

CURRICULUM VITAE

Dr. SANDHYA BHATT

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Present Position: Working as Assistant Professor (Physics) in Govt. P.G. College Khatima, Udham Singh Nagar, Uttarakhand (India) w.e.f. 23 November 2017.

Academic Qualifications:

QUALIFICATION	BOARD/UNIVERSITY	PERCENTAGE/GPA	YEAR OF PASSING
10th	Uttaranchal Board	78.83	2006
10+2	Uttarakhand Board	77.40	2008
B. Sc. (P. C. M.)	Kumaun University, Nainital	68.10	2011
M. Sc. (Physics)	G. B. P. U. A & T, Pantnagar	83.01	2013
Ph. D. (Physics)	G. B. P. U. A & T, Pantnagar	Course work completed with OGPA 8.251	2018

Achievements/Awards:

- CSIR NET JRF (Dec 2017).
- GATE (2015).
- First rank holder of M. Sc. (Physics).
- Uttarakhand State Eligibility Test (U-SET) 2015.
- Young Scientist Award at 10th Uttarakhand State Science and Technology Congress (UCOST) 2015-16.
- INSPIRE Fellow of Department of Science and Technology, India during Ph.D. programme.

List of Publications in International Journals:

- H. Chhabra, **S. Bhatt** and M. Kumar. Search of a model for melting temperature and cohesive energy of nanomaterials. Indian Journal of Pure and Applied Physics, 57, 361 (2019).
- **S. Bhatt** and M. Kumar. Development of thermodynamic model for size, shape, pressure and temperature dependent properties of nanomaterials. High Temperature-High Pressures, 47, 383 (2018).

- **S. Bhatt** and M. Kumar. Application of Bond energy model for different nanomaterials. Indian Journal of Pure and Applied Physics, 56, 210 (2018).
- **S. Bhatt** and M. Kumar. Effect of size and shape on melting and superheating of free standing and embedded nanoparticles. Journal of Physics and Chemistry of Solids, 106, 112 (2017).
- **S. Bhatt**, R. Kumar and M. Kumar. Specific heat and thermal conductivity of nanomaterials. Modern Physics Letters B, 31, 1750011 (2017).
- **S. Bhatt** and M. Kumar. Equation of state and Lattice parameter of SnO₂ nanomaterials. Materials Today: Proceedings, 4, 9547 (2017).
- G. Sharma, **S. Bhatt** and M. Kumar. Size, shape and temperature effect on nanomaterials. Indian Journal of Pure and Applied Physics, 53, 768 (2015).
- R. Kumar **S. Bhatt** and M. Kumar. Size and shape dependence of Debye temperature and Raman Frequency of nanomaterials. Modern Physics Letters B, 29, 155004 (2015).

Conference Papers:

- **S. Bhatt** and M. Kumar. (2016). Equation of state and Lattice parameter of SnO₂ nanomaterials, presented at International Conference on recent Trends in Engineering and material Sciences (ICEMS- 2016) organized by Jaipur National University, Jaipur during 17-19 March 2016.
- **S. Bhatt** and M. Kumar. (2016). Effect of size and shape on compression behaviour of nanomaterials at different temperatures, presented at 10th Uttarakhand State Science and Technology Congress (UCOST) Dehradun, during 10-12 February 2016.
- **S. Bhatt** and M. Kumar. (2015). Modeling for the thermal expansion and compression of nanomaterials, presented at International Conference on Science and Technology organized by SRMS College of Engineering and Technology, Bareilly U.P. during 27-28 February 2015.

Workshop/Course/Seminar/Symposium attended:

- International virtual conference on “Modern Instrumentation and Characterization Techniques in Applied Sciences” organised by MIET Kumaon Haldwani and Govt. P. G. College Khatima during 5-6 July 2020.
- International Webinar on “Impact of Covid-19 on Research and Academic Activities” organised by H.N.B. Garhwal University and Govt. P.G. College, New Tehri during 19-20 June 2020.
- Refresher Course in Experimental Physics at G. B. Pant University of Ag. & Tech., Pantnagar organized by Indian Academy of Sciences Bangalore, Indian National Science Academy New Delhi and The National Academy of Sciences India, Allahabad during 20 June – 5 July 2017.
- Workshop on CCFIS Awareness Session organized by Alumni Almamater Advancement Association (4A) Pantnagar during 27-28 February 2017.
- 91st BRNS- IANCAS National workshop on “Radiochemistry and Applications of Radioisotopes” sponsored by Board of Research in Nuclear Sciences (BRNS), Department of Atomic Energy (DAE) and conducted jointly by Radiations and Isotopic Tracers Laboratory (RITL) at G.B. Pant University of Agriculture and Technology, College of Basic Sciences and Humanities, Pantnagar Uttarakhand India

and Indian Association of Nuclear Chemists and Allied Scientists (IANCAS) during 22- 27 February 2016.

- Seminar on “Light and Light based Technologies (SLT-2016)” organized by Optical Society of India and Doon university, Dehradun during 13-14 February 2016.
- National seminar on “Interdisciplinary Approach of Science in Advancement of Technology: Art of Human Welfare (IASAT -15)” sponsored by Department of Science and Technology, Government of India, at Galgotias College of Engineering and Technology, Greater Noida, U.P. during 15-16 October 2015.
- Indo-US Symposium on Recent Trends in Nanobiotechnology organized by Uttarakhand Council for Biotechnology (UCB), Bio Tech Bhawan, Haldi, Uttarakhand India, on 10 March 2015.

Membership of Scientific bodies:

- Life Member, The Indian Science Congress Association Kolkata, India.
- Life member, The Indian Association of Physics Teachers, Kanpur, India.

Reviewer of International peer reviewed Journals:

- Physica B
- Journal of Physics and Chemistry of solids

Member of Editorial Board:

American Journal of Modern Physics

Computer Skills:

Origin Pro 8, R software, M. S. Office, Internet, etc.

Personal Information:

Father	:	Mr. Lalmani Bhatt
Date of Birth	:	26-06-1991
Gender	:	Female
Marital Status	:	Married
Spouse	:	Praveen Kharkwal
Nationality	:	Indian
Language Known	:	Hindi & English