

Curriculum Vitae

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Professional Background:

From	To	Designation	Organisation
April, 2018	(Present, 2018)	Assistant Professor	Pettigrew College, Ukhrul
December, 2014	April, 2018	Assistant Professor	NERIST, Itanagar
March, 2014	December, 2014	Guest Lecturer	Manipur University
April, 2013	March, 2014	Senior Research Fellow	CSIR, New Delhi; Manipur University
May, 2009	March, 2012	Junior Research Fellow/ Senior Research Fellow	DAE-BRNS, BARC, Mumbai; Manipur University

Educational Details:

Degree	Subject	University	Year
Ph.D.	Physics (Nanoscience)	Manipur University	2014(March)
M.Sc.	Physics (Condensed Matter Physics)	Manipur University	2008

M.Sc. Projects Supervised:

Title of Project	Names of Students
Crystal Structure Analysis of ZrO ₂ Powder XRD Data (M. Sc. 2015)	Ms. Tome Modi
Historical Development and Prospect of Efficient Lighting (M. Sc. 2016)	Mr. Yambem Pauljit Singh

Nanocrystalline Phosphor in Pixel for Enhanced Resolution of Color Display (M. Sc. 2017)

Mr. Dipankar Sharma Bordoloi

Ph.D. Supervising:

Topic	Scholar's Name	Status of Ph.D.	Registration Year
Photoluminescence of $\text{Ln}_2\text{O}_3: \text{Ln}^{3+}$ (Ln = Eu, Gd, Dy) Nanocrystalline Phosphors	Mr. Linson Bowa	In progress	2017

Publications (International Research Papers):

- SD Meetei**, SD Singh, NS Singh, V Sudarsan, RS Ningthoujam, M Tyagi, SC Gadkari, R Tewari and RK Vatsa, Crystal structure and photoluminescence correlations in white emitting nanocrystalline $\text{ZrO}_2:\text{Eu}^{3+}$ phosphor: Effect of doping and annealing, *J. Lumin.*, 132 (2012) 537–544 ISSN, No. 0022-2313, DOI:10.1016/j.jlumin.2011.09.011
- SD Meetei**, SD Singh and V Sudarsan, Polyol synthesis and characterizations of cubic $\text{ZrO}_2:\text{Eu}^{3+}$ nanocrystals, *J. Alloy. Compd.*, 514 (2012) 174–178, ISSN No. 0925-8388, DOI: 10.1016/j.jallcom.2011.11.051
- SD Meetei** and SD Singh, Hydrothermal synthesis and white light emission of cubic $\text{ZrO}_2:\text{Eu}^{3+}$ nanocrystals, *J. Alloy. Compd.*, 587 (2014) 143–147, ISSN No. 0925-8388, DOI: 10.1016/j.jallcom.2013.10.159
- SD Meetei** and SD Singh, Effects of crystal size, structure and quenching on the photoluminescence emission intensity, lifetime and quantum yield of $\text{ZrO}_2:\text{Eu}^{3+}$ nanocrystals, *J. Lumin.*, 147 (2014) 328–335, ISSN No. 0022- 2313, DOI: 10.1016/j.jlumin.2013.11.064
- NS Singh, SD Singh and **SD Meetei**, Structural and photoluminescence properties of terbium-doped zinc oxide nanoparticles, *Chin. Phys. B*, 23 (5) (2014) 058104, ISSN No. 1674-1056, DOI: 10.1088/1674-1056/23/5/058104

6. **SD Meetei**, MD Singh and SD Singh, Facile synthesis, structural characterization and photoluminescence mechanism of Dy³⁺ doped YVO₄ and Ca²⁺ co-doped YVO₄:Dy³⁺ nano- lattices, *J. Appl. Phys.*, 115 (2014) 204910, ISSN No. 0021-8979, DOI: 10.1063/1.4880176
7. S Nambram, SD Singh, **SD Meetei**, Synthesis and characterization of white light-emitting Dy³⁺-doped Gd₂O₃ nanophosphors, *Indian J. Phys.*, (2015) ISSN No. 0973-1458, DOI: 10.1007/s12648-015-0750-4
8. R Konsam, **SD Meetei**, SD Singh, Role of Eu²⁺ on the blue–green photoluminescence of In₂O₃:Eu²⁺ nanocrystals, *Mater. Charact.*, 114 (2016) 197–203, ISSN No. 1044-5803, DOI: 10.1016/j.matchar.2016.01.025
9. **SD Meetei**, EC Devi, SD Singh, On the fundamental mechanism of multicolor light generation from Y₂O₃:Dy³⁺/Eu³⁺ nanocrystal, *Results Phys.* **13** (2019) 101975, ISSN No.2211-3797, DOI: 10.1016/j.rinp.2019.01.009

Paper Presented in Conferences:

1. Single-component Y₂O₃: Dy³⁺/ Eu³⁺ nanocrystal as multicolor light emitter; 105th Indian Science Congress (ISC-2018); Manipur University, Manipur, India (**International**)
2. Multicolour light emitting Y₂O₃: Dy³⁺/ Eu³⁺ nanocrystal for solid state UV sensor; National Conference on Recent Advances in Nanoscience and Nanotechnology (NCRANNT-2016); Department of Nanotechnology, NEHU, Shillong, India (**National**)
3. Y₂O₃: Dy³⁺ and Y₂O₃: Dy³⁺/ Eu³⁺ nanophosphors: A novel solid state UV sensor analogous to pH paper; Winter School – 2014 on Frontier in Materials Science; International Centre for Material Science; Jawaharlal Nehru Centre for Advanced Scientific Research; University of Cambridge and Sheikh Saqr Laboratory (**International**)
4. Chemical Synthesis and Photoluminescence of YVO₄:Dy³⁺/Ca²⁺ Nanocrystals; National Conference on the Emerging Research Avenues in Chemical Sciences (NCERACS-2014); Department of Chemistry, Manipur University, Manipur, India (**National**)
5. Photoluminescence enhancement of YVO₄:Dy³⁺ nanocrystal by Ca²⁺ co-doping; Light in Chemistry, Material & Biology (LCMB 2014); Department of Chemistry, IIT Kharagpur, West Bengal, India (**International**)
6. Europium (III) doped zirconia: A phosphor for shaping the future of lighting; Science for Shaping the Future of India (NSSFI-2012); The Indian Science Congress Association, Imphal Chapter, Manipur, India (**National**)

7. Frontier in chemical synthesis of zirconia; National Conference on Frontier in Chemical Science (NCFCS-2012); Department of Chemistry, Manipur University, Manipur, India (**National**)
8. White light from ZrO₂:Eu³⁺ nanomaterials; National Seminar cum Workshop on Luminescence and its applications (NSWLA-2011); Department of Physics, Thoubal College, Thoubal, Manipur, India (**National**)
9. Photoluminescence of cubic Zr_{1-x}O₂; 2nd International Conference on Advanced Nanomaterial and Nanotechnology (ICANN-2011); Department of Physics and Nanotechnology, IIT Guwahati, Assam, India (**International**)
10. Photoluminescence study of nanocrystalline ZrO₂ doped with Eu³⁺; DAE-BRNS International Symposium on Materials Chemistry (ISMC- 2010); Chemistry Division, Bhabha Atomic Research Centre, Mumbai, India (**International**)

Participation in Short Term/Refresher/Orientation Courses/Programme, etc:

Course Name	Sponsored By	Date
Training Programme on the Applications of X-ray Diffraction in Materials Characterization	Physics Department, Manipur University	20th June - 2nd July, 2011
Two Weeks Workshop on Mathematica	Mathematics Department, Manipur University	7th -21st Sept., 2011
Electron Microscopic Techniques: Holey Film, Carbon Film and Ultramicrotomy	National Institute of Cholera and Enteric Diseases, Kolkata, West Bengal	30th July, 2012
Winter School – 2014 on Frontier in Materials Science	ICMS, JNCASR; University of Cambridge & Sheikh Saqr Laboratory	1st - 5th Dec., 2014
Recent trends in Microprocessors, Microcontroller and Their Applications	TEQIP (MHRD-World Bank Project), NERIST	17th-21st Feb., 2015
Induction Training	NTTTR, Kolkata	11th - 20th Sept., 2015
4th INDEST User Convention (E-Journals User Training Workshop)	AICTE-INDEST User Committee, NERIST	22nd-23rd Aug. & 31st Oct., 2015

UGC-Sponsored Orientation Programme	UGC-HRDC, Manipur University	1st - 30th Dec., 2015
Inside a Publishers' Mind	SpringerNature & NIT Manipur	3rd-4th July, 2017
Refresher Course on Material Sciences	UGC-HRDC, University of Hyderabad	4th-24th Aug., 2017

Memberships of Professional Bodies:

1. Luminescence Society of India (LSI), Lifetime Member No. 638
2. Physics Academy of the North East (PANE), Lifetime Member No. 206
3. Indian Physical Society (IPS), Lifetime Member No. LM/1068
4. Materials Research Society of India (MRSI), Lifetime Member No. LMB2549
5. Indian Science Congress Association (ISCA), Lifetime Member No. L35559

Peer-reviewer (Invited) of the Following Journals:

- (1) Journal of Applied Physics [American Institute of Physics]
- (2) Superlattices and Microstructures [Elsevier]
- (3) Materials Characterization [Elsevier]
- (4) Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy [Elsevier]
- (5) Journal of Physics D: Applied Physics [IOP Publishing]
- (6) Materials Science & Engineering B [Elsevier]