


CURRICULUM VITAE

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EDUCATIONAL QUALIFICATION

2007–2011: Ph.D. (Submitted), Department of Electronics & Communication, University of Allahabad, Allahabad, UP, India

Thesis Supervisor: **Dr. Rajneesh K. Srivastava**

Thesis Title: *Investigation of Luminescence and Related effects in II-VI Compounds*

2000–2002: M.Sc. in Electronics, Lucknow University, Lucknow, UP, India

Project Supervisor: **Prof. Purnima Bharti**

Project Title: **Intelligent Electronic Lock**

1997–2000: B.Sc. (Physics, Computer Sc.), Lucknow University, Lucknow, UP, India

Teaching Experience (graduation level): 06 years of exposure in Teaching

8/2011–Present: Assistant Professor, Department of Electronics/Physics, Devprayag Institute of Technical Studies (College code-470), Allahabad UP India

8/2010–8/2011: In-charge, Department of Electronics, Ewing Christian College (**ECC**), Allahabad UP India

7/2007–3/2009: Lecturer in Department of Physics/Electronics, Iswer Saran Degree College (**ISDC**), Allahabad University, Allahabad, UP, India

7/2004–5/2007: Lecturer, Department of Physics/Electronics Jhunjhunwala P. G. College, Faizabad, Affiliated to Dr. R. M. L. Awadh University, Faizabad India

Courses completed during M. Sc.:

✚ Integrated Analog Electronics, Optical Communication, Digital & Analog Communication, Digital Electronics, Microprocessor, Network Analysis, Control System, Satellite and Radar Communication, Microwave, Instrumentation, Computer Networks, Embedded System, VLSI, Nanoscience and Nanotechnology.

Programming Languages Known:

✚ C, C++, MatLab, FORTRAN77, CAD and Assembly Language

Research Interests

✚ Synthesis and Property study of Semiconductor Nanophosphors:

Semiconductor nanophosphors: synthesis, doping, surface modification, structural, electronic, optical and photoconducting properties

II-VI and IV-VI Compounds: Synthesis, Properties

Oxides: Metallic oxide nanophosphors and Transparent Conducting Oxides

✚ Applications of Nanomaterials:

Applications of Nanophosphors in optoelectronics devices including photodetector, photovoltaic, infrared optical devices and light emitting diode (LEDs)

✚ Handled instruments:

Photoconductivity measurement, Electroluminescence & Photoluminescence measurement system and UV-Vis spectrophotometer

✚ Analysis and interpretation:

Electron microscopy (TEM, SEM, HRTEM), XRD, FT-IR, UV-Vis-NIR spectroscopy and Photoconducting response of Nanophosphors

Extra Curricular Activity

✚ Transport Committee member in National Conference “**MMSETLSA- 2009**”, Department of Physics, University of Allahabad, Allahabad, India, 23-25 March, 2009

✚ Member of International Nanoscience Community

✚ Member of Local Advisory Committee in National Seminar on Advanced in Laser, Spectroscopy and Nanomaterials “**NSALSN-2010**” held during March 5-7, 2011

✚ Member of IETE (Institute of Electronics and Telecommunication Engineers)

Research papers publication in various reputed International Journals

1. **Sheo K. Mishra**, Rajneesh K. Srivastava, S. G. Prakash, Raghvendra S. Yadav and A. C. Pandey, “**Photoluminescence and Photoconductive Characteristics of Hydrothermally Synthesized ZnO Nanoparticles**”, Opto-Electronics Review **18(4)**, 467-473 (2010) (**Impact Factor: 1.027**)
2. **Sheo K. Mishra**, Rajneesh K. Srivastava, S. G. Prakash, Raghvendra S. Yadav and A. C. Pandey, “**Structural, Photoconductivity and Photoluminescence Characterization of Cadmium Sulfide Quantum Dots Prepared by Co-precipitation Method**”, Electronic Materials Letters **7**, 31-38 (2011) (**Impact Factor: 1.594**)
3. **Sheo K. Mishra**, Smriti Srivastava, Rajneesh K. Srivastava, A. C. Panday and S. G. Prakash, “**Photoluminescence and Ultraviolet Photoresponse Properties in ZnO Nanophosphors Prepared by Thermal Decomposition of Zinc Acetate**”, Adv. Mat. Lett. **2(4)**, 298-302 (2011)

4. **Sheo K. Mishra**, Rajneesh K. Srivastava, S. G. Prakash, Raghvendra S. Yadav, A .C. Pandey, "Photoconductivity and Photoluminescence Characteristics of Mn-doped CdS Nanoparticles Synthesized by Co-precipitation Method", Journal of Alloys and Compounds, (2011) DOI: [10.1016/j.jallcom.2011.10.003](https://doi.org/10.1016/j.jallcom.2011.10.003) (**Impact Factor: 2.134**)
 5. S. C. Singh, **S. K. Mishra**, R. K. Srivastava, and R. Gopal, "**Optical Properties of Selenium Quantum Dots Produced by Laser Irradiation of Water Suspended Se Nanoparticles**", J. Phys. Chem. C **114**, 17374–17384 (2010) (**Impact Factor: 4.520**)
 6. S. Srivastava, **S. K. Mishra**, R. S. Yadav, R. K. Srivastava, A. C. Pandey and S. G. Prakash, "**Photoconductivity and Dark-conductivity Studies of Mn-doped ZnS Nanoparticles**", Digest J. Nanomater. Biostruct. **5**, 161–167 (2010) (**Impact Factor: 2.078**)
 7. R. L. Mishra, **Sheo K. Mishra**, S. G. Prakash "**Optical and Gas Sensing Characteristics of Tin Oxide Nano-crystalline Thin Film**", Journal of Ovonic Research **5**, 77–85 (2009)
 8. Ram Kripal, Atul K. Gupta, **Sheo K. Mishra**, Rajneesh K. Srivastava, Avinash C. Pandey, S. G. Prakash, "**Photoluminescence and Photoconductivity of ZnS:Mn²⁺ Nanoparticles Synthesized via Co-precipitation Method**", Spectrochimica Acta Part: A **76**, 523–530 (2010). (**Impact Factor: 1.770**)
 9. Archana Maurya, Pratima Chauhan, **Sheo K. Mishra**, Rajneesh K. Srivastava, "**Structural, Optical and Charge Transport Study of Rutile TiO₂ Nanocrystals at Two Calcination Temperatures**", Journal of Alloys and Compounds **509**, 8433–8440 (2011). (**Impact Factor: 2.134**)
 10. Ram Kripal, Atul K. Gupta, Rajneesh K. Srivastava, **Sheo K. Mishra**, "**Photoconductivity and Photoluminescence of ZnO Nanoparticles Synthesized via Co-precipitation Method**", Spectrochimica Acta Part A **79**, 1605–1612 (2011). (**Impact Factor: 1.770**)
- [Research papers Communicated in various reputed International Journals](#)**
11. **Sheo K. Mishra**, Rajneesh K. Srivastava, S. G. Prakash, "**Photoluminescence and Photoconductivity Studies of ZnO Nanoparticles Prepared by Solid State Reaction Method**", Electronic Materials Letters (Under review). (**Impact Factor: 1.594**)
 12. **Sheo K. Mishra**, Rajneesh K. Srivastava, S. G. Prakash, "**ZnO Nanoparticles: Structural, Optical and Photoconductivity Characteristics**" Journal of Alloys and Compounds (Under review).(**Impact Factor: 2.134**)
 13. Vineet K. Singh, Pratima Chauhan, **Sheo K. Mishra**, Rajneesh K. Srivastava, "**Synthesis, Characterization and Application of In doped CdS nanoparticles**", Journal of Alloys and Compounds (Under review). (**Impact Factor: 2.134**)
 14. **Sheo K. Mishra**, Rajneesh K. Srivastava, S. G. Prakash, "**A catalyst free synthesis: Optical and photoconductivity properties of ZnO nanoparticles via thermal decomposition**

of Zn (CH₃COOH)₂. 2H₂O at different calcination temperatures”, ACS Publication (Materials and Interface).

[Published Paper in National/ International Conference Proceedings](#)

1. **Sheo K. Mishra**, Raghvendra S. Yadav, R. L. Mishra, Smriti Srivastava, Rajneesh K. Srivastava, A. C. Panday, S. G. Prakash, “**Characterization of Photoconductivity in Cadmium Sulfide Nanoparticles**”, published in Proceeding of 2nd National Conference on Nanomaterials and Nanotechnology (**NATCON NAMTECH-2009**); Department of Physics, Lucknow University, Lucknow, India during 21-23 December, 2009 [Published by Excel India Publishers, New Delhi-110067] (**ISBN: 93-80043-61-9**)
2. **Sheo K. Mishra**, Raghvendra S. Yadav, Rajneesh K. Srivastava, A. C. Pandey, S. G. Prakash, “**Photoconductivity, Dark-conductivity and Photoluminescence of Hydrothermally Synthesized ZnO Nanoparticles**”, published in Proceeding of International Conference on Emerging Trends in Electronic and Photonic Devices and Systems (**ELECTRO-2009**); Department of Electronics Engineering, Institute of Technology, BHU, India Varanasi during 22-24, December, 2009, [Published by Macmillan Publishers India Ltd. New Delhi-110002] (**ISBN: 023-032-851-2**), **IEEE digital library explore**, pp. 461-463, (2009)
3. **Sheo K. Mishra**, Rajneesh K. Srivastava, Nitin Pandey, S. G. Prakash, “**Study of Optical Properties of Zinc-Oxide Nanoparticles Prepared by Thermal Decomposition Method**”, published in Proceeding of 3rd National Conference on Nanomaterials and Nanotechnology (**NATCON NAMTECH-2010**); Amity School of Engineering and Technology, Amity University, Lucknow, UP, India, during 21-23 December, 2010 [Published in book proceeding **Volume 1, Issue 1**] (**ISSN: 2229 4872**)
4. Nitin Pandey, Rajneesh K. Srivastava, **Sheo K. Mishra**, S. G. Prakash, “**Investigation of Photoconductivity, Dark-conductivity of Cu-doped ZnO Nanoparticles**”, published in 3rd National Conference on Nanomaterials and Nanotechnology (**NATCON NAMTECH-2010**); Amity School of Engineering and Technology, Amity University, Lucknow, UP, India during, 21-23 December, 2010 [Published in book proceeding **Volume 1, Issue 1**] (**ISSN: 2229 4872**)
5. **Sheo K. Mishra**, Smriti Srivastava, Rajneesh K. Srivastava and S.G Prakash, “**Photoconductivity study of annealed ZnO particles synthesized by solid state reaction method**”, published in National Seminar on Impact of Physics on Biological Sciences (sponsored by UGC New Delhi) ; Department of Physics, Ewing Christian College (ECC), University of Allahabad, Allahabad, India on **26 August, 2010** [Published in book proceeding] (**ISBN No: 978-81-905712-9-6**) .
6. Smriti Srivastava, **Sheo K. Mishra**, Rajneesh K. Srivastava and S. G. Prakash, “**Electroluminescence characterization in ZnS:Sm,Li**”, published in National Seminar

on Impact of Physics on Biological Sciences (sponsored by UGC New Delhi) ; Department of Physics, Ewing Christian College (ECC), University of Allahabad, Allahabad, India on **26 August, 2010** [Published in book proceeding] (ISBN No: 978-81-905712-9-6) .

Conference / Symposium

1. **“Luminescence characteristic of rare-earth ion doped ZnO nanoparticles”** authored by [Sheo K. Mishra](#), Raghvendra S. Yadav, Rajneesh K. Srivastava, A.C. Panday, S.G. Prakash, International Conference **ICTOPON -2009** held at Department of Physics, University of Allahabad, Allahabad, India, during 5-8 Jan-2009. (Poster Presentation)
2. **“Electro-Optical Properties of Tin Oxide Nano-Crystalline Thin Film”** authored by R.L. Mishra, [Sheo. K. Mishra](#), Smriti Srivastava, R.K. Srivastava and S.G. Prakash International Conference **ICTOPON -2009** held at Department of Physics, University of Allahabad, Allahabad India, during 5-8 Jan-2009. (Poster Presentation)
3. **“Influence of laser ablation time on optical properties of Se NPs”** authored by [Sheo K. Mishra](#), R.L. Mishra, Smriti Srivastava, Rajneesh K. Srivastava, A. C. Panday, S.G. Prakash, National Conference **MMSETLSA-2009**, Department of Physics, University of Allahabad, Allahabad, India, 23-25 March, 2009. (Poster Presentation)
4. **“Electroluminescence study of ZnS:Mn phosphor prepared by solid state reaction method”**, authored by Smriti Srivastava, [Sheo K. Mishra](#), R.L. Mishra, Rajneesh K. Srivastava, S.G. Prakash, National Conference **MMSETLSA- 2009**, Department of Physics, University of Allahabad, Allahabad, India, 23-25 March, 2009. (Poster Presentation)
5. **“Some Physical Properties of CdO Nano-crystalline Thin Film”**, authored by R.L. Mishra, [Sheo K. Mishra](#), Smriti Srivastava, Rajneesh K. Srivastava and S. G. Prakash, National Conference **MMSETLSA-2009**, Department of Physics, University of Allahabad, Allahabad, India, 23-25 March, 2009. (Poster Presentation)
6. **“Photoconductivity study of RE doped Zinc oxide”** authored by [Sheo K. Mishra](#), R.L. Mishra, Smriti Srivastava, Rajneesh K. Srivastava and S.G. Prakash, National Conference **2009**, at Department of Chemistry, CMP Degree College, University of Allahabad, Allahabad, India, 12-13 Sept, 2009. (Poster Presentation)
7. **“Photoconductivity and dark-conductivity in ZnS: Mn²⁺ nanoparticles”** authored by Smriti Srivastava, [Sheo K. Mishra](#), Rajneesh K. Srivastava, S.G. Prakash, National Conference **2009**, Department of Chemistry, CMP Degree College, University of Allahabad, Allahabad, India, 12-13 Sept, 2009. (Poster Presentation)
8. **“Characterization and optical properties of zinc-oxide nanoparticles”** authored by R.L. Mishra, [Sheo K. Mishra](#), Smriti Srivastava, Rajneesh K. Srivastava and S.G. Prakash, 2nd National Conference on Nanomaterials and Nanotechnology (**NATCON NAMTECH** –

- 2009), Lucknow University, Lucknow, during 21-23 December, 2009. (Poster Presentation)
9. **“Photoelectret study of un-doped and rare earth doped ZnO powder phosphors”**, authored by [Sheo K. Mishra](#), Smriti Srivastava, Shipra Upadhyay, Rajneesh K. Srivastava and S.G. Prakash, 3rd National Symposium for Materials Research Scholars, MR-10, 7th-8th May, 2010, Department of Metallurgical Engineering and Materials Science, IIT Bombay, (Poster Presentation).
 10. [Sheo K. Mishra](#), Rajneesh K. Srivastava, S.G. Prakash, “Photoresponse and photoluminescence study of Zinc-Oxide NPs under visible excitation synthesized by solid state reaction method” in National Conference On Recent Trends in Exotic Materials during 26-28, August-2010 at School of Engineering and Technology, Sharda University Greater Noida, UP. (Oral presentation)
 11. **“Photoconductivity in ZnS:Pr using heat treatment technique”**, Smriti Srivastava, [Sheo K. Mishra](#), Rajneesh K. Srivastava, S.G. Prakash, Proceeding in **4th International Conference “INDIAS-2010, ALLAHABAD, INDIA** during September 19th – 21st, 2010, (Poster Presentation).
 12. **“Photoconductivity and dark-conductivity study of ZnO:Al nanoparticles prepared by sol-gel method”** authored by [Sheo K. Mishra](#), Nitin Pandey, Shailendra Pandey, Rajneesh K. Srivastava, S.G. Prakash, International Conference on **Laser Induced Breakdown Spectroscopy, “MMISLIBS-2010”**, Department of Physics, University of Allahabad, Allahabad, India, **December 21-23, 2010**. (Poster Presentation)
 13. **“Study of photoconductivity and dark-conductivity of ZnS:Cu nanoparticles prepared by co-precipitation method”** authored by Nitin Pandey, [Sheo K. Mishra](#), Rajneesh K. Srivastava, S.G. Prakash, International Conference on **Laser Induced Breakdown Spectroscopy, “MMISLIBS-2010”**, Department of Physics, University of Allahabad, Allahabad, India, **December 21-23, 2010**. (Poster Presentation)

[Workshop/ Schooling](#)

1. **“Hydrothermally synthesized self-activated ZnO nanoelectroluminophor”** authored by [Sheo K. Mishra](#), Rajneesh K. Srivastava and S.G. Prakash, Workshop on Laser Spectroscopy and Nanophotonics at IIT Delhi, 14 March, 2008. (Poster Presentation).
2. Workshop on **“Advance Characterization Techniques”** as a part of 3rd National Symposium for Materials Research Scholars, MR-10, held on 6th May 2010, at Department of Metallurgical Engineering and Materials Science, IIT Bombay.
3. Workshop on **“Characterization Techniques in Nanotechnology”** organized by the Academy from Feb. 12-13, 2011, at Allahabad, **ALLAHABAD CHAPTER, NASI**.

4. Winter School on “**Semiconductor Fabrication and Characterization Techniques**” organized by the UGC Networking Resource Center in Physical Sciences during **February 14 – March 4, 2011** at the Institute of Radio Physics & Electronics, University of Calcutta.

References

<p>Prof. S.G. Prakash Ex-Dean of Science, Ex- Head, Department of Electronics & Communication, University of Allahabad, Allahabad, India. Email: prof_sgp@rediffmail.com Mob No: +91-9450308634</p>	<p>Dr. Rajneesh K. Srivastava Sr. Lecturer, Department of Electronics & Communication, University of Allahabad, Allahabad, India. Email: rkumarsau@gmail.com Mob No: +91-9415254349</p>
<p>Prof. Rajiv Tripathi Dean Academics, HOD, Department of Electronics and Communication, MNNIT, Allahabad Email: rt@mnnit.ac.in, Mob No: +91-9415014473</p>	<p>Prof. Raj Kumar The Commonwealth Medical College Department of Basic Sciences Scranton, PA-18510 USA, E-mail: rkumar@tcmedc.org Phone: 570-504-9675, Fax: 570-504-9660</p>