Curriculum Vitae

Shailendra Kumar Sharma

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Date of Birth: 23.08.1975

Category: General

Research Interest: Optical & Luminescence studies

Applications of luminescent materials in LED, display devices & solar cells

Examination	Branch/ Specialization	College/University /Institute		Percentage /Grade	Class/ Division
1 oth					
10 th			1990	66.1	1 st
	Biology, Hindi,	Muzaffarnagar			
	English, S. Science	(U. P. Board, Allahabad)			
12 th	Physics,	S.D. Inter College,	1992	65	1 st
	Chemistry, Math,	Muzaffarnagar			
	Hindi, English	(U. P. Board, Allahabad)			
B.Sc.	Physics,	S.D. College, Muzaffarnagar	1995	62.3	1 st
	Chemistry, Math	(Ch. Charan Singh University,			
		Meerut, U.P.)			
M.Sc.	Physics	S.D. College, Muzaffarnagar	1997	70.6	1 st
		(Ch. Charan Singh University,			
		Meerut, U.P.)			
M.Phil.	Applied Physics	IIT (ISM), Dhanbad	2002	OGPA 5/5	1 st
Ph.D.	Applied Physics	IIT (ISM), Dhanbad	2006	-	-

Educational qualification: M.Sc. M.Phil. Ph.D.

Journal publications: 117 (Details are given in the List of Publications)

Students guided for project/dissertation:

Ph.D. : 10 (as Sole guide)

: 04 (as Principal guide)

: 01 (as Co-guide)

M.Phil.:05 **M.Sc.:** 40



Experience:

More than 23 years (excluding Ph.D.)

Sl.	Employer	Position held	Date of joining/leaving
No.			
1.	Proof & Experimental Establishment, DRDO Lab, Chandipur (Orissa)	JRF SRF	31.12.97 to 30.12.99 31.12.99 to 04.04.01 (3 years 3 months)
2.	University of Petroleum & Energy Studies, Dehradun	Lecturer	23.08.04 to 26.07.06 (2 years)
3.	North-Eastern Regional Institute of Science & Technology, Itanagar	Lecturer	31.07.06 to 28.02.07 (7 months)
4.	IIT (ISM), Dhanbad	Assistant Professor	02.03.07 to 01.03.10 (3 years)
5.	IIT (ISM), Dhanbad	Associate Professor	02.03.10 to 11.07.24 (14 years 4 months)
6.	IIT (ISM), Dhanbad	Professor	12.07.24 to till date

Details of Ph.Ds. supervised as Sole guide:

Sl.	Name of	Title of thesis	Name of	Year of
No.	Student		scheme/project	Award
1.	Mr. Anjani	Structural and luminescence studies of undoped	IIT (ISM)-JRF	2012
	Choubey	and doped mixed sulphate phosphors		
2.	Mr. Sudipta	Swift heavy ion induced structural and	UGC Project-JRF	2014
	Som	luminescence studies of rare earth doped yttrium		
		oxide nanophosphors		
3.	Ms. Somrita	Optical spectroscopic studies of rare earth doped	DST Project-JRF	2015
	Dutta	molybdate phosphors		
4.	Ms. Mitali	Synthesis and characterization of SnO ₂ based	IIT (ISM) JRF	2016
	Chowdhury	nanocomposites for optoelectronic applications		
5.	Mr. Arup	Development of oxide based hybrid thin films for	UGC-DAE Project	2017
	Kumar	optoelectronic applications	JRF	
	Kunti			
6.	Mr. Navneet	Development and characterization of Schiff base	CSIR (NET) JRF	2020
	Kumar	compounds for optoelectronic devices		
7.	Ms. Akta	Development of phosphors for solar cell and led	IIT (ISM) JRF	2020
	Verma	applications		
8.	Ms. Jyoti	Studies on optoelectronic properties of lanthanide	IIT (ISM) JRF	2021
	Priya	based beta diketone complexes		
9.	Mr. Amit	Structural and optical properties of undoped and	External Candidate	2021
	Kumar	doped tungstate phosphors		
	Ambast			
10.	Mr. Birendra	Synthesis & characterization of metal	Rajeev Gandhi	2021
	Kumar	chalcogenide compounds for photovoltaic	National Fellowship	
	Rajwar	application	of UGC New Delhi	

Details of Ph.Ds. supervision of external candidates:

1.	Mr. Suresh Kumar	Development of ZnCdS Nanocrystalline Film using Chemical Bath Deposition	External Guide & Co-guide: Prof. S.R. Kumar, NIAMT Ranchi Prof. D. Roy, NIAMT Ranchi	2018
2.	Mr. Nagesh Sharma	Synthesis and characterization of thin films for Micro-electro-mechanical- system devices	External Guide: Dr. M. Hooda Semi-Conductor Laboratory S.A.S Nagar (Punjab)	2020
3.	Ms. Soni	Development of hard, optically transparent, hydrophobic nanocomposite coatings by magnetron sputtering	External Guide: Dr. Suman Kumari Mishra (Retd.) NML Jamshedpur	2021
4.	Mr. Asheesh Mishra	A comparative study of radon-22 and gamma level variation in the environment around uranium and copper industries of Singhbhum region of Jharkhand	Co-guide: Prof. D C Panigrahi (Retd.) IIT (ISM) Dhanbad External Guide: Dr. A. K. Sarangi (Retd.) UCIL Jaduguda	2021

Details of Ph.Ds. supervised as Co-guide:

1.	Ms.	Development and investigation of	Guide & Co-guide:	2024
	Chandni	structural and optical properties of rare-	Prof. J. Manam	
	Kumari	earth doped antimonate phosphors	(Guide, IIT (ISM) Dhanbad) &	
			Prof. S. K. Sharma (Co-Guide)	

Details of Sponsored R & D projects completed:

Sl.	PROJECTS	Funding	Duration	Amount	Present
No.		Agency			Status
1.	PI:	UGC,	01.02.2010	Rs 7.43	Completed
	Structural & luminescence properties of	New Delhi	to	lacs	
	rare earth doped Y ₂ O ₃ nanophosphors		31.01.2013		
	induced by swift heavy ions.		(3 years)		
2.	PI:	DST,	2011-2014	Rs 20.94	Completed
	Optical spectroscopic studies of rare earth	New Delhi	(for 3	lacs	
	doped molybdate phosphors.		years)		
3.	PI:	UGC-DAE,	2013-2017	Rs 7.38	Completed
	Synthesis and characterization of	Indore	(for 3	lacs	
	nanocomposite thin films for		years)		
	optoelectronic applications.				
4.	Co-PI:	SERB	2014-2017	Rs 44.25	Completed
	Development of multicolour long lasting	(DST),	(for 3	lacs	
	phosphors based on colour conversion	New Delhi	years)		
	process.				
5.	Co-PI:	SERB	2019-2022	Rs 46.23	Completed
	Development of near infrared long	(DST),	(for 3	lacs	
	persistent phosphors for defence and	New Delhi	years)		
	security applications.				

Department Level Project:

1.	Deputy Coordinator:	UGC,	2009-2014	Rs 68.5	Completed
	UGC-Special Assistance Programme (SAP)	New Delhi	(for 5	lacs	
	Thrust area- Materials Science		years)		

Details of Seminars & Conferences organized:

Sl.	Title	Role	Dates of	Role of other faculty
No.			Conference/Seminar	members
1.	National Seminar on	Co-convener	9-10 February, 2011	Convener-
	"Nanomaterials & their			Prof. J. Manam
	applications"(NANOMAT-2011)			Organizing Secretary:
				Prof. A. K. Kar
2.	International Conference on	Convener	18-20 November, 2013	Co-convener:
	"Structural & Physical properties			Prof. P. K. Sharma
	of solids" (SPPS-2013)			Organizing Secretary:
				Prof. R. Thangavel

Details of Training Programme organized:

Sl.	Title	Role	Dates & Venue	Role of other faculty
No.				members
1.	Faculty Development Programme	Coordinator	19-24 March, 2018 at	Co-coordinators:
	on "Advanced Materials		Dept. of Physics,	Prof. Kaushal Kumar
	Characterization Techniques"		IIT (ISM) Dhanbad	& Prof. A.K. Nirala
2.	DST-STUTI Training Programme	Coordinator	22-28 July, 2022 at	Co-coordinator:
	on "Nanostructured Materials and		Dept. of Physics,	Prof. Kaushal Kumar
	Devices: Fabrication,		BIT Mesra, Ranchi	
	Characterization and Applications"			
3.	DST-STUTI Training Programme	Coordinator	12-18 December, 2022	Co-coordinator:
	on "Fabrication and Characterization		at Dept. of Physics,	Prof. R. Thangavel
	of Advanced Photovoltaic Devices"		IIEST Shibpur Howrah	C

Details of Foreign visits :

Sl. No.	Place visited	Duration	Purpose
1.	Universidad de Sonora,	2 – 10 October, 2010	To present research paper in the
	Hermosillo, Mexico		International Conference on Luminescence
2.	University of the Free	4-16 February, 2016	Lab visit & scientific interaction for joint
	State (UFS),		research work. MOU was signed between
	Bloemfontein,		IIT (ISM) & UFS South Africa.
	South Africa		
3.	University of Brest,	June 17-24, 2018	To present research paper & Co-chaired one
	Brest, France		technical session of the International
			Symposium on Luminescence Spectrometry

Awards/Honors received:

Year	Name of Award/Honor	Name of Organization
1997	Gold medal for getting first position in M.Sc.	e i
	Physics	(U.P.).
1997-2001	DRDO fellowship to work on DRDO project	DRDO, New Delhi