Curriculum Vitae

1. Name: **Dr.M.Srinivas**

2. Phone: +91- 99083 66857

   Email ID: msrinivas.ou@gmail.com
   msrinivas.ou@osmania.ac.in

3. Institution: **Professor of Physics**
   Head, Department of Physics
   University College of Science
   Osmania University, Hyderabad-500 007
   Telangana, India

4. Ph.D.

- **Ph.D. in Physics** from Osmania University, Hyderabad, India
  Thesis title: **Luminescence Study of Display Phosphors.**
- **Areas of research:** Luminescence, Multiferroics, Photonics, Nanomaterials and Sol-Gel Technology

5. Details of Research Projects being Ongoing / Completed

S. No	Title	Cost in Lakhs	Start Date	End Date	Role	Agency
1	Development of Rare-earth Free Nanophosphors and Fabrication of Phosphor Converted Cool-White LED Device	**47,99657/-**	**24-03-2022**	**23-03-2025**	**PI**	DST-SERB
2	Tailoring of materials for Luminescence emission in UV region with improved quantum efficiencies for RGB	**25,88,320/-**	1-9-2014	31-08-2018	PI	DST-SERB
3	Synthesis and Luminescence Studiesof Lanthanide ions doped Inorganic Nano-Phosphors	**13,25,800/-**	1-4-2014	31-03-2017	PI	UGC

6. Work experience (in chronological order).

- Coordinator, M.Sc., Post Diploma Radiological Physics course, OU (1.5.2023- to date)
- Chairperson, BoS, ASLP, Department of Physics, OU (1.5.2023- to date)
- Corse Coordinator for **RC in Materials Science for UG teachers**, conducted by UGC-HRDC, OU (1.09.2023 - 16.09.2023).
- Member, Deans Committee, Faculty of Science, OU (12.07.2023- to date)
- Member, Grievances Re-addressable Committee for comprehensive continuous evaluations (CCE) UCS, OU **from** 13.11.2023 till today
- Member, Internal complaints committee to prevent sexual harassment of Women at workplace for OU jurisdiction (15.11.2023 – to date)
- Attended “Leadership Development for Academic Administrators” conducted by UGC-HRDC, OU (26.07.2023 - 04.08.2023).
- Member of the Departmental Research Committee (DRC), Department of Physics, O.U.

- Chairperson, BoS in Physics, Department of Physics, Osmania University, (2021-2023).
- **Corse Coordinator** for Three week Industrial Training Programme (ITP) for the Physics Faculty of Govt. Polytechnic Colleges in Telangana state, conducted by UGC-HRDC, OU (1.06.2022 to 21.06.2022).
- BOS Member in Physics for Mahatma Gandhi University (MGU), Nalgonda.
- BOS Member in Physics for Palamuru University (PU), MBNR.
- BOS Member in Physics for Sathavahana University (SU), KNR
- Member of the Departmental Committee (DC) to decide all policy and other matters relating to the teaching arrangements, admissions, examinations, administration, finance and research, (2005 – to date).
- BOS Member in Physics for UG & PG courses, Department of Physics, Osmania University
- BOS Member in Electronics for UG & PG courses, Department of Physics, Osmania University
- Co-Ordinator for Telangana State Eligibility Test (**TS-SET**) (2018-2021)
- Governing body member for various UG and PG Colleges under OU affiliation.
- Selection Committee Member for various UG and PG Colleges under OU affiliation
- Subject Expert Member for Lecturers selection process for various UG and PG Colleges under OU affiliation
- Member in Joint Inspection Committee, CDC, OU (2012 to date).

7. Memberships in Professional bodies

- Life Member of Luminescence Society ofIndia
- Life Member of Indian Science CongressAssociation
- Life Member of Indian PhysicsAssociation
- Life Member of Indian Physics TeachersAssociation
- Life Member of Materials Research Society ofIndia
- Life Member of Indian Institute of Public Administration (IIPA), New Delhi

8. Ph.D. Scholars working under my Supervision

Ph.D. Awarded

1. **Dr. K.Srikanth**
   Title: *Luminescence studies of Ln3+ doped Ternary Oxide Phosphors (Ln = Ce, Eu and Tb).* ***Awarded:*** *2022*
2. **Dr. K.Laxminarayana**
   Title: *Rare Earth (Sm^{3+}, Gd^{3+}) doped LaB_3O_6, YBO_3 and ZnB_2O_4 Phosphor Luminescence and ESR (Gd^{3+}) Investigations.* ***Awarded:*** *2022*
3. **Dr. L.Narsimha**
   Title: *Luminescence properties of Rare Earth activated Ortho Silicate Phosphors.* ***Awarded:*** *2023*
4. **Dr. M.Narasimulu**
   Title: *Photo and Thermoluminescence Studies of Rare Earth Doped Alkaline Earth Ortho Germinate Phosphors.* ***Awarded:*** *2023*

Students are Pursuing Ph.D

1. Mr. A. Trinadh
2. Mr.R. Prem Kumar
3. Mr. J. Venkatram Reddy
4. Mr.S.Venkateswarlu
5. Mr.ShakarRao
6. Mr.P.Shekar
7. Mr.P.SrinivasaRao

8. Mr. S.Srinivas

9. Publications

1. Preparation, Characterization, Photoluminescence and Thermoluminescence Studies of $Li_{2-3x}Ln_xGeTeO_6$ (Ln = Eu^{3+}, Tb^{3+}; x = 0.0, 0.02, 0.05, .075 and 0.1)
   Trinadh Amarapuri, Srikanth Koneti, Vithal Muga and Srinivas Mudavat
   Journal of Electronic Materials, https://doi.org/10.1007/s11664-024-11334-z

2. Synthesis and photoluminescence studies of $Na_{3-3x}Ln_xSbO(PO_4)_2$ (Ln = Eu, Sm and Tb, and $0 \leq x \leq 0.1$ mol%) phosphors for white light emitting diodes

   Amarapuri Trinadh, Koneti Srikanth, Kunja Laxminarayana, Pallati Srilekha, Muga Vithal and **Mudavat Srinivas**
   J Mater Sci: Mater Electron (2023) 34:83, https://doi.org/10.1007/s10854-022-09463-4

3. A Novel Approach for Generation of Oxygen Vacancies in Trirutile MnSb2O6 and Their Impact on Photocatalytic Degradation of MO Dye
   Manasa Sunku, PeralaVenkataswamy, Gaddameedi Hima Bindu, Pallati Srilekha, **M.Srinivas** and M. Vithal
   Eur. J. Inorg. Chem. 2022, e202200550, https://doi.org/10.1002/ejic.202200550

4. Emission (Gd^{3+} and Sm^{3+}) and ESR (Gd^{3+}) studies of $La_{1-x}Ln_xB_3O_6$ (Ln = Gd, Sm; $0 \leq x \leq 0.2$ for Gd; $0 \leq x \leq 0.1$ for Sm) phosphors
   Kunja Laxminarayana, Koneti Srikanth, Amarapuri Trinadh, Pallati Srilekha, Muga Vithal and Mudavat Srinivas
   J Mater Sci: Mater Electron, https://doi.org/10.1007/s10854-022-08786-6 Springer publication

5. Perovskite Nanowires for Next-Generation Optoelectronic Devices: Lab to Fab

   Gundam Sandeep Kumar, Ranadeep Raj Sumukam, Rakesh Kumar Rajaboina, Ramu Naidu Savu, Mudavat Srinivas and Murali Banavoth

   ACS Applied Energy Materials **2022** 5 (2), 1342-1377, doi: 10.1021/acsaem.1c03284

6. Optical characteristics of europium and terbium doped strontium orthogermanate phosphors

   Koneti Srikanth, Lavudi Narsihma, Kunja Laxminarayana, Muga Vithal and Mudavat Srinivas
   Journal of the Indian Chemical Society 98 (2021) 100237

7. Luminescence studies of europium and terbium doped calcium orthosilicate phosphors
   Kunja Laxminarayana, Koneti Srikanth, Mangali Narsimulu, Lavudi Narsihma, Manchoju Satish Kumar and Mudavat Srinivas
   Materials Today: Proceedings https://doi.org/10.1016/j.matpr.2021.12.499

8. Structural and microwave properties of Ag-doped strontium hexaferrite

   Nyathani Maramu, D. Ravinder, T. Anil Babu, M. Srinivas, B. Ravinder Reddy, G. Sriramulu, KatlakuntlaSadhana and N. V. Krishna Prasad
   J Mater Sci: Mater Electron, https://doi.org/10.1007/s10854-021-06797-3 Springer publication

9. Synthesis and luminescence properties of Pr^{3+} ion-doped $Ba_3Y(PO_4)_3$ phosphors

   Megala Rajesh, **Mudavat Srinivas**, Nannepaga John Sushma, Tata Sanjay Kanna Sharma, Koduru Mallikarjuna and Borelli Deva Prasad Raju
   J. of Biological and Chemical Luminescence, August 2021, 1-4; DOI: 10.1002/bio.4135

10. Luminescence properties of Eu^{3+} and Tb^{3+} doped Ba_2GeO_4 phosphor with UVlight
    Koneti Srikanth, Lavudi Narsihma, Mangali Narsimulu, Manchoju Satish Kumar, Kunja Laxminarayana and **Mudavat Srinivas**
    Materials Today: Proceedings 30 (2020) 145–149; https://doi.org/10.1016/j.matpr.2020.05.221

11. Photoluminescence studies of Eu^{3+} and Tb^{3+} activated Ba_2SiO_4 phosphor with UVlight
    K. Srikanth, L. Narsihma, M. Narsimulu, M. Satish Kumar, K. Laxminarayana, **M. Srinivas**
    AIP Proceedings, Vol. 2269, 030058 (2020); https://doi/10.1063/5.0019649

12. Effect of rare earth elements on low temperature magnetic properties of Ni and Co-ferrite nanoparticles
    Nehru Boda, GopalBoda, K. Chandra Babu Naidu, **M. Srinivas**, Khalid MujasamBatood, D. Ravinder, A. Panasa Reddy
    Journal of Magnetism and Magnetic Materials 473, 1 March (2019) 228–235; https://doi.org/10.1016/j.jmmm.2018.10.023

13. VUV-UV Photoluminescence properties of Ce^{3+} doped Ca_2SnO_4 phosphor forPDP application
    M. Srinivas, SumedhaTamboli, S.J. Dhoble
    International Journal for Light and Electron Optics ,**J.ofOptiK 145(2017) 202-208;** http://dx.doi.org/10.1016/j.ijleo.2017.07.050

14. Photoluminescence properties of $Ca_2Al_2O_5:RE^{3+}$ (RE = Eu, Dy and Tb) phosphors for solid statelighting
    Atul N. Yerpude, Vishal R. Panse, SJ. Dhoble, Namdeo S. Kokode| and **M.Srinivas**
    J. of Biological and Chemical Luminescence, April 2017, 1-4; DOI: 10.1002/bio.3340

15. High performance dye anchored counter electrodes with a SPSQ2 sensitizer for dye sensitizedsolar cell applications
    K. Susmitha, M. Gurulakshmi, M. Naresh Kumar, L. Giribabu,G. HanumanthaRao, Surya Prakash Singh, S. NarendraBabu, **M. Srinivas**and M. Raghavender
    Mater. Chem. Front., 2017, **1**, 735-740; DOI: 10.1039/c6qm00101g

16. Photoluminescence Studies of Eu^{3+} Doped Y_2O_3Phosphor
    M.Srinivas
    Indian Journal of Science and Technology,
    *Vol 10(18), **DOI: 10.17485/ijst/2017/v10i18/110040**, May 2017,*
    ISSNPrint0974 6846, Online 0974 5645,***UGC Approved Journal***

17. Thermoluminescence studies of Eu^{3+} doped Calcium Lanthanum borate phosphor
    M.Srinivas
    International Journal of Applied Chemistry, Volume 13, Number 2 (**2017**), pp. 267-272
    ISSN 0973-1792,***UGC Approved Journal***

18. Luminescence of Ce^{3+} ion in $NaSr_4(Bo_3)_3$ blue emitting phosphor
    Sumedhatamboli, **M. Srinivas**And S. J.Dhoble

Bionano Frontier Vol. 10 (3) 2017 pp 261-262, Print ISSN 0974-0678, Online ISSN: 2320-9593, ***UGC Approved Journal***

19. VUV-UV Photoluminescence properties of Eu^{3+} doped Ca_2SnO_4Phosphor
Sumedhatamboli, **M. Srinivas**And S. J.Dhoble
Bionano Frontier Vol. 10 (3) 2017 pp-263-266, Print ISSN 0974-0678, Online ISSN: 2320-9593, ***UGC Approved Journal***

20. Synthesis and Photoluminescence of Tb^{3+}-activated Ca_3La_2 $(BO_3)_4$Phosphor
M.Srinivas
Materials Today: Proceedings 3 (2016) 3719–3725,

21. Upconversion luminescence in Er^{3+}/Yb^{3+}codoped PbO-Bi_2O_3-AI_2O_3-B_2O_3glasses
B AppaRao*, Y Raja Rao, K Krishnamurthy Goud and **M Srinivas**
Proceedings of International Conference on Materials Science and Technology (ICMST-12**)** **published by IOP Conference Series: Materials Science and Engg 73 (2015) 012008.**

22. Spectroscopic studies of xLi_2O-(40-x)Bi_2O_3-20CdO-40B_2O_3Glasses
R. Vijaya Kumar, A. Edukondalu, P. Muralimohan, **M. Srinivas**, K. Siva Kumar Proceedings of International Conference on Materials Science and Technology (ICMST-12**)** **published by IOP Conference Series: Materials Science and Engg 73 (2015) 012008.**

23. Synthesis and Photoluminescence of Eu^{3+} activated $Ca_3La_2(BO_3)_4$phosphor
M.Srinivas
International Journal of Engg.and Technical Research (IJETR), Dec-2014, pp-165-167, ISSN: 2321-0869

24. Synthesis and Photo luminescence of Tb doped Gd_2O_2Sphosphor
M.Srinivas
Proceedings of the National Seminar Physics and quality of life **(NSPQL-2014)**, Published by**International Journal of Innovative Research in Science, Engg.and Technology**, Volume 3 , Special Issue 2,February 2014, **ISSN : 2347- 6710**

25. Luminescence properties of Tb^{3+} doped Sr_2SnO_4 green phosphor in UV/VUVregions
M.Srinivas, B.AppaRao, M.Vithal and P.RagahavaRao
J. of Biological and Chemical Luminescence, Vol-28, issue-4, July 2013, pp 597-601; DOI: 10.1002/bio.3340

26. Spectroscopic Properties of Er^{3+} and Upconversion luminescence in Er^{3+}/Yb^{3+} co-doped lead bismath alumina borateglasses
Y.RajaRao, K.KrishnamurthyGoud, **M.Srinivas**and B.AppaRao, **Proceedings** of the National Seminar on Multifunctional Materials (NSMFM-2013), published by**International Journal of Luminescence and Applications**, Vol-32, March-2013,ISSN: 2277-6362.

27. Thermoluminescence study of gamma irradiated Tb^{3+} doped Ca_2SnO_4phosphor
M.Srinivasand B.AppaRao
Proceedings of the National Conference on Advances in Materials Science and Technology, held on **19-21st November 2012**, Department of Physics, KU, Warangalpublished in the form of book by **LAMBERT** publishing **Germany** Company. ISBN: **978-3-659-38098-3.**

28. Synthesis and Luminescent studies of Eu^{3+} doped Y_2O_3 phosphor under UV region

M.SrinivasandB.AppaRao,
Proceedingsof the National Conference on Advances in Materials Science and Technology, held on **19-21st November 2012**, Department of Physics, KU, Warangal, Published in the form of book by **LAP LAMBERT publishing Germany,** Company, ISBN: **978-3-659-38098-3.**

29. Luminescence studies of Eu^{3+} doped $BaGd_2O_4$phosphor
M.Srinivasand B.AppaRao
Indian Journal of Science and Technology, Vol.5, No.7, July 2012
ISSN:**0974 6846**, ***UGC Approved Journal***

30. Synthesis and Luminescence properties of a new green phosphor Ca_2SnO_4:Tb^{3+}
M.Srinivas and B.AppaRao
***J.Pure and Appli.Phys., Vol.23, No.4, Oct-Dec, 2011, pp. 543-549*, ISSN: 0974-8970**

31. Synthesis and Luminescence studies of Ce^{3+} and Eu^{3+} doped Ca_2SnO_4 phosphor under UV region
M.Srinivasand B.AppaRao
***J.Pure and Appli.Phys., Vol.23, No.3, July-Sept, 2011, pp. 528-534*, ISSN: 0974-8970**

32. The photoluminescence properties of Sr_2SnO_4:Eu^{3+} under VUV region
M.Srinivasand B.AppaRao
***J.Pure and Appli.Phys., Vol.23, No.3, July-Sept, 2011, pp. 523-528*, ISSN: 0974-8970**

33. Luminescence Studies of $BaGd_2O_4$:Tb^{3+}
AppaRaoBojja, **SrinivasMudavat**, SomaiahKarnati, VithalMuga, Bing Ming Cheng
Tenth International Conference on Solid State Lighting at Sandigo, USA, edited by Ian Ferguson, Matthew H. Kane, NadarajahNarendran, Tsunemasa Taguchi, Proc.of SPIE Vol.7784, 77841E. © 2**010** SPIE, CCC code: .doi: 10.1117/12.868349
Proc.of SPIE Vol.7784, 77841E, Sandigo, USA