

## BIO-DATA OF DR. MRS. ANUBHA SINGH GOUR



- A. NAME** - **ANUBHA SINGH GOUR**  
Ph.D., M.Phil, M.Sc.
- B DESIGNATION** - Associate Professor,  
School of Studies in Physics and Astrophysics  
Pt. Ravishankar Shukla University  
Raipur (C.G.)
- C FATHER'S NAME** - Dr. R.K. Singh
- D MARTIAL STATUS** - Married
- E HUSBAND'S NAME** - Shri S. Singh Gour
- F DATE OF BIRTH** - April 18, 1969 State-C.G.
- G RESIDENTIAL ADDRESS** -Qu.No. M. 216, Sec  
Pt. Deendayal Upadhyay Nagar Raipur (C.G.)
- H PLACE OF BIRTH** - Post-Office-(Dalha) Pondi  
Via- Akaltara,Distt- Janjgir, Champa (C.G.)
- I PHONE NO.** - Office – 0771-2262864
- J MOBILE NO** - 9753393639
- K. EMAIL ID.-** [anubha\\_09@yahoo.com](mailto:anubha_09@yahoo.com)
- L. VISIT ABROAD-**
1. Visited the University of Nanyang Technological University, **Singapore** for Oral Presentation on 16to17<sup>th</sup> June 2017.

## L1. ACADEMIC QUALIFICATION

Standard	Year of Passing	Institute	Subject
1. Higher Secondary	1986	M.P. Board, Bhopal	Maths, Physics, Chemistry
2. B.Sc.	1990	Guru Ghasi Das University, Bilaspur	Maths, Physics, Chemistry
3. M.Sc.	1992	Guru Ghasi Das University, Bilaspur	Physics (Specialization in Electronics)
4. M.Phil	1993	Guru Ghasi Das University, Bilaspur	Physics Dissertation (Cosmic Ray Variation Forbush Decreases) (5 <sup>th</sup> Position in Merit)
5. Ph.D	1998	Guru Ghasi Das University, Bilaspur	Physics (High Energy Cosmic Ray Modulation)
6. Post Doctoral Research	Oct. 1998 to 31.5.2001	Guru Ghasi Das University, Bilaspur	Phenomenological Theory of ML in Organic and Inorganic Solids
7. Post Doctoral Research	June, 2001 to 2004	Pt. Ravishankar Shukla University, Raipur (C.G.)	Machanoluminescence of soils

## M AWARD

Award Young Scientist for research paper, at the 1<sup>st</sup> Chhattisgarh Young Scientist Congress was conferred Chhattisgarh Council of Science and Technology Raipur (C.G.) by Pt. Ravishankar Shukla University, Raipur 2<sup>nd</sup> and 3<sup>rd</sup> Sept. (2002).

## N ADMINISTRATIVE EXPERIENCE :

1. Appointed an Observer for the conduction of examination **2005-2006** at center "Mahant Laxminarayan Das Mahavidyalay, Raipur (C.G.)
2. Appointed an Assistant Warden, Women Hostel, Pt. Ravishankar Shukla University, Raipur (C.G.) from 20.07.2005 to 14.12.2011 (6 Years).
3. Appointed an observer for the conduction of examination 2006-2007 at center Gokuldas Daga College, Raipur (C.G.).

## O PROJECT :

(i) COMPLETED A MINI RESEARCH PROJECT ENTITLED “Studies on the persistent luminescence behavior of rare earth doped strontium aluminosilicate phosphor (Sr-Al-Si-O Systems)” from 30 April (2014) to 30 April (2016) C.G.COST, RAIPUR (C.G.)

(ii) A MINI RESEARCH Project Submitted “Entitled luminescence behavior of rare earth doped MgO phosphor (Mg-O- System)” From 30 April (2016) by C.G.COST, RAIPUR (C.G.)

## P TEACHING EXPERIENCE

(i) *Govt. Engg. College, Raipur*

S.No.	College	UG	PG	Period		Year	
				From	To	U.G.	P.G.
1	Govt. Engg. College, Raipur		PG	1997	1999		2 Years
2	Govt. Engg. College, Raipur	UG		1997	1999	2 Years	
<i>Duration</i>						<i>2 Years</i>	<i>2 Years</i>
<i>Total Teaching Duration</i>							

(ii) *Bhoj University and Women Polytechnic College*

S.No.	College	UG	PG	Period		Year	
				From	To	U.G	P.G.
1	M.P. Regional Bhoj Open University, Raipur		PG	2000	2001		1 Year
2	Women Polytechnique College, Raipur	UG		2000	2001	1 Year	
<i>Duration</i>						<i>1 Year</i>	<i>1 Year</i>

(iii) *Pt. Ravishankar Shukla University*

S.No.	College	UG	PG	Period		Year	
				From	To	U.G.	P.G.
1	Ravishankar Shukla University, Raipur (SOS in Phys.)		PG	1997	1998		1 Year

2	Pt. Ravishankar Shukla University Raipur (SOS in Comp.)		PG	2001	2002		1 Year
3	Pt. Ravishankar Shukla University, Raipur (SOS in Comp.)	UG		2001	2002	1 Year	
4	Pt. Ravishankar Shukla University, Raipur (SOS in Phys.)		PG	2002	2003		7 Months
5	Pt. Ravishankar Shukla University, Raipur (SOS in Comp.)		PG	Apr.2003	Aug. 2003		5 Months
6	Pt. Ravishankar Shukla University, Raipur (SOS in Comp.)	UG		Aug. 2003	Aug. 2003	1 Months	
7	Pt. Ravishankar Shukla University, Raipur (SOS in Phys.)		PG	Aug. 2003	Mar. 2004		8 Months
8	Pt. Ravishankar Shukla University, Raipur (SOS in Comp.)		PG	Apr. 2004	Aug. 2004		5 Months.
9	Pt. Ravisanakar Shukla University, Raipur (SOS in	UG 2year s		Integrated Course (2007 2008) (2008..2009)			

	Phys.)						
10	Pt. Ravisanakar Shukla University, Raipur (SOS in Phys.)		PG	28 Aug. 2004, Regular	Till Date		5 Years (adhoc/cont) 14 Years 4 Months
<b>Duration</b>						<b>6 Year</b>	<b>19Years</b>

**(iv) M. Phil, Pt. Ravi Shankar Shukla University**

S.No.	College	M.Phil	Period		Year
1.	Pt. Ravi Shankar Shukla University		Aug 2007	May 2008	1 year
2.	Pt. Ravi Shankar Shukla University		Aug 2008	May 2009	1 year
3.	Pt. Ravi Shankar Shukla University		Aug 2009	May 2010	1 year
4.	Pt. RaviShankar Shukla University		Aug 2010	May2011	1 year
5.	Pt. Ravi Shankar Shukla University		Aug 2011	May2012	1 year
	Total Teaching Duration				5 Years

(v) **M. Tech, Pt. Ravi Shankar Shukla University**

S.No.	College	M Tech.	Period		Year
1.	Pt. Ravi Shankar Shukla University		July 2008	June 2009	1 year
2.	Pt. Ravishankar Shukla University		July 2009	June 2010	1 year
3	Pt. Ravishankar Shukla University		July 2010	June 2011	1 year
4.	Pt. Ravishankar Shukla University		July 2011	June 2012	1 year
5.	Pt. Ravishankar Shukla University		July 2012	June 2013	1 year
6.	Pt. Ravishankar Shukla University		July 2013	June 2014	1 year
	Total Teaching Duration				6 Years

**Ph. D. Awarded:**

1. **V Singh Sonwane – 07/10/2017**

**TOTAL NUMBER OF PAPERS BY DR. ANUBHA SINGH GOUR :77**

**PAPERS PUBLICATION IN INTERNATIONAL & NATIONAL JOURNALS:31**

**PAPER PRESENTATION and SCIENTIFIC PUBLICATION IN NATIONAL and INTERNATIONAL CONFERENCE, SEMINAR SYMPOSIA : 45**

**T LIST OF COMMUNICATED PAPERS: 5**

**H Index is 4**

1. **Clavage Mechanoluminescence Elemental and III -V Semiconductor (with B.P. Chandra, R.P. Patel, V.K. Chandra, R.K. Gupta) J.of luminescence Netherlands America Vol. 104(2003)34-35**

**Impact Factor : 1.87**

**ISSN No0022-2313.**

- 2. Theoretical Approach to the Lyoluminescence of Organic Materials. (with B.P. Chandra, V.K. Chandra, D.S. Baghel and P.K. Khare) In.J. of Pure and Applied Physics, New Delhi, vol 41. (2003)pp 884-893.  
Impact Factor : 0.51  
ISSN No.0019 5596**
- 3. Dislocation unpinning model of Accoustic Emission From Alkali Halides (with B.P. Chandra, V.K. Chandra and Y. Patil)J. of Phy. Banglor. Vol.6(2004)pp1282-1292.  
Impact Factor ; 0.56  
ISSN No.0973-7111**
- 4. Theoretical Approach to the Tunneling Mechanoluminescence produced during cleavage of II-VI semiconductor (with Vibha Choudhary, V.K. Chandra, R.P. Gupta and B.P. Chandra) Indian J. of Engineering and material sciences. (NISCAIR) New Delhi Vol.II,October (2004).P.P. 421-428  
Impact Factor : 0.21  
ISSN No.0971-4588**
- 5. Luminescence in solids (with B.P. Chandra) J. of physics Education vol. 24, No.1 April-June (2007) P.5-16 Pune  
Impact Factor :  
ISSN No.0970-5953**
- 6. Photoplastic After Effect In II-VI Semi Conductor (Anubha Singh Gour and B.P.Chandra Int. J. of Materials Science Egypt.Volume 4, Number 6 (2009) ,pp 813-822  
Impact Factor :1.85 ISSN No.0973-4589**
- 7. A new theory of the photoplastic effect in coloured alkali halide crystals ( S. Tiwari a, A. S. Gour, V. K.Jogia, B. P. Chandrab) J. of Optoelectronics and Advanced Materials Vol. 12, No. 9, September (2010), p. 1840 - 1851  
Impact factor-0.58 ISC Journal**
- 8. Studies on Mechanoluminescence of Irradiated NaBr and KBr Crystals. (Anubha Singh Gour and Chhaya Sidar) J. Of search and Research V ol III No 1 pp 83-86 April (2011)  
ISSN No.**
- 9. Effect of Thermoluminescence of Y - Irradiated KCl, NaCl, NaBr and KBr Crystals (Anubha Singh Gour and B. P. Chandra) Int. J. of Bio-Nano Fronties VoI No. pp Dec.(2011)  
Impact Factor : 2 ISSN No.0971-0678**

- 10. Effect of Sr Doping on the Mechanoluminescence of  $\gamma$  Irradiated NaCl AND KCl Crystals.** (Anubha Singh Gour and B. P. Chandra) *Int. J. of Basic and Applied Researches* Vol No. pp 9 to 11 . (2012)  
ISSN No.2249-3352
- 11. Ultrasonic pulse induced mechanoluminescence of europium doped strontium aluminate micro-crystals** ( V.D. Sonwane<sup>1</sup>, A.S. Gaur<sup>2</sup>, B. K. Haldar<sup>1</sup>, S. Pandey<sup>1</sup> and B.P. Recent *Research in Science and Technology* Oct (2012), 4(8): 106-108  
ISSN No.2076-5061
- 12. Infrared Nd:YAG Laser-Induced Visible Mechanoluminescence From Tungsten** (V.D. Sonwane, A.S. Gour and B.P. Chandra), *International Journal of Luminescence and its Applications*, 4Apr (2014)56-59 ISSN 2277-6362.  
**Impact Factor : 3.438**
- 13. Theoretical Study of the Pyroelectric Luminescence of Crystals** (V.D. Sonwane, A.S. Gour and B.P. Chandra), *International Journal of Luminescence and its Applications*, 4 Apr (2014)59-61,  
ISSN 2277-6362. **Impact Factor : 3.438**
- 14. Infrared Nd:YAG Laser-Induced Visible Mechanoluminescence From Fine Grained Metals** (V.D. Sonwane, A.S. Gour and B.P. Chandra), *Journal of Ravishankar University Part-B(Science)*, 27 Apr (2014)102-107,  
ISSN 0970-5910.
- 15. Ultrasonic Wave-Induced Elastico-Mechanoluminescence of CaZnOS:Mn<sup>2+</sup>/ Epoxy Resin Composite** (V.D. Sonwane, A.S. Gour and B.P. Chandra), *Int. J. of Science and Research (IJSR)*, May (2015) pp 519-520  
**Impact Factor : 4.438**  
ISSN 2319-7064.
- 16. Effect of Ultrasonic Wave-Induced Oscillatory Mechanical Stress on Plastic Mechanoluminescence of Colored Alkali Halide Crystals** (V. D. Sonwane, A. S. Gour, P. Jha and B. P. Chandra), *Int. J. of Luminescence and its Applications*, Dec (2015) pages 445-447.  
ISSN NO: 2277 – 6362  
**Impact Factor : 3.438**
- 17. Infrared Laser-Induced Visible Fracto Mechanoluminescence from Organic Crystals** (V. D. Sonwane, A. S. Gour, P. Jha and B. P. Chandra), *Int. J. of Luminescence and its Applications.* ), Dec (2015) pages 448-450.  
ISSN NO: 2277 – 6362  
**Impact Factor : 3.438**
- 18. Characterization of MgO Produced by Combustion Synthesis Method Doped with Dy<sup>3+</sup>** G. Sahu, A. S. Gour, and B. P. Chandra, *Int. j. of research in Eng. And*



**19. Structural and thermoluminescence properties of  $\text{Sr}_2\text{Al}_2\text{SiO}_7$  Phosphors using solid state reaction method** (A. Jadhav, A. S. Gour, And B. P. Chandra), Int. science journal Volume 2 Special Issue1 Oct (2015) pp 79-81

ISSN: 2348 – 604X (p); 2348 – 6058 (e)

**20. Stimulation Of Visible Fracto Mechanoluminescence In Crystalalline Sugar By Infrared Laser** (V. D. Sonwane, Anubha S. Gour and B. P. Chandra), Int. science journals Volume2 Special Issue1 Oct (2015)pp 33-36

ISSN: 2348 – 604X (p); 2348 – 6058 (e)

**21. MgO Produced by Combustion Synthesis Method Doped with  $\text{Dy}^{3+}$**  (G. Sahu, A. S. Gour, and B. P. Chandra) Int. science journals Volume 2 Special Issue1 Oct (2015)

ISSN: 2348 – 604X (p); 2348 – 6058 (e)

**22. The Study of Present Solar Cycle 24 Future Aspects** (Shailraj Narang<sup>1</sup>, Meera Gupta, Anubha Singh Gaur) Research J. of Physical Science Vol 4(3) PP 5To 10 ISCA-RJPS April(2016)

E-ISSN- 2231-606X

**23. Laser Power dependence of mechanoluminescence in metals** ( V.D. Sonwane, Anubha Singh Gour & Piyush Jha)J.of Bio.and Chem. Luminescence. Dec.(2016),

ISSN- 1522-7243

Impact Factor : 1.6

**24. Laser shock wave-induced visible mechanoluminescence from semi-transparent organic crystals,**( VD Sonwane, AS Gour, P Jha), J.of Bio. and Chem. Luminescence. April (2016)

ISSN- 1522-7243

Impact Factor :1.6

**25 Synthesis photoluminescence of MgO Nano-phosphors influenced by  $\text{Dy}^{3+}$  ion concentration”**( G. Sahu, A. S. Gour) ), Int. J. of Luminescence and its Applications dec( 2017) pages.417 422

ISSN NO: 2277 – 6362

Impact Factor : 3.438

**26 Thermoluminescence and Optical Properties of  $\text{Dy}^{3+}$  Doped MgO Nanoparticles, Prepared by Solution Combustion Synthesis Method,**( G Sahu, AS Gour, RK Chandrakar), J. of Pure Applied and Industrial Physics 7 (4), 115-127 April (2017)

ISSN-0976- 5727

**27. Thermoluminescence properties of Eu-doped and Eu/Dy-codoped Sr<sub>2</sub>Al<sub>2</sub>SiO<sub>7</sub> phosphors, ( A Jadhaw, VD Sonwane, AS Gour, P Jha) Wiley Publication J. of Bio.and Chem. Luminescence. March (2017)pp42to 46  
ISSN- 1522-7243  
Impact Factor : 1.6**

**28. Studies on photoluminescence of MgO Nano-phosphors influenced by Dy<sup>3+</sup> ion ( G. Sahu, A. S. Gour) J.of Ravishankar University (Science), 30Jan (2018 pp 130to137  
ISSN- 0970-5910.**

**29 Cost Effective Synthesis to Promote Effective Photoluminescence Properties of Rare Earth Doped MgO Nano-phosphors ”( G. Sahu, A. S. Gour,R.Chandrakar, ), Int. J.of Optik Elsevier 164 Apr ( 2018) Int. J.pp 711 to720  
ISSN NO: 0030-4026  
Impact Factor : .7**

**30. Correlative Study of different Types of Solar Radio Bursts between Sunspot Numbers and Solar Flare Index for the Solar Cycle 22 to 24. (Shailraj Narang<sup>1</sup>, Meera Gupta, Anubha Singh Gaur) Int. J. Management, Tech. and Engineering. Vol. IX, March 2019, P P 1193 to 1206.  
ISSN NO: 2277 – 6362  
Impact Factor :**

**(Dr. (Mrs.) Anubha Singh Gour)**

**PAPER PRESENTATION and SCIENTIFIC PUBLICATION IN NATIONAL and INTERNATIONAL CONFERENCE, SEMINAR SYMPOSIA**

- 1. Abstract of The study of Forbush Decreases Event of April 18-10, 1990 (with Arun P.Singh) Research Seminar on Space Physics Govt. Model Science College Rewa (M.P.) Autonomous 23-24 December,(1993).**
- 2. Abstract of Impact of Major Disturbance on Heliospheric Structure on Galactic Cosmic Ray Intensity During June 1991. (with Arun P. Singh) Research Seminar on Space Physics Govt. Model Science College Rewa (M.P.) Autonomous 23-24 December, ( 1993).**
- 3. Abstract of Flares in Relation to Solar Active Regions (with Arun P. Singh) Research Seminar on Space Physics Govt. Model Science College Rewa (M.P.) Autonomous 23-24 December, (1993).**
- 4. Abstract of Statistical Study of Solar Optical H  $\alpha$  Flares (with Arun P. Singh) Research Seminar on Space Physics Govt. Model Science College Rewa (M.P.) Autonomous 23-24 December, (1993).**
- 5. Abstract of Cosmic Ray Modulation Events During March-June 1991. 10th M.P. Young, Scientist Congress Madhya Pradesh Council of Science and Technology Bhopal, Guru Ghasidas University, Bilaspur Feb. 20-March 2, (1995).**
- 6. Abstract of Anomalous Cosmic Ray Decreases, Observed During March-June 1991 (with A.P. Singh, A.P. Mishra, R.L. Singh) 9th National Space Science Symposium Osmania University, Hyderabad. Feb. 6 to 14, (1996) Section C-2, Paper No. C-R06.**
- 7. Cold Emission of Light : Luminescence. National Seminar on the Emerging Challenger Before Indian Women 11-13 December, (2001).**
- 8. Mechanoluminescence induced by laser in II-VI semiconductors. 1st Chhattisgarh Young Scientist Congress, 2002. Pt. Ravishankar Shukla University, Raipur on 2-3 Sept. (2002)..**

9. Proceeding of National Conference on LSI, Faractoluminescence in Vto VI Semiconductors (with M.K. Chau, R.P. Patel, V.K. Chandra, B.P. Chandra) LSI, Feb. 12 to 14, (2003). New Delhi
10. Proceeding of International conference on luminescence to be held at BARC. Mumbai Use of Mechanoluminescence in crack growth sensing (with V.K. Chandra and B.P. Chandra) on Feb.9-12, (2004).
11. Proceeding of Int. conference on luminescence and its applications “Dependence of the luminescence Diavalent Impurity Doped Sodium Chloride on Temperature “(with Vibha Choudhary, B. Chourasia and B.P. Chandra) BARC. Mumbai on Feb. 9-12, (2004).
12. Proceeding of Nat. coference on luminesces and its application “Luminescence stimulated by LASER” (M.K. Sahu and B.P.Chandra) Feb. 2-4, (2005) (Bangalore).
13. Proceeding of Nat. coference on luminesces and its application” Thermal and Energy of Convrsion characteristic of semiconductor nanoparticles” (with M.K. Sahu, V.K. Chandra and B.P. Chandra). Feb. 2-4, (2005) (Banglore)
14. Proceeding of Nat. coference on luminesces and its application” Photo stimulated luminescence of BaKBr:Eu<sup>+2</sup> phosphors.” (with Vibha Choudhary, Paridhi Tandan and B.P. Chandra) Feb. 2-4, (2005) (Banglore)
15. Proceeding of Nat. coference on luminesces and its application” Effect of Post-Irradiation deformation on the Thermo-luminescence of Ba<sup>+2</sup>S<sup>+2</sup> and Ca-2 doped now crystals”. (Vibha Choudhary, Basant Kumar) Feb. 2-4, (2005) (Banglore)
16. Abstract and poster presentation of National Symposium on Nano science and Nanotechnology on Physics education Spectral, Thermal and Efficiency characteristics of the photoluminescence of semiconductor nanoparticles (B.P. Chandra & P.K. Khare & R.S.Chandok). Nov. 2-4 (2006) Jabalpur.
17. Abstract and poster Presentation Characteristics of Photoplastic after effect in Alkali halide crystals (with B.P. Chandra). National conference on “Current Trends In Physics” at Bhilai Mahila Mahavidyalays Bhilai Nagar (C.G.)490009 25-26 Feb. (2007)

**18. Proceeding of Nat. Conference on "Spectral Stokes shift and spectral broadening Characteristics of Semiconductor Nanoparticles" (with B.P. Chandra) Physics of Nanostructured functional materials at Bhilai Institute of Technology (BIT), Durg on 16 to 17 March, (2007)**

**19. Proceeding of Nat. symposium "Effect of Particle size on the luminescence characteristics of semiconductor Nanocrystals" (with B.P. Chandra). "Recent trends on Nanostructured materials and Nanotechnology" at Rungta College of Engineering and Technology, Bhilai 490024 (C.G.) 23-24 March (2007)**

**20. Proceeding of Nat. conference on (LSI) Mechanoluminescence – A New Tool to Determine Parameters of Dislocations in Coloured Alkali – Halide Crystals. (with B.P. Chandra Bharathir . University Coimbatore Jan. 18-20 (2007)**

**21. Abstract and poster Presentation Nat. conference on "Photoplastic effect in coloured Alkali halide Crystals" (with B.P. Chandra Horizon of Electrolytic, Electronic and physics on Shankara Charya college of Engineering And Technology Oct. 26-27 (2007) P-25.**

**22. Proceeding of Nat. conference on Effect of Ba-doping on the Mechanoluminescence of  $\gamma$ -irradiated KCl crystals (Anubha Singh Gour and Somlata Sahu). Advance in physics and its application. Department of physics Bhilai Institute of Technology (BITCON 2008) 7-8 Nov (2008) Durg 491001**

**23. Abstract and poster Presentation of Int. conference on "Studies on Photoplastic Memory effect in II- VI Semiconductors." (with B.P. Chandra) International Academy of physical science CONIAPS-X Guru Ghasi Das university Bilaspur (C.G.) On 14-15 Jan (2008) P-119**

**24. Proceeding of Nat. conference on "Temporal, Thermal and activator concentration Characteristics of semiconductor Nano crystals" (Anubha Singh Gour and B.P. Chandra Nanoscience and Nanotechnology (NCONSANT-2009) at Rungta College of Engineering and Technology Bhilai on Nov. 14 (2009).**

**25. Abstract and poster Presentation Nat. conference on "Studies on Mechanoluminescence of  $\gamma$ -Irradiated pure and Ba, Ca and Sr doped KBr Crystals" (Anubha Singh Gour, A. Meshram and Anil Sahu) High Tech Materials synthesis characterization and Applications at (DIMAT) Raipur on Dec. 14-16 (2009).**

- 26. Proceeding of Nat.Conference on NanoScience and Nano Technology**  
“Charactristics Of Semiconductor Nanocrystals”(Anubha Singh Gour, S. J. Dhoble and B. P. Chandra) at Science College Nagpur on Feb. 21-22 (2011) pp 188 – 191.
- 27. Proceeding of Nat. Conference on Nanoscience and Nanotechnology studies on the thermoluminescence of irradiated Sr-Doped NaBr and KBr Crystals** (Anubha Singh Gour and Chhaya Sidar) at Science College Nagpur on Feb. 21-22 (2011) pp 222-224.
- 28. Abstract and poster Presentation of Nati. conference on “Thermoluminescenes Studies on irradiated pure and Ba and Sr Doped KCl Crystals”** (Anubha Singh Gour, S.J. Dhoble and B. P. Chandra). Luminescence and its applications (NCLA2011) Pt. Ravishankar Shukla University Raipur (C. G.)Feb. 7-9 (2011)
- 29. Proceeding of National Conference on RTIPS Stdies on the Thermoluminescence of  $\gamma$  irradiated pure , Ba and Sr doped KCl Crystals.**pp no 40to 42. GOVT Autonomous College Durg on11-12 Oct (2011) Durg(C.G.)
- 30. Abstract and postar presentation of Nati. conference on “Effect of Mechanoluminescence of Ba doped. KCl, NaCl, NaBr and Kbr crystals.”** (Anubha Singh Gour ) Interaction between Traditional and Modern Technology. At Nimora 24 -25 March (2012) Raipur (C.G.)
- 31. Abstract and postar presentation of National Conference on “Effect of Sr-Doping On The Mechanoluminescence of  $\gamma$  Irradiated NaCl and KCl Crystals”** (Anubha Singh Gour and B. P. Chandra) at the national conference on “Novel Materials and their Applications (NCNMA-2012)”Sponsored by CGCOST at Devendra Nagar Girls college Raipur (C.G.) oct 16 to 17(2012).
- 32. Abstract and postar presentation of Visible Mechanoluminescence from Copper doped to Infrared Laser Induced Thermo-mechanical Stress,** (V.D. Sonwane, A.S. Gour and B.P. Chandra) at the national conference on “Recent Trends in Photonics (NCRT-2014)” School of Studies in Electronics and Photonics, Pt. Ravishankar Shukla University, Raipur(C.G.) during 12 to 14 March (2014).
- 33. Abstract and postar presentation of National Conference on Structural and luminescence properties of  $Sr_2Al_2SiO_7$  Phosphors using solid state method, “Recent Trends in Materials Science ”Sponsored by UGC, Dr.Radhabai Govt. Naveen Kanya Mahavidyalaya, Raipur(C.G.)on 6Aug (2015).**

- 34. Abstract and postar presentation of National Conference on Characterizations and PL properties of MgO Produced by combustion synthesis method doped with Dy<sup>3+</sup> “Emerging Trends in Physics (ETP-2015)” Sponsored by CCOST ,Raipur (C.G.)S. G. G. Govt. PG College Kurud (c.g.) On 7 Sep (2015).**
- 35. Abstract and postar presentation of National Conference on Structural and thermoluminescence properties of Sr<sub>2</sub>Al<sub>2</sub>SiO<sub>7</sub> Phosphors using solid state reaction method “Recent Advance in Physics (NCRAP-2015)” S. G. G. Govt. PG College Kurud(c.g.) during 28-29oct (2015).**
- 36. Proceeding of Int.Symposium on Ultrasonic” . Ultrasonic Wave-Induced Elastico-Mechanoluminescence of CaZnOS:Mn<sup>2+</sup>/ Epoxy Resin Composite (V.D. Sonwane, A.S. Gour and B.P. Chandra)’RTMN University Nagpur during 22to 24 jan (2015)**
- 37. Abstract and postar presentation National Conference on “the study of present solar cycle 24 A future aspects” Physics of luminescence and emerging trends” Bhilai institute of technology, Durg (c.g.) on jan.29 and 30 (2016).**
- 38 Proceeding of National Conference on Thermoluminescence Synthesis of - Sr<sub>2</sub>Al<sub>2</sub>SiO<sub>7</sub>:Ey phosphor Hyderabad on 9 to11 Jan ( 2017**
- 39. Abstract and postar presentation National Conference on “Synthesis Characterization and photoluminescence of MgO Nano-phosphors influenced by Dy<sup>3+</sup> ion concentration” held at SoS in Electronics and Photonics and SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University Raipur during March 28to30, (2017).**
- 40 Proceeding of Int. Seminar on Luminescence and Materials (ISLM 2017) “Thermoluminescence properties of Sr<sub>2</sub>Al<sub>2</sub>SiO<sub>7</sub> :EyDy phosphor [OP2]” held at Nanyang Technological University, Singapore during 16to17 June (2017).**
- 41 Abstract and postar presentation National Conference on”Study of cosmic ray intensity variation with solar active parameters during the even odd solar cycles” , meera gupta, Sailraj Narang, Anubha Singh, on Department of Applied Physics, Bhilai Institute of Technology Durg(C.G) on 28<sup>th</sup> March (2017).**
- 42. Proceeding of National Conference on Photoluminescence And Thermoluminescence Synthesis of MgO Nano-phosphors influenced by Dy<sup>3+</sup> ion concentration” ( G. Sahu, A. S. Gour) ),Feb ( 2018)**
- 43. Abstract and postar presentation of Bhilai Institute of Technology, Durg Co Relating between Sun Sunspot Nos and Solar Radio Burst for the Solar Cycle 22 to 24 Feb , (meera gupta, Sailraj Narang, Anubha Singh) (2018)**
- 44. Chair Person National Seminar on GENDER NORMS & GENDER EQUALITY (Centre for Women’s Studies) Pt. Ravishankar Shukla University Raipur On Date 6 to 8 Feb., (2018)**

**45 Proceeding of Int. Seminar on Luminescence and Materials (ISLM 2019) “Thermoluminescence of Dy<sup>3+</sup> doped MgO phosphor ”( G. Sahu, A. S. Gour and K.V.R. Murty) SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University Raipur during March 28to30, (2019).**

**46 Proceeding of Int. Seminar on Luminescence and Materials (ISLM 2019) Ball Impact Induced Mechanoluminescence of Sr<sub>2</sub> Al<sub>2</sub> SiO<sub>7</sub> : Eu Dy Phosphor Composite Film (A. Jadhaw, Anubha S Gour, Piyush Jha ) SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University Raipur during March 28to30, (2019).**

**47. Oral Paper presentation on National Conference on Emerging Materials and Nanotechnology (NCEMN) “Thermoluminescence properties of Dy<sup>3+</sup> Doped MgO Nanoparticles Prepared by Combustion Synthesis method. ( G. Sahu, A. S. Gour, Avaneendra S Gour, Aryaman Singh ) On National Institute of Technology Raipur C.G.**

**48. Invited Lecture National Seminar held at Mahant Laxminarayan Das College Raipur as Resource Person “Education Yesterday, Today and Tomorrow” ( Anubha S Gour, Avaneendra S Gour, Aryaman Singh )22 Sep 2019 Raipur C.G.**

**49. Abstract and poster presentation of National Conference on Advanced Materials & Environmental Sciences. (Synthesis and Photoluminescence study of Ce<sup>3+</sup> doped MgO Phosphor ) at Department of Physics, Kalinga University, Naya, Raipur C.G. ( G. Sahu, A. S. Gour and Avaneendra S Gour, Aryaman Singh )**



## T LIST OF COMMUNICATED PAPERS:

- 1 Theory of photoplastic Effect in coloured Alkali Halide Crystals Based on the Interaction between moving dislocation and Photo-obstacles. (communicated) Pramana Journal of Physics Indian Academy of Sciences, Bangalore
- 2 Photoplastic memory effect in IItoVI semiconductors (communicated) Physica status solidi (b), Germany.
- 3 Theory of photoplastic Effect in coloured Alkali Halide Crystals Based on the Interaction between moving dislocation and Photo-obstacles. (communicated) Pramana Journal of Physics Indian Academy of Sciences, Bangalore
- 4 Unified approach to the Mechano luminescence of organic and inorganic solides (communicated) Journal of luminescence America.
5. Photoplastic effect and photoplastic after effect A Review- Advances in Physics London.

## NATIONAL and INTERNATIONAL CONFERENCE, SEMINAR SYMPOSIA PRESENTED

1. **Short term Courses Attended- 22nd Sept.- 6th Oct (1997) short term courses on the topic ‘Indian Society for Technical Education’ Attended at Govt. Engineering College and Conducted by Raipur Chapter at Government Engineering College Raipur (M.P.)**
2. **Presented National Seminar on the Emerging Challenges Before Indian Women. 11-1- 3 December, Women Empowerment Year, (2001).**
3. **Award Young Scientist for research paper, at the 1<sup>st</sup> Chhattisgarh Young Scientist Congress was conferred Chhattisgarh Council of Science and Technology Raipur (C.G.) by Pt. Ravishankar Shukla University, Raipur 2<sup>nd</sup> and 3<sup>rd</sup> Sept. (2002).**
4. **Presented UGC National Seminar on Science, Technology & water ( Problem and Solutions for Chhattisgarh) organised by S.O.S. in Life**

Science and Research Scholar Association, Pt. Ravishankar Shukla University, Raipur (C.G.) on 29<sup>th</sup>–30<sup>th</sup> April, (2002).

5. Presented National Seminar ( Luminescence and its Applications) organized by Luminescence Society of Indian Physical laboratory, New Delhi, Delhi University, 12-14<sup>th</sup> Feb., (2003) NPL, New Delhi, India.
6. Presented International Conference on ( Luminescence and its Applications) (ICLA-2004), February 9-12, (2004) Bhabha Atomic Research Centre Trambay, Mumbai-400085.
7. Attended workshop on “ Western Regional Instrument Centre Mumbai at Pt. Ravishankar Shukla University, Raipur 4 to 9 October (2004). On maintenance of Electronics Instruments.
8. Attended refresher course in Environmental Science from 03 to 23 March (2005) at Pt. Ravishankar Shukla University, Raipur (C.G.)
9. Presented and Participated in the conference on “Development of Chhattisgarh – Vision 2010” by Forum of Scientists and Technologist held on April 02, (2006) at Raipur (C.G.).
10. Attended a conference in “Modern Trands in Mathematics for Science and Technology Advancements” held on Sept. 24, (2006) at Raipur.
11. Presented national Symposium on Impact of Nanoscience and Nanotechnology on Physics education 2-4 – (2006) Jabalpur.
12. Presented and Participated in National Conference on Techno vision 2007 held at Shri Shandaracharya College of Engineering and Techonology, Bhilai on 26 to27 (2007)
13. Attended one day workshop on “Acquaitance Program of Research using Presented Accelerator Facilities at IUAC” Pt.Ravishankar Shukla University, Raipur on Jul.20, (2007).
14. Presented International conference on International Academy of Physical Science (CONIAPS-X) Guru Ghasi Das University, Bilaspur C.G. on 14-15 Jan (2008).
15. Attended Orintation program on “New paradigm change in Higher Education in India” at Academic staff college on Pt. Ravishankar Shukla University, Raipur (C.G.) on 21 Jan. 16 Feb. (2008).
16. Attended refresher course in Psychology (Multidisiplinary) at Academic staff college Pt. Ravishankar Shukla University, Raipur on 1.02 (2009)-03.03(2009).

17. **Presented National conference on high tech materials, synthesis, characterization and Applications at (DIMAT), Raipur on Dec. 14-16 (2009).**
18. **Presented National conference on Managing Interpersonal Communication in Global World organized at SOS in Psychology at Pt. Ravi Shankar Shukla University Raipur (C.G.)on 22-24 Oct (2010).**
19. **Presented International conference on Vedic Science & Its Applications Organized by chhattisgarh vigyan bharti, akhil bhartita parishad,Puri at Pt. Ravi Shankar Shukla University Raipur (C.G.)on 20-21 Nov (2010).**
20. **Presented National conference on Luminescence and its Applications NCLA-2011 At Pt. Ravi Shankar Shukla University Raipur (C.G.)on 7-9 Feb. (2011).**
21. **Presented National Conference on (NCSCAM-2011) Department of Physics Janta Mahavidyalaya Chandrapur Nagpur on 6 Oct (2011)**
22. **Attended Workshop on Teacher Employment Under NMEICT ..... on 11 to 22 Dec. (2011) Ravvishankar Shukla University Raipur (C.G.)**
23. **Presented National Conference on Recent Trends in Physics of Solids on oct11 to 12 (2011) at Govt. V.Y. T. PG. Autonomous College, Durg(CG).**
24. **Presented National Conference on Effect of Mechanoluminescence .... KCl,NaCl, NaBr and Kbr crystals. (Anubha Singh Gour ) National Conferense on Interaction between Traditional and Modern Technology. At Nimora Raipur 24-25 Mar (2012) (C.G.).**
25. **Presented National Conference on Novel Materials and their Applications Sponsored by CGCOST Effect of Sr-Doping On The Mechanoluminescence of  $\gamma$  Irradiated NaCl and KCl Crystals “ oct 16 to 17(2012) devendra nagar Girls college Raipur (C.G.)**
26. **Presented National Conference on “Role of Women in National Development in the new Millennium” Sponsored by CGCOST (Raipur) atPt. Ravishankar Shukla University, Raipur(C.G.) Jan10 to12(2013).**
27. **Presented National Conference on “Women as leaders: Roles, Issues and Concerns” Feb.5 to 7, (2014) UGC Sponsored at Pt. Ravishankar Shukla University, Raipur(C.G.)**
28. **Presented National Conference Visible Mechanoluminescence of Visible Mechanoluminescence from Copper doped to Infrared Laser Induced Thermo-mechanical Stress, (V.D. Sonwane, A.S. Gour and B.P. Chandra) at the national conference on “Recent Trends in Photonics (NCRT-2014)” School of Studies in**

Electronics and Photonics, Pt. Ravishankar Shukla University, Raipur(C.G.) during **12 to 14 March (2014)**.

**29 Presented National Workshop on “Yoga For Women” Sponsored by UGC, School of Studies in Electronics and Photonics, Pt. Ravishankar Shukla University, Raipur(C.G.) during m 3 to 9 Aug(2014).**

**30 Presented National Workshop on “Operation and Maintenance of Laboratory Equipments” Organized by SOS in Electronics & Photonics ,Pt. Ravishankar Shukla University, Raipur(C.G.) & Western Regional Instrumentation Center,Mubai. During on 19 to 23 Jan 2015.**

**31. Presented National Seminar on “Recent Trends in Materials Science”Sponsored by UGC, Dr.Radhabai Govt. Naveen Kanya Mahavidyalaya, Raipur(C.G.)on 6Aug (2015).**

**32. Presented National Seminar on “Emerging Trends in Physics (ETP-2015)” Sponsored by CCOST ,Raipur (C.G.)S. G. G. Govt. PG College Kurud (c.g.) on 7 Sep 2015.**

**33. Presented UGC Sponsored National Conference on “Recent Advance in Physics (NCRAP-2015)” S. G. G. Govt. PG College Kurud(c.g.) during 28to29oct (2015).**

**34 Presented National Conference on “the study of present solar cycle 24 A future aspects” Physics of luminescence and emerging trends” Bhilai institute of technology, Durg (c.g.) on jan.29 to 30 (2016).**

**35 Attended National Workshop on “Entrepreneurship in Renewable Energy Technologies for Chhattisgarh Tribal'19to24 th sep(2016)atPt.Ravishankar Shukla University Raipur (C.G.)**

**36. Presented National Conference on “Synthesis Characterization and photoluminescence of MgO Nano-phosphors influenced by Dy<sup>3+</sup> ion concentration” held at SoS in Electronics and Photonics and SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University Raipur during March 28-30, (2017).**

**37. Presented Int. Seminar on Luminescence and Materials (ISLM 2017) “Thermoluminescence properties of Sr<sub>2</sub>Al<sub>2</sub>SiO<sub>7</sub>:EyDy phosphor [OP2]” held at Nanyang Technological University, Singapore during 16to17 June 2017.**

**38. Presented on National Conference on”Study of cosmic ray intensity variation with solar active parameters during the even odd solar cycles” , meera gupta, Sailraj Narang, Anubha Singh, on Department of Applied Physics, Bhilai Institute of Technology Durg(C.G) on 28<sup>th</sup> March 2017.**

- 39. Presented on National Conference on "Study of cosmic ray intensity" , meera gupta, Sailraj Narang, Anubha Singh, on Department of Applied Physics, Bhilai Institute of Technology Durg(C.G) on 2018.**
- 40. Chair Person National Seminar on GENDER NORMS & GENDER EQUALITY (Centre for Women's Studies) Pt. Ravishankar Shukla University Raipur On Date 6 to 8 Feb., (2018)**
- 41. Presented Proceeding of National Conference on Photoluminescence And Thermoluminescence Synthesis of MgO Nano-phosphors influenced by Dy<sup>3+</sup> ion concentration" ( G. Sahu, A. S. Gour) ,Feb ( 2018)**
- 42. Presented Abstract and postar presentation of Bhilai Institute of Technology, Durg Co Relating between Sun Sunspot Nos and Solar Radio Burst for the Solar Cycle 22 to 24 Feb , (meera gupta, Sailraj Narang, Anubha Singh) (2018)**
- 43. Presented Proceeding of Int. Seminar on Luminescence and Materials (ISLM 2019) "Thermoluminescence of Dy<sup>3+</sup> doped Mgo phosphor"( G. Sahu, A. S. Gour and K.V.R. Murty) SoS in Physics & Astrophysics, Pt. Ravishankar Shukla University Raipur during March 28to30, (2019).**
- 44. Presented Oral Paper presentation on National Conference on Emerging Materials and Nanotechnology (NCEMN) "Thermoluminescence properties of Dy<sup>3+</sup> Doped MgO Nanoparticles Prepared by Combustion Synthesis method. ( G. Sahu, A. S. Gour, Avaneendra S Gour, Aryaman Singh ) On National Institute of Technology Raipur C.G.**
- 45. Presented Invited Lecture National Seminar held at Mahant Laxminarayan Das College Raipur as Resource Person "Education Yesterday, Today and Tomarrow" ( Anubha S Gour, Avaneendra S Gour, Aryaman Singh )22 Sep 2019 Raipur C.G.**
- 46. Presented Abstract and postar presentation of National Conference on Advanced Materials & Environmental Sciences. (Synthesis and Photoluminescence study of Ce<sup>3+</sup> doped MgO Phasphar ) at Department of Physics, Kalinga University, Naya, Raipur C.G. ( G. Sahu, A. S. Gour and Avaneendra S Gour, Aryaman Singh )**

## NO. OF M. Phil STUDENTS AWARDED

S. No.	NAME	YEAR	TITLE
1.	Miss Somlata	2008	Studies on the ML of Y-Irradiated Pure and Ba-Doped KCl And KBr Crystals
2.	Mr. Anil Sahu	2009	Studies on the ML of Y-Irradiated Pure and Ca, Sr, Ba-Doped KBr Crystals
3.	Miss Alka Mesharam	2009	Studies on the ML of Y-Irradiated Pure and Ba-Doped KCl And KBr Crystals
4.	Miss Chaya Sidar	2010	Studies on the ML and TL of Y-Irradiated Pure and Sr-Doped NaBr and KBr crystals.
5.	Miss Kiran kumari	2011	Studies on the ML and TL of Y-Irradiated Pure NaCl, KCl, KBr and NaBr crystals.
6	Richa Sharma	2012	Studies on the ML of Y-Irradiated Pure and Ba-Doped KCl And KBr Crystals

## NO. OF Ph. D. STUDENTS REGISTER

S. No.	NAME	YEAR	TITLE
2.	Miss Gitanjali Sahu	27.07.2011	Synthesis and Characterization of rare earth Doped Mangesium Oxide.
2	Shailraj	5.07.2013	Solar Modulation of Cosmic Rays During the Even-Odd Solar Cycles.
3.	Jayanand Maurya	28.12.2017	Photometric and Variability in the Galactic Open Clusters
4	Arpan Ghosh	28.12.2017	Multi Wavelength Spectro – Photometric Monitoring of Episodically Accreting Young Low-Mass Stars

## V MEMBERSHIP OF PROFESSIONAL BODIES, SOCITIES :

- (i) Life member of Luminescence Society of India (LSI).
- (ii) Life member of Indian Science Congress Association (ISCA)

- (iii) Member of Forum of Scientist and Technologist (FOST).
- (v) Member of Science India (S.I.)

**W Membership of Different Committees in Pt.R.S.S.U., Raipur.**

- (i) Member of women study center, Pt.R.S.S.U., Raipur.
- (ii) Member of R.S.U. Teacher's Association.
- (iii) Member of University Library, Pt.R.S.S.U., Raipur.
- (iv) Member of Discipline Committee of women hostel, Pt. Ravishankar Shukla University, Raipur.
- (v) Member of University Antiragging Committee Pt.R.S.S.U. Raipur (C.G.)

**RESEARCH INTERESTS**

- (i) Thermoluminescence
- (ii) Photoluminescence

**Y REFRESHER/ORIENTATION COURSE ATTENDED**

1. Attended refresher course in Environmental Science from 03 to 23 March at Pt. Ravishankar Shukla university, Raipur (C.G.) (2005 )

2. Attended orientation Program on "New Paradigm change in Higher Education in India" at Academic staff college on Pt. Ravishankar Shukla university, Raipur (C.G.) on 21Jan.-16Feb(2008)

3 .Attended refresher course in Psychology(Multidisciplinary) at acadmic staff College on Pt. Ravishankar Shukla university, Raipur (C.G.) on 1/02/2009 to 03/03/2009 (2009)

**WORKSHOP ATTENDED**

1. Attended workshop on " Western Regional Instrument Centre Mumbai at Pt. Ravishankar Shukla University, Raipur 4 to 9 October (2004). On maintenance of Electronics Instruments.

2. Attended one day workshop on "Acquaintance Program of Research using Presented Accelerator Facilities at IUAC" Pt.Ravishankar Shukla University, Raipur on Jul.20, (2007).

3. Attended Workshop on Teacher Employment Under NMEICT. on 12 to 22 Dec. (2011) Ravvishankar Shukla University Raipur (C.G.)

4. Attended Workshop on "Entrepreneurship in Renewable Energy Technologies for Chhattisgarh Tribal '19 to 24 th sep (2016) at Pt. Ravishankar Shukla University Raipur (C.G.)

## **Z RESEARCH ACHIEVEMENT:**

- A. SUPERVISER 5 PhD. Students  
SUPERVISED 6 M. PHIL. Dissertations.
- B. Published 30 Research papers in International and National journals
- C. Presented / Published 41 Research papers in the Proceedings and abstract of National and International Conferences /Seminars/Symposia.

### **D.1 Ph. D. Awarded:**

1. **Vivek Singh Sonwane – 07/10/2017**

D2 1 Ph. D. Submitted

- 1 **Mr. A. Jadhav**

## **PRESENT WORKING PLACE AND NATURE OF JOB:**

Taking Post Graduate M.Sc. , M.Phil. classes at School of Studies in Physics and Astrophysics, Pt. Ravishankar Shukla University. Raipur (C.G.)

### **Declaration**

I certify that the foregoing information is correct and complete to best of my knowledge.

Signature of the candidate

Place :  
Date:

**(Dr. Anubba Singh Gour)**  
Associate Professor S.O.S.  
in Physics and Astro Physics  
Pt. R.S. University, Raipur (CO.)  
Phone: 2263048 (R)