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Date of Birth : 01/March/1964

Date of Joining : 04/September/1987

Date of Superannuation : 28/February/2029

Educational Profile

Academic Qualification (M.A./M.Com./M.Sc. onwards) :

Exam Passed	University	Year of Passing	Division	% of Marks	Subject/ Title of Dissertation/ Thesis/ Specialisation
M.Sc.	NEHU, Shillong	1986	I (First)	66.2	High Energy Physics
Ph.D.	Manipur University	2002			Thermoluminescence Studies of Quartz & Feldspars having Applications to Dating

Teaching & Administrative Experience

a) Teaching	No. of years
i) Under-graduate level	29
ii) Principal of College	2

Training Courses, Teaching-Learning-Evaluation Technology Programmes, Faculty Development

Sl.No	Programme	Duration	Organised by
1	UGC -Sponsored Refresher Course in Physics	05-12-1994 to 24-12-1994	Academic Staff College, Rani Durgavati Vishyavidyalaya, Jabalpur
2	UGC -Sponsored Refresher Course in Physics	15-02-1999 to 13-03-1999	Academic Staff College, Aligarh Muslim University, Aligarh.
3	UGC -Sponsored Refresher Course in Physics	22-11-2003 to 17-01-2004	Department of Physics, Manipur University
4	Experimental Programme on TSL and ESR	12-02-2000 to 03-03-2000	Radiochemistry Division, Bhaba Atomic Research Centre, Mumbai

Member of Specific position in any academic organisation or body:

1. Life Member, Indian Science Congress
2. Life Member, Luminescence Society of india.

Research Guidance

Sl. No.	Name of the Ph.D./M.Phil. Scholar	Title of the Thesis/Dissertation
1	S. Bidyaswor Singh (M.Phil.)	Thermoluminescence Dating of the River terraces of Manipur, India
2	Th. Ranjan Singh (M.Phil.)	Thermoluminescence Applications in Dosimetry
3	Th. Sharat Singh (M.Phil.)	Thermoluminescence Studies of Some Non Crystalline Materials: Application to Dating
4	L. Nimai Singh (M.Phil.)	Techniques of Archaeological Dating Using Physical Phenomena
5	M. Deverta Singh (M.Phil.)	Thermoluminescence Studies Of Some Feldspar And Its Trap Spectroscopy
6	M. Mandakini Devi (M.Phil.)	Luminescence Studies Of Quartz: Implication To Dating
7	N.Sushilal Devi (M.Phil.)	Dosimetry in day-to-day necessity
8	H. Buntly Devi (M.Phil.)	Application Some of the Commonly Available Cheap Materials as Luminescence Dosimeters
9	O. Alena Devi (M.Phil.)	Spectroscopy of Borate glass as studied by Luminescence technique
10	Th. Chaoba Singh (M.Phil.)	Thermoluminescence of Quartz and Feldspar Having Application to Dating
11	S. Kamala Devi (M.Phil.)	Luminescence Modeling : Its Implication to Dating and Dosimetry

12	S. Bidyaswor Singh (Ph.D.)	Thermoluminescence and Optically Stimulated Luminescence Dating of River Terraces of Manipur
13	L. Raghmani Singh (Ph.D.)	Study of Optical, Photoluminescence and Photoconductivity properties of PbS and ZnS PVA matrix Nanocomposites
14	N. Ibobi Singh (Ph.D.)	Undergoing
15	Chingkhei Singh (Ph.D.)	Undergoing

Publications in Journals/Books/Conference/Seminars:

In Journals:

Sl. No.	Title	Journal	ISSN/ ISBN
1	Computerized Glow Curve Deconvolution: The Case Of 110°C Peak Of Chert	<i>Indian Journal of Physics</i> , 71A(2) , 173-182 (1997)	0973-1458
2	Limitations and Potentialities of Computerized Glow Curve Deconvolution (CGCD) in the Kinetics Formalism	<i>Indian Journal of Physics</i> , 73A(5) , 647-652, (1999)	0973-1458
3	Computerized glow curve Deconvolution on thermoluminescence of Cu-doped borate glass	<i>Indian Journal of Pure & Applied Physics</i> , 42 , 886-889 (2004)	0019-5596
4	Evidence of Trap Distribution in Borate Glass	<i>International Journal of Modern Physics B</i> , 20 (23) , 3307-3317 (2006),	0217-751X
5	Spectroscopy of traps as determined by CGCD and VHR : the case of colorless microcline	<i>International Journal of modern physics B</i> , 22 (24) , 4163-4173 (2008),	0217-751X
6	Application of computerized glow curve deconvolution to determine the spectroscopy of traps in colorless microcline	<i>Radiation Measurements</i> , 44 , 32 – 37 (2009)	1350-4487
7	Thermoluminescence of Li ₂ B ₄ O ₇ :Cu and La	<i>Indian Journal of Pure and Applied Physics</i> , 50 , 358- 362, (2012)	0019-5596
8	Analysis of thermoluminescence of Li ₂ B ₄ O ₇ :Cu, Ag, P phosphor by simplified General one Trap differential equation	<i>Indian Journal of Physics</i> , 89(1) , 41-44 (2014)	0973-1458
9	Dating of the terrace of Thongjaolok River (Manipur, India) using TL Technique	<i>Int. J. of Lumin. & Applications</i> , 5(1) , 118-120 (2015)	2277-6362
1	Study of Structural and Optical properties of CdS thin films prepared by CBD method	<i>International Journal of Optical Sciences</i> , 2(1) , 7-13 (2016)	XXXX

11	Chemical Bath Deposition Technique Synthesis and Characterization of V-doped ZnO Nano-crystalline Thin Film	<i>Int. J. of Nanotech. & Applications</i> , 10(1) , 19-28 (2016)	0973-631X
12	Estimation of age of the Historic Imphal River Terraces by Physical Techniques	<i>International Journal of Engineering Technology Science and Research</i> , 4(8) , 1265 - 1269 (2017)	2394-3386
13	Study of the Optical Properties of Nanocrystalline ZnS Thin Films Fabricated by CBD Technique	<i>International Journal of Engineering Technology Science and Research</i> , 4(9) , 505-509 (2017)	2394-3386
14	Analysis of Thermoluminescence Glow Curve of Doped Lithium Tetraborate by Various Heating Rate Method	<i>International Journal of Electronics, Electrical and Computational System</i> , 6(9) , 377-381 (2017)	2348-117X
15	Analysis of the Properties of γ -Irradiated Natural Salt by Thermoluminescence Technique	<i>International Journal of Electronics, Electrical and Computational System</i> , 6(9) , 382-386 (2017)	2348-117X
16	Synthesis and Characterization of PbS Nanocrystalline Thin Films Synthesized by CBD Method	<i>International Journal of Electronics, Electrical and Computational System</i> , 6(9) , 387-391 (2017)	2348-117X
17	Timescale of the Terrace of Sekmai River by Luminescence Dating Technique	<i>International Journal of Electronics, Electrical and Computational System</i> , 6(9) , 392-395 (2017)	2348-117X
18	Synthesis and Thermoluminescence in Li ₂ B ₄ O ₇ : Cu, Ag, P phosphors	<i>International Journal of Electronics, Electrical and Computational System</i> , 6(9) , 396-399 (2017)	2348-117X
19	Structural and Optical Properties of CdS Thin Films Prepared by Chemical Bath Deposition Technique	<i>International Journal of Engineering Technology Science and Research</i> , 4(9) , 644-649, (2017)	2394 –3386
20	Thermoluminescence Studies of Ba ₂ SO ₄ by CGCD Method	<i>International Journal of Engineering Technology Science and Research</i> , 4(9) , 654-58, (2017)	2394 –2386
21	Synthesis and Study of Nanostructured ZnS Thin Films by CBD	<i>International Journal of Current Trends in Engineering & Technology</i> , 3(4) , 177-180 (2017)	2395 - 3152
22	Structural and Optical Characterization of Chemically prepared Barium Doped CdS Nanostructured Thin Films	<i>International Journal of Current Trends in Engineering & Technology</i> , 3(4) , 181-185 (2017)	2395 - 3152
23	A Brief Study of ZnO Nanocrystalline Thin Films Synthesized by CBD Technique	<i>International Journal of Computer & Mathematical Sciences</i> , 6(9) , 257-262 (2017)	2347 - 8527
24	An Expression for the lifetime in Second Order Kinetics	<i>International Journal of Electronics, Electrical and Computational System</i> , 6(9) , 524-528 (2017)	2348-117X

25	Synthesis and Analysis of Al ₂ O ₃	<i>International Journal of Electronics, Electrical and Computational System</i> , 6(9) , 529-533 (2017)	2348-117X
26	Thermoluminescence Study of Saline Water of Ningel, Manipur	<i>International Journal of Engineering Technology Science and Research</i> , 4(9) , 1159-1162 (2017)	2394 –2386
27	Thermoluminescence Dating of Fluvial Terraces Of Itok River, Chandrakhong, Manipur (India)	<i>International Journal of Engineering Technology Science and Research</i> , 4(9) , 1163-1166 (2017)	2394 –2386
28	Structural Characterization of PbS and Cd-doped PBS Nanocrystalline thin film fabricated by Chemical Bath Deposition Technique	<i>International Journal of Innovative Research in Science, Engineering and Technology</i> , 7(1) , 537-541, (2018).	2347-6710

In Conference/Seminar/Workshop proceedings

Sl. No.	Title of Lecture/ Academic Session	Title of Conference/ Seminar etc.	Organized by
1	Thermoluminescence of Brown Microcline	National Con. on Luminescence and its Applications – 97	Luminescence Soc. of India (LSI) & School of Studies in Physics, Pt. Ravishankar Shukla University, Raipur, 1997
2	On the mathematical description of a glow peak of feldspar,	National Con. on Luminescence and its Applications – 98	LSI & Deptt. of Phys., Manipur University
3	Thermoluminescence of Moonstone	National Conference on Luminescence and its Applications – 98	LSI & Deptt. of Phys., Manipur University
4	Evidence of Trap distribution in an Oligoclase Feldspar	International Symposium on Luminescence and its Applications - 2000	LSI & M S University, Baroda
5	On the Kinetics of Natural Thermoluminescence Peaks of Natural Quartz	National Symposium on Luminescence and its Applications - 2001	LSI & Osmania University, Hyderabad
6	On The Kinetics Of The Red Thermoluminescence (RTL),	National Symposium on Luminescence and its Applications-2002	LSI & R D University, Jabalpur
7	TL/OSL of Agate (Banded Chalcedony, SiO ₂),	National Seminar on Luminescence and its Applications-2003	LSI & NPL, New Delhi

8	Optically stimulated luminescence dosimetry based on KCl	National Conference on Luminescence and its Applications-2005	LSI & Bangalore University, Bangalore
9	Determination of spectroscopy of traps of complex glow curves by Various Heating Rates Method	National Conference on Luminescence and its Applications-2006	LSI & SGB Amravati University, Amravati
10	OSL Dating of artefacts excavated from Kangla, Manipur, India	International Conf. on Lumin& Applications 2008	LSI & NPL, New delhi
11	Spectral Information from Quartz collected from CheiraoChing, Manipur, India	Proc. of National Conference on Luminescence and its Applications -2009	LSI, Indian Cultivation of Sci. & Central Glass and Central Ceramic Research Institute, Kolkatta
12	Spectroscopy of Traps of Al ₂ O ₃ as Determined by Various Heating Rates Method (VHR)	Proc. of National Conference on Luminescence and its Applications -2009	LSI, Indian Cultivation of Sci. & Central Glass and Central Ceramic Research Institute, Kolkatta
13	Borate Glass: A Potential Candidate in radiation Dosimetry	National Conference on Luminescence and its Applications -2009	LSI, Indian Cultivation of Sci. & Central Glass and Central Ceramic Research Institute, Kolkatta
14	Thermoluminescence of natural salt relevant to dosimetry	National Conference on Luminescence and its Applications -2010	LSI, Gandhigram Rural Institute (Gandhigram)&Kalaslingam University (Krishnankoli)
15	Determination of the Age of SekmaiTurel (River) by Luminescence Dating Technique,	National Conference on Luminescence and its Applications -2010	LSI, Gandhigram Rural Institute (Gandhigram)&Kalaslingam University (Krishnankoli)
16	Determination Of Traps Of Lithium Borate By CGCD	National Conference on Luminescence and its Applications -2010	LSI, Gandhigram Rural Institute (Gandhigram)&Kalaslingam University (Krishnankoli)
17	Study of Thermal Treatment of prepared Li ₂ B ₄ O ₇ :Cu thermoluminescencedosimeter	National Conference on Luminescence and its Applications -2010	LSI, Gandhigram Rural Institute (Gandhigram)&Kalaslingam University (Krishnankoli)
18	Spectroscopy of Traps Of NaCl(I) as determined By Computerized Glow Curve Deconvolution	National Conference on Luminescence and its Applications -2010	LSI, GandhigramRural Institute (Gandhigram)&Kalaslingam University (Krishnankoli)
19	Luminescence Dosimetry Based On Iodised Salts	National Conference on Luminescence and its Applications -2010	LSI, Gandhigram Rural Institute (Gandhigram)&Kalaslingam University (Krishnankoli)
20	Fading correction Of Li ₂ B ₄ O ₇ : Cu, Ag, P thermoluminescence dosimeter	National Conference on Luminescence and its Applications -2011	Pt. RavishnkarShukla University (Raipur), Lumin. Soc. of India &Disha Inst. Of Mnagement and Technology (Raipur)
21	Methods of preparation of Li ₂ B ₄ O ₇ :Cu,Ag,P and their effects on	National Conference on Luminescence and its Applications -2011	Pt. RavishnkarShukla University (Raipur), Lumin. Soc. of India &Disha Inst. Of Mnagement and

	thermoluminescence properties,		Technology (Raipur)
22	Thermoluminescence of $\text{Li}_2\text{B}_4\text{O}_7:\text{Cu}$, Ag, P Phosphors	National Conference on Luminescence and its Applications -2011	Pt. RavishnkarShukla University (Raipur), Lumin. Soc. of India &Disha Inst. Of Mnagement and Technology (Raipur)
23	Techniques of dating based on the radiation damage	National Seminar Cum Workshop on Luminescence and its Applications – 2011	Physics Deptt. (Thoubal College), CCpur College, RIMS & LSI
24	Evaluation of trapping parameters in the thermoluminescence glow curve of doped lithium tetraborate phosphor	National Seminar Cum Workshop on Luminescence and its Applications – 2011	Physics Deptt. (Thoubal College), CCpur College, RIMS & LSI
25	Patient dosimetry over different parts of the body during external radiotherapy treatment	National Seminar Cum Workshop on Luminescence and its Applications – 2011	Physics Deptt. (Thoubal College), CCpur College, RIMS & LSI
26	Lifetime analysis of the glow peaks of $\text{Li}_2\text{B}_4\text{O}_7:\text{Cu,La}$	National Seminar Cum Workshop on Lumin& Application - 2011	Physics Deptt. (Thoubal College), CCpur College, RIMS & LSI
27	Dosimetry properties of doped Lithium Tetraborate as determined by Thermoluminescence Technique	4 th International Conference on Luminescence and its Applications – 2012	Rajib Gandhi Univ. Of Knowledge Tech., yderabad, Ind. Inst. Of Chemical Tech., hyderabad, SID, & LSI
28	Spectroscopy of Traps in $\text{Li}_2\text{B}_4\text{O}_7$; Cu as determined by CGCD and VHR	4 th International Conference on Luminescence and its Applications – 2012	Rajib Gandhi Univ. Of Knowledge Tech., yderabad, Ind. Inst. Of Chemical Tech., hyderabad, SID, & LSI
29	Application of CGCD to determine the spectroscopy of traps in Pb-doped borate glass	National Workshop on Lumin. Materials Devices & Applications, 2012	Department of Physics, Banglore University, Banglore
30	Thermoluminescence properties of borate glass	National Seminar cum Workshop for Cultural Heritage, 2012	Archaeological Survey of Inia&Department of Physics, D.M. College of Science.
31	Study of PVA capped lead sulphidenano-thin film by CVD technique	National Seminar cum Workshop for Cultural Heritage	Archaeological Survey of Inia&Department of Physics, D.M. College of Science.
32	All about building bocks of matter	National Workshop on Particle Physics	St. Anthony's College, Shillong
33	TL studies of $\text{Li}_2\text{B}_4\text{O}_7:\text{Cu}$, Ag, P: Implication to Clinical Dosimetry	UGC National Seminar on recent trends in advanced materials	Physics Deptt., Manipur University
34	Study of ZnS nanostructured Thin Films Prepared by CBD Method	UGC sponsored One Day National Conference on Synthesis of Materials: Characterization &Applications - 2014	JM Patel arts, Commerce & Science College, Bhandara (M.S.)
35	Development of optimized NIR persistent luminescence nano material for in-vivo optical imaging	105-Indian Science Congress, Manipur.	Manipur University, Canchipur

Books

Sl. No.	Title with Page nos.	Book Title, editor & publisher	ISSN/ ISBN
1	Proceedings of Two day National Seminar Cum Workshopon Luminescence and its Applications	IAEA/INIS (International Atomic Energy Agency /The International Nuclear Information System) Collection	RN: 43102347 Volume - 43 Issue No. - 41
2	The Salt: Luminescently Cooked	Ruby Press & Co, New Delhi	978-93-82395-72-0
3	Dating with River Terraces: Technique of Luminescence	Ruby Press & Co, New Delhi	978-93-82395-47-8
4	ZincSulphide: A Nanostructured Material	Ruby Press & Co, New Delhi	639337669-X

Research Projects and Consultancies

SL. No.	Title/Name	Sponsoring Agency
1	“Applications of Thermoluminescence (TL) in Environmental Dosimetry” Project No. F.5-141/2012-13/MRP/NERO/543 dated 30 April 2013	Minor research Project under UGC
2	“ <u>Thermoluminescence Studies in Quartz and Feldspars having application to Dating</u> ” Proj. No.F.5-215/98 (MRP/NER)/128 dt. 2 Nov. 1998.	Minor research Project under UGC
3	Development of a Thermoluminescence Dosimeter (TLD) base on Borate Glass : Implication to Clinical Dosimetry” Proj. No.41/05/2008/7002 dt 18.07.2008	Atomic Energy Regulatory Board(AERB/CSRP), Department of Atomic Energy(DAE), Mumbai.
4	Analysis of NIR persistence Luminescence Nanomaterials by LM-OSL Proj. No. SR/NM/NT-1030/2017	Nano Mission, Department of Science & Technology (DST), New Delhi