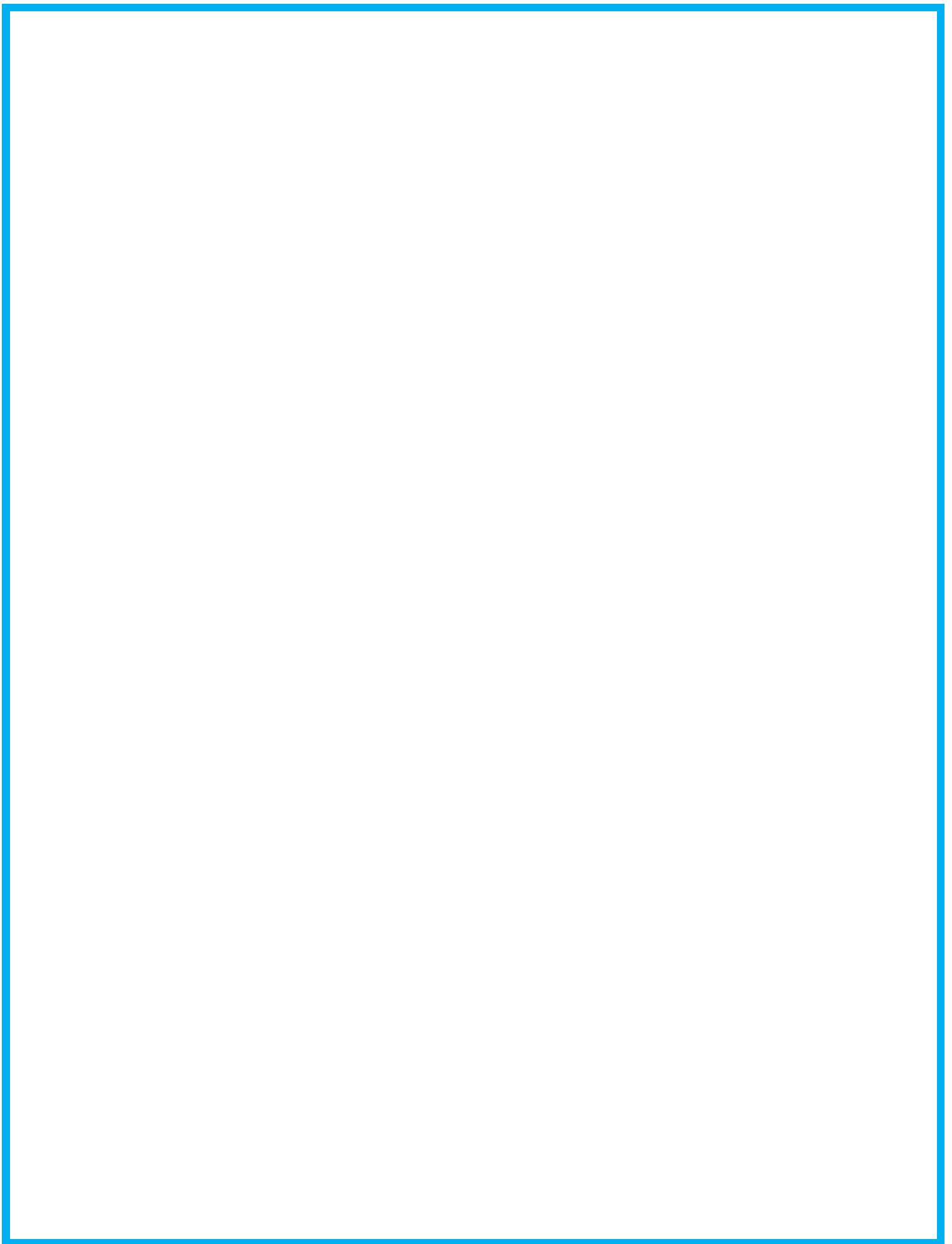
Sanctioning Authority: University of Mumbai. Year: 2019-2020

Project has sanctioned by MU **vide letter no. APD/ICD/2019-20/762** dated 17th March, 2020

Project no.:-572, Amount Sanctioned: 50000/--

NPTEL online course Certified:

- “Solid State Physics” with a consolidated score of 46% , conducted 12 week Course by IIT, Kharagpur, July-Oct, 2017.
- “ Stress Management “with a consolidated score of 73% , conducted 4 week Course by IIT, Kharagpur, July-Aug, 2019.
- “ Solar Photovoltaic Fundamentals, Technology and Applications“ with a consolidated score of 48% , conducted 8 week course by IIT, Roorkee, July-Sept, 2019.



Minor research project :(Principal Investigator)

1) Title of project: “Synthesis & Characterizations of red Phosphors (LaYPO₄:Ce, Eu, Tb) for CFL lamps and display applications.” Sanctioning Authority: University of Mumbai. Year: 2015-2016
Sanctioned Amount: 52000/- Status: Completed

2) Title of project: Synthesis and Photoluminescence characteristics of nano-monazite type LaYPO₄: Tb,Eu and LaPO₄:Tb,Eu Phosphor prepared through solid state reaction method.
Sanctioning Authority: University of Mumbai. Year: 2015-2016 Sanctioned Amount: 52000/-
Status: Ongoing

NPTEL online course Certified:

1)“Solid State Physics” with a consolidated score of 46% , conducted 12 week course by IIT, Kharagpur, July-Oct, 2017

2)“Stress Management” with a consolidated score of 48% , conducted 4 week course by IIT, Kharagpur, July-Aug, 201

3)“Solar Photovoltaic's Fundamentals, Technology and Applications” with a consolidated score of 73% , conducted 8 week course by IIT, Roorkee, July-Sept, 2019

Achievements & Awards:

Awarded best poster paper award for the paper entitled “**Synthesis of LaPO₄: Eu, Tb phosphor**” in ICLA-2012 at Indian Institute of Chemical Technology, Hyderabad.
