Curriculum-Vitae **Satyam Kumar**

Personal Information	
Name	**Dr. Satyam Kumar**
Date of Birth	1st August 1989
Gender	Male
Nationality	Indian
E-mail:	satyamkumar@hrc.du.ac.in
Mailing Address	C/o Dr. Indrasen Ram, A-316, Asha Apartment railway road, Bazaria opposite bank of baroda, Ghaziabad, U.P.-201001
Permanent Address	Village- Jagdishpur, Post- Mawaiya, District- Mirzapur (U.P.), Pin code-231312, India
Phone/Mobile	+91-9452924644,

Fellowships awarded	**UGC-BHU Research Fellowship** National Fellowship by UGC
Research Interests	❖ Manganites based nanocomposites, Spintronics, photovoltaic ❖ Pervoskite Multiferroic Materials ❖ Energy materials, thin film Solar Cell, Perovskite Solar Cell

Academic details

Course	Year	University/Board	Subject (s)
Ph.D.	2015	Banaras Hindu University, Varanasi (U.P.), India	**Physics** *Thesis Topic "Study of Physical Properties of Some Manganite Perovskites"*
Post-Graduation (M.Sc.)	2011	Banaras Hindu University, Varanasi (U.P.), India	Physics
Graduation (B.Sc.)	2009	V.B.S. Purvanchal University, Jaunpur, (U.P.), India	Physics, Mathematics
Intermediate(12^{th})	2006	U.P. Board, Prayagraj, India	Physics, Chemistry, Mathematics, General Hindi, English
High school (10^{th})	2004	U.P. Board, Prayagraj, India	Science

Experience: Working as an Assistant Professor in the Department of Physics, Hansraj College, University of Delhi, Delhi-110007 since 1st January 2019 till day.

Subject Taught:

- Mechanics,
- Thermal Physics and statistical mechanics,
- Waves and Optics.

Administrative Assignments:

- worked as departmental admission for caste verification (2020-2021, 2021-2022).
- worked as departmental nominee for helpdesk (2021-2022)
- worked as departmental nominee for OBE examination (Nov-Dec-2021), (May-June 2021)
- Working as Departmental nominee for Students Welfare Committee (July 2022-till)
- Working as Departmental nominee for NAAC work in Criteria -5.
- Working as a Convenor for Connecting Dreams Foundation (CDF) society in the College.
- Working on a project on Solar LED with faculty members and students.
- Working as an Academic Counsellor at IGNOU Centre.
- Working as a member in research development committee.

List of Publications:

- "Structural, transport and optical properties of $(La_{0.6}Pr_{0.4})_{0.65}Ca_{0.35}MnO_3$ nanocrystals: a wide band-gap magnetic semiconductor", **Satyam Kumar**, G. D. Dwivedi, Shiv Kumar, R. B. Mathur, U. Saxena, A. K. Ghosh, Amish G. Joshi, H. D. Yang and Sandip Chatterjee. **Dalton Transactions 44, 3109 (2015). [SCI/ Scopus Indexed, IF-4.39]**
- "Particle size dependence on the structural, transport and optical properties of charge-ordered $Pr_{0.6}Ca_{0.4}MnO_3$", **Satyam Kumar**, G. D. Dwivedi, J. Lourembam, Shiv Kumar, U. Saxena, A. K. Ghosh, H. Chou, and Sandip Chatterjee. **Journal of Alloys and Compounds 649, 1094-1101 (2015). [SCI/ Scopus Indexed, IF-5.316]**
- "Structural, magnetic, magneto-transport properties, and electronic structure study of charge-ordered (La0.4Pr0.6)0.65Ca0.35MnO3", G.D. Dwivedi, **Satyam Kumar**, Amish G. Joshi, Shiv Kumar, A.K. Ghosh, H. Chou, H.D. Yang, Sandip Chatterjee, **Journal of Alloys and Compounds 699, 31-37 (2017). [SCI/ Scopus Indexed, IF-5.316]**

- "Structural, optical, and low-temperature resistivity of Ca-doped PrMnO 3 nanoparticles", **Satyam Kumar**, Indrasen Ram, Aditya Kumar, Upendra Kumar. **Emergent Materials 3(5),1-10, (2020). [Scopus Indexed, IF-NA]**
- " Synthesis and physical properties of nanopowder and electrical properties of bulk samples of $ZnFe_{2-x}Ni_xO_4$ (x: 0, 0.05, 0.10)" Harshpreet Cheema, **Satyam Kumar**, Parvez Ahmad Alvi, Banwari Lal Choudhary, Upendra Kumar. **Advanced Powder Technology 31,4241-4252, (2020). [SCI/ Scopus Indexed, IF-4.833]**
- "Study of structural, microstructure, impedance, and DC conductivity of Gd-doped SrCeO3 ceramics": Upendra Kumar; Dharmendra Yadav; Gurudeo Nirala; Sushma Yadav; Shail Upadhyay; **Satyam Kumar**; **Applied Physics A ,127, 964 (2021). [SCI/ Scopus Indexed, IF-2.584]**
- "Dielectric and Photoconductivity Dependence Study of Four-Wave Mixing Process in Photorefractive Materials"; Mahendra Kumar Maurya; T. K. Yadav; R. A. Yadav; **Satyam Kumar**; **Indian Journal of Physics 96, 3289–3296 (2022)**. **[Scopus Indexed, IF-1.947]**
- "Analysis of Correlation based Threshold Networks of Dow Jones stocks of USA: An Econophysics Approach": Sushil Kumar, **Satyam Kumar**, Upender Kumar, Sunil Kumar, Pawan Kumar, and Narinder Verma; **Journal of Engineering Science and Technology Review 15 (2) 198 – 207, (2022). [Scopus Indexed, IF-0.698]**
- "Structural confirmation and spectroscopic signature of N-Allyl-2–hydroxy-5-methyl-3-oxo-2, 3-dihydrobenzofuran-2-carboxamide and its monohydrate cluster"; T. Yadav, A.K. Vishwkarma, G. Brahmachari, I. Karmakar, P. Yadav, **S. Kumar**, C. Mahapatra,J. Chowdhury , R. Kumar , G.N. Pandey , P.K. Tripathi , A. Pathak ; **Journal of Molecular Structure 1267, 133566, (2022) [SCI/ Scopus Indexed, IF-3.841]**
- "Studies on the physical properties of BaTi1-xSnxO3 (x = 0, 0.04, 0.08, 0.12,0.16, 0.20) synthesized using solid state ceramic route";Harshpreet Cheema,Vedika Yadav , Ram Sunder Maurya, **Satyam Kumar**, P.A. Alvi , Upendra Kumar; **Materials Today: Proceedings DOI:10.1016/j.matpr.2022.06.349. [Scopus Indexed, IF-1.46].**
- "Study of structural, optical, dielectric, and electric properties of homovalently substituted Ce in SrTiO3 perovskite oxide"; Vedika Yadav, Harshpreet Cheema, Ram Sunder Maurya, **Satyam Kumar**, P. A. Alvi1, Minakshi Sharma, Upendra Kumar; **Ionics DOI: https://doi.org/10.1007/s11581-022-04782-2 [Scopus Indexed, IF-2.817]**
- "A Comparative Study of the Structural, Magnetic and Electrical Properties of Ni50Mn20(Ni/Co)5Ga25"; Durgesh Singh; Akhilesh Kumar Patel; Manju Mishra Patidar; **Satyam Kumar**, KG Suresh; [**Under Review in Current Applied Physics**].
- "An Ab Initio Analysis of Structural, optical, Electronic, and Thermal Properties of Cubic SrSnO3 using Wein2k" Arya, Aditya Kumar, Varsha Yadav, Hari Prasad Bhaskar, Sushil Kumar, **Satyam Kumar**, and Upendra Kumar [**Under Review in European journal physics**]

Book Chapter:

Edited Book Entitled "Sustainability of Green and Eco-friendly Composites"

Chapter Name: Lead-free multiferroic $BiFeO_3$ based sustainable green composites: Applications, opportunities, and future challenges
Full author list: Manish Kumar, Arvind Kumar, **Satyam Kumar**, Ziaul Khan
Publisher: CRC Press (Taylor and Francis) [**Accepted for Publication**]

Patent Details:
TITLE OF INVENTION: A Novel Cost Effective Composite Air Quality Monitoring System with Machine Learning Based Visualization and Analysis Tool.
APPLICATION NUMBER: 202231025795
Roll: Inventor
Status: Published on 10/06/2022

Reviewer Detail: Worked as Reviewer in Materials Today: Proceedings (Scopus Indexes)

ORAL/POSTER PRESENTATION

- Attended "**Conference on Neutron Scattering 2014**" organized by IISER, Pune on dated: February 10-12, 2014, at IISER Pune **(Poster Presentation).**
- Attended **International Conference** on "**Nanomaterials with Special Reference to Energy Security**" organized by Department of Physics on dated: 12-14 March 2014 **(Poster Presentation).**
- Attended **International Conference** on "**Electron microscope society of India (EMSI-2014)"** at University of Delhi, New Delhi on dated: 09-11 July 2014 **(Poster Presentation).**
- Attended **International Conference** on "**Recent Advances in Nanoscience & Nanotechnology-2014(ICRANN-2014)"** at Jawaharlal Nehru University, New Delhi on dated: 15-16 Dec 2014 **(Poster Presentation).**
- Attended "**International Conference on Frontiers of Spectroscopy (ICFS-2015)"** at BHU, Varanasi on dated: 10-12 January 2015. **(Poster Presentation).**
- Attended "**8th one day conference on Recent Trend in Research"** organized by physics department, BHU, Varanasi on dated 7th Feb 2015. (Poster Presentation).
- Attended **International Conference** on "**Electron microscope society of India (EMSI-2016)"** at IIT(BHU) on dated: 02-04 June 2016 **(Poster Presentation).**
- Attended **National Conference** on "Advanced Materials: Theory and Application (**NCAMTA-2019)"** at Hansraj College, University of Delhi on dated: 26-28, September 2019 **(Poster Presentation).**
- Attended **International Conference** on "**Recent Advances in Functional Materials (RAFM-2022)"** at Atma Ram Sanatan Dharma College, University of Delhi, New Delhi on dated: 14-16 March 2022 **(Oral Presentation).**

ORGANISED:

- Member of organizing committee in National Conference on Advanced Materials: Theory and Application, organized by the Department of Physics and electronics, Hansraj College during September 26-28, 2019.
- Organized a webinar on "Mitigating Global Warming and Climate Change: Need of Hydrogen Energy" organized by Department of Physics and electronics, Hansraj College during September 18, 2021.
- Organized a webinar on "Power of Positivity in Adversity" organized by Department of Physics and electronics, Hansraj College during September 25, 2021.

FACULTY DEVELOPMENT PROGRAM

- Attended One Week **Online Faculty Development Program on Emerging Trends in Applied Physics** organized by Department of Physics, SGT University, Gurugram dated 5th July to 9th July 2021.
- Attended One Week **Online Faculty Development Program on "Materials Characterization: Experimental And theoretical Aspects"** organized by Hansraj College, dated 20th September to 24th September 2021.

SCHOOL/ WORKSHOP

- Participated Summer School On*" Development And Characterization Of Advanced Materials"* organized by Department of Physics, Banaras Hindu University, India. Dated February 22, 2013, to March 14, 2013.
- Participated Winter school on "***Practical Crystallography and Structure Solution***" organized by Department of Physics, BHU Varanasi, India dated March 5-11, 2014.
- Attended Workshop on "**Interface between Natural Sciences and Biosciences**" organized by Department of Physics and Bioinformatics, MMV, BHU, Varanasi. March 25th-26th 2012.
- Attended Workshop on "***Nano Materials with Particular Reference to Energy Security***" organized by Department of Physics BHU Varanasi, India. March 11-17, 2014.
- Attended Workshop on "**Supramolecular Chemistry- Concepts And Perspectives**" organized by Department of Chemistry, MMV, BHU, Varanasi. April 4th-5th, 2014.

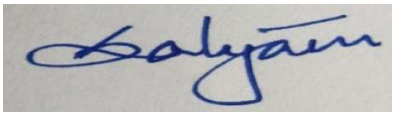
- Attended Workshop on "***Characterization and Functionalization of Nanomaterials***" organized by Department of Physics BHU Varanasi, India. March 09-13, 2015.
- Attended Three-day online Workshop on **"Challenges of Teaching Physics Laboratory Courses in Online Mode**" organized by Kalindi College, University of Delhi dated 23-25 Jan-2021.
- Attended Value Added e-Workshop on "**Energetic Beam Technology: From Materials Engineering to Diagnostics**" organized by Amity Institute of Nanotechnology Amity University UP dated June 21-25, 2021.
- Attended the online workshop on "**Power of Positivity in Adversity**" organized by Hansraj College dated 25th September 2021.
- Attended the online workshop on "**Virtual Labs**" organized by Hansraj College dated 4th October 2021.
- Attended One Day Symposium on "**Road ahead for HEI's Accreditation under Nep**" organed by Mahatma Hansraj Faculty Development Centre Hansraj College dated 7th April 2022.

OTHERS PARTICIPATION:

- Attended 5th one day conference on "**New Trends in Research**" organized by Department of Physics BHU dated 25th February-2012.
- Attended 6th one day conference on "**New Trends in Research**" organized by Department of Physics BHU dated 20th December-2012.
- Attended conference on "**Condensed Matter and Biological Systems**" organized by BHU dated 11th-14th January-2013.
- Attended webinar on "**Awareness on Intellectual property Rights (IPR)**" organized by Patent Information Centre, DST Government of Rajasthan dated 21st Jan -2021.
- Attended Training program under "**National Intellectual Property Awareness Mission**" organized by Intellectual Property Office, India dated 24th January-2022.
- Attended online lecture entitled "**Not yet finished journey of Hall effect**" organized by Deshabandhu College dated 15th Feb-2022.

Declaration

I hereby declare that all the information given above is true to the best of my knowledge.



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