

BIO-DATA OF DR. MRS. ANUBHA SINGH GOUR



1. **NAME** - **ANUBHA SINGH GOUR**
Ph.D., M.Phil, M.Sc.
2. **DESIGNATION** - Sr. Lecturer,
School of Studies in Physics
Pt. Ravishankar Shukla University
Raipur (C.G.)
3. **FATHER'S NAME** - Dr. R.K. Singh
4. **MARTIAL STATUS** - Married
5. **HUSBAND'S NAME** - Shri Sanjay Singh Gour
6. **DATE OF BIRTH** - April 18, 1969 State-C.G.
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Dr. Mrs. Anubha Singh Gour has been actively pursuing research work in the field of Mechanoluminescence, Thermo luminescence, Photoluminescence and Lyoluminescence of solids,. Her research publications in published and communicated is 43, whereas she published 5 papers in International and National Journals and 33 papers in International

and National Conference/ Symposia, and 05 papers have also been communicated for publication in International and National Journals.

Special Achievements: Awarded 1st Chhattisgarh Young Scientist congress award for paper entitled “mechanoluminescence induced by LASER in II – VI semiconductors” in the year (2002) on 2nd and 3rd Sep. at Pt. Ravishankar Shuukla University Raipur(C.G.). She attended 20 International and National Conference/ Symposia, refresher courses / Orientation Courses. She has membership of 5 professional bodies/ societies and membership of different comities in Pt. Ravishankar Shuukla University Raipur(C.G.).

BY DR. ANUBHA SINGH GOUR

PAPERS PRESENTATION AND SCIENTIFIC PUBLICATIONS : 43

PAPERS PUBLICATION IN NATIONAL & INTERNATIONAL JOURNALS : 05

RESEARCH PAPER IN CONFERENCES/SEMINARS/SYPOZIA : 33

COMMUNICATED PAPERS : 05

PAPER PUBLISHED IN INTERNATIONAL & NATIONAL JOURNALS:

1.	Clavage Mechanoluminescence Elemental and III V Semiconductor (with B.P. Chandra, R.P. Patel, V.K. Chandra, R.K. Gupta)	2003	J.of luminescence Netherlands America Vol. 104(2003)34-35
2.	Theoretical Approach to the Lyoluminescence of Organic Materials. (with B.P. Chandra, V.K. Chandra, D.S. Baghel and P.K. Khare)	2003	J. of Pure and Applied Physics, New Delhi, vol 41. (2003)pp 884-893.
3.	Dislocation unpinning model of Accoustic Emission From Alkali Halides (with B.P. Chandra, V.K. Chandra and Y. Patil)	2004	Praman Journal of Physics, Indian Academy of Science PB. 8005. C.V. Raman, Bangalore. vol No. 6 June (2004) P.P. 1281-1291.
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)	2004	Indian Journal of Engineering and material sciences. (NISCAIR) New Delhi Vol.II,October 2001.P.P. 421-428
5.	Luminescence in solids	2007	Journal of physics Education vol.

	(with B.P. Chandra)		24, No.1 April-June 2007 P.5-16 Pune.
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(Dr. (Mrs.) Anubha Singh Gour)

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

1. 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. Impact of Major Disturbance on Heliospheric Sturcture 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. 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. Statistical Study of Solar Optical H α Flares (with Arun P. Singh) Research Seminar on Space Physics Govt. Model Science College Rewa (M.P.) Autonomous 23-24 December, (**1993**).
5. 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. Anomalous Cosmic Ray Decreases, Observed During March-June 1991 (with A.P. Singh, A.P. Mishra, R.L. Singh) 9th National Space Science Symposiym Osmania University, Hyderabad. Feb. 6 to 14, (**1996**) Section C-2, Paper No. 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. Faractio-Muchanoluminescence in V-VI Semiconductors (with M.K. Shau, R.P. Patel, V.K. Chandra, B.P. Chandra) National Conference on LSI, Feb. 12-14, (2003). New Delhi.
10. Mechanoluminescence Produced during the deformation of II-VI compounds (with M.Sahu, B.P. Chandra). 90th Indian Science Bangalore University Bangalore, Jan. 3-7 (2003).
11. Size dependence of the luminescence efficiency of semiconductor nanoparticles (with M.Sahu, B.P. Chandra) 90th Indian Science Bangalore University Bangalore, Jan. 3-7, (2003).
12. Use of Mechanoluminescence in crack growth sensing (with V.K. Chandra and B.P. Chandra) International conference on luminescence to be held at BARC. Mumbai on Feb.9-12, (2004).
13. Dependence of the luminescence Diavalent Impurity Doped Sodium Chloride on Temperature (with Vibha Choudhary, B. Chourasia and B.P. Chandra) International conference on luminescence to be held at BARC. Mumbai on Feb. 9-12, (2004).
14. Luminescence stimulated by LASER shock (M.K. Sahu and B.P.Chandra) National conference on luminescence and its application Feb. 2-4, (2005) (Bangalore).
15. Thermal and Energy of Conversion characteristic of semiconductor nanoparticles (with M.K. Sahu, V.K. Chandra and B.P. Chandra) National Conference on luminescence and its applications Feb. 2-4, (2005) (Bangalore)
16. Photo stimulated luminescence of BaKBr:Eu+2 phosphors. (with Vibha Choudhary, Paridhi Tandan and B.P. Chandra) National Conference on luminescence and its application Feb. 2-4, (2005) (Bangalore)
17. Effect of Post-Irradiation deformation on the Thermo-luminescence of Ba+2S +2 and Ca-2 doped now crystals. (Vibha Choudhary, Basant Kumar) National Conference on luminescence and its applications Feb. 2-4, (2005) (Bangalore)
18. Spectral, Thermal and Efficiency characteristics of the photoluminescence of semiconductor nanoparticles (B.P. Chandra & P.K. Khare & R.S.Chandok) National Symposium on Nano science and Nanotechnology on Physics education Nov. 2-4 (2006) Jabalpur.
19. Characteristics of Photoplastic after effect in Trends Alkali halide crystals (with B.P. Chandra). National conference on "Current In Physics" at Bhilai Mahila Mahavidyalays Bhilai Nagar (C.G.) 490009 25-26 Feb. (2007)

20. Spectral Stokes shift and spectral broadening of Semiconductor Nanoparticles materials at (with B.P. Chandra) Durg on National Conference on “Physics of Nanostructured functional materials” Bhilai Institute of Technology, 16-17 March, (2007)
21. Effect of Particle size on the luminescence trends characteristics of semiconductor Nanocrystals and (with B.P. Chandra). College of Engineering and Technology, Bhilai (2007). National symposium on “Recent trends on Nanostructured materials and Nanotechnology” at Rungta Engineering and Technology, 490024 (C.G.) 23-24 March
22. Mechanoluminescence – A New Tool to Determine Parameters of Dislocations in Coloured Alkali – Halide Crystals. (with B.P. Chandra) National conference on (LSI) University Cimbatores Jan. 18-20 (2007)
23. Photoplastic effect in coloured Alkali halide Crystals (with B.P. Chandra) on Engineering Shankara Charya College of And Technology Oct. 26-27 (2007) P-25
24. Effect of Ba-doping on the Mechanoluminescence of γ -irradiated KCl Department crystals (Anubha Singh Gour and Somlata Institute of Sahu). Nov National conference on Advance in physics and its application. of physics Bhilai Technology (BITCON 2008) 7-8 (2008) Durg 491001
25. Studies on Photoplastic Memory effect in II-VI Semiconductors. (with B.P. Chandra) International conference on Academy of Physical Science CONIAPS-X Guru Ghasi Das university Bilaspur (C.G.) On 14-15 Jan (2008) P-119
26. Time Evolution of Mechano Luminescence in II-VI Semiconductors (with R.K. Goutom A at International conference on and its Applications ICLA – 2008

- Bagri, and B.P. Chandra)
Delhi
- National Physical laboratory New
13-16 Feb. **(2008)** P- 105
27. Laser Induced Pulsed Mechanoluminescence
in
In II-VI semiconductors.
Jabalpur
National seminar on Recent trends
Luminescence (NSRTL-2008)
Apr. 26 **(2008)**.
28. Studies on the Muchanoluminescence γ -
in
Irradiated KBr and KCl crystals
Jabalpur
National seminar on Recent trends
Luminescence (NSRTL-2008)
(with Somlata Shau)
Apr. 26-**(2008)**.
29. Photoplastic After Effect in II-VI
functional
Semiconductor (Anubha Singh Gour and
B.P. Chandra)
International conference on
materials for advanced Technology
ICFAT- Jan 29th – 30th **(2009)**
P. III Chennai – 600066.
30. Effect of Ba-Doping on the Mechanolumines
luminescence and
-cence of γ – irradiated KBr crystals (Anubha
Feb.
Singh Gour and Somlata Sahu)
National conference on
its applications (NCLA-2009) P-97
19-21 **(2009)** Kolkata.
31. Temporal, Thermal and activator concentration
Nanoscience and
Characteristics of semiconductor Nano crystals
2009) at
(Anubha Singh Goure and B.P. Chandra)
National conference on
Nanotechnology (NCONSANT-
2009).
Rungta College of Engineering and
Technology Bhilai on Nov. 14
32. Studies on Mechanoluminescence of γ -
Irradiated pure and Ba, Ca and Sr doped KBr
characterization and
Crystals
on
(Anubha Singh Goure, A. Meshram and
Anil Sahu)
National conference on High Tech
Materials synthesis
Applications at (DIMAT) Raipur
Dec. 14-16 **(2009)**.
33. Studies on Mechanoluminescence of γ -
Luminescence
Irradiated pure and Ba, Ca and Sr doped NaCl
Crystals
Gandhigram
(Anubha Singh Goure, A. Meshram and
Anil Sahu)
National conference on
and its applications.(NCLA-2010)
Feb 9-11 **2010** at GRI ,
624302

18. LIST OF COMMUNICATED PAPERS:

1. Laser Mechanoluminescence in II-IV Semiconductor (communicated) Indian Journal of Pure and Applied Physics. (Kolkata).
2. Photoplastic memory effect in II-VI 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.