


Curriculum Vitae

Full Name	Dr. Shubhra Kala		
Designation	Assistant Professor		
Department	Physics		
Campus	Birla and Chauras		
Telephone			
Mobile	7060482253		
Email	shubkala@gmail.com		
Education Qualification	Ph.D., IIT Delhi		
Teaching Experience	10 Years	Research Experience	20 Years
Areas of Interest/ Specialization			
<ol style="list-style-type: none"> 1. Nanomaterials 2. Thin films 3. Energy Harvesting: thermoelectric, photovoltaics and hydrogen storage 			
Honours & Awards NA			
<ol style="list-style-type: none"> 1. 2. 3. 			
Member of Academic Institutions NA			
<ol style="list-style-type: none"> 1. 2. 3. 			
Membership of Scientific Organization NA			
<ol style="list-style-type: none"> 1. 2. 3. 			
Research Supervision (No. of Ph.D. Degree Awarded/Registered)			
Awarded 03 and registered 01			
Research Projects/MoU undertaken NA			
<ol style="list-style-type: none"> 1. Title, Funding Agency, Total Cost, Completed/Ongoing 2. 3. 			
Administrative Experience NA			
<ol style="list-style-type: none"> 1. 2. 3. 			
Scientific Visits Abroad/International Collaboration NA			
<ol style="list-style-type: none"> 1. 2. 3. 			
Conference/Symposium/Workshop Attended during last five years (2017-2022).			
International			
<ol style="list-style-type: none"> 1. Paper Presented, International conference on Aerosols, Air Quality & Climate change on Himalaya Region of Uttarakhand AAC-2018 Department of Physics 			

HNBGU 21-23 October 2018.

2. Talk delivered ICAMEES-2018, UPES, Dehradun, 14-15 December 2018.
3. Invited Talk, International Conference on Material Science and applications (ICMSAA-19) Dept. of Physics HNBGU 25 -27 November 2019.
4. Invited Talk. International conference on advanced nanomaterials ANM-2020, IIIT Noida 18-20 February 2020.
5. Participated “Recent Advances in Material Science (ICRAMS-2021)” held on 15th to 17th May 2021.
6. Invited Talk International conference on Aerosols, Air Quality & Climate change on Himalaya Region of Uttarakhand AAC-2022 Department of Physics HNBGU 21-23 October 2022.

National

1. Invited Talk, IAPT & National Symposium on Recent Trends in Physics at Different Scales-2017, GKV, Haridwar, 29-31 October 2017.
2. Delivered Talk, National Symposium on Nano Science and Technology NSNST-2018, IISc. Bangalore, 18-20 June 2018.
3. Paper Presented, National Conference on Recent frontiers in chemistry (NCRFC-2018) Department of Chemistry, HNBGU, 27-28 April 2018.
4. Paper Presented 13th Uttarakhand State Science and Technology Congress, 2019, Dehradun, 26 February 2019.
5. Chaired Session, National workshop on Recent advancements in atmospheric science with special reference to himalaya RAAS 2019, Department of Physics HNBGU, 25 September 2019.
6. Convenor, Short term Course, Materials Synthesis and Characterization Techniques, NIT Uttarakhand, HNBGU and SLIT, 7-11 September 2020.
7. Chaired a technical session, 3rd National Conference on “Recent Advancement in Physical Sciences” jointly organized by Department of Chemistry, Department of Physics & Department of Mathematics, National Institute of Technology, Uttarakhand, December 19-20, 2021 at NIT Uttarakhand.

Conference/Symposium/Workshop Organized during last five years (2017-2022)

1. Organizing Secretary, “Two days workshop on Physical and Applied Sciences” Department of Physics, HNBGU, 14-15 March 2018.

Research

Publications 2017 onwards

Journals

1. “Synthesis of Mixed AuZn Nanoparticles by Spark Discharge Technique” Kala Shubhra, Kruis F.E. MRS Advances, 4, 1621, 2019 (Impact Factor= 0.84)

Proceedings

1. “Green Synthesis of copper and copper sulfide nanoparticles” Rawat Pooja, Nigam Anju, Kala Shubhra, AIP conference proceedings, 2220, 020102, 2020
2. “Optical, Structural and XPS studies of Ag nanoparticles prepared via Melia Azedarach plant extract” Nigam Anju, Kala Shubhra, AIP conference proceedings, 2220, 020116, 2020

3. "A Statistical study on daily solar radiation and meteorological parameters" Yadav Garima, Kala Shubhra, Amar Deep and Purohit K.D., 2220, 130050, 2020
4. "Viability of spark-discharge technique to produce semiconductor nanoparticles" Kala Shubhra, Rawat Pooja and Kruis Frank Einar, Materials Today Proceedings, 28, 96, 2020.
5. "Urtica Diocia Leaves Extract: A Natural Resource to Reduce Iron Salt to Synthesize Fe Nanoparticles" Kala Shubhra and Nigam Anju, IOP: Journal of Physics, 1849, 012035, 2021.
6. "Synthesis of Fe:Ag nanocomposites and their anti-bacterial activities" Nigam Anju, Rawat Pooja, Kala Shubhra, IOP: Journal of Physics, 2070, 01215, 2021
7. "Structural and bioactive properties of iron sulfide nanoparticles synthesized by Green-route' Nigam Anju, Kala Shubhra, Materials Today: Proceedings, 66, 2144, 2022
8. "Effect of annealing on structure and morphology of copper sulfide nanoparticles prepared by green methodology" Rawat Pooja, Kala Shubhra, Materials Today: Proceedings, 67, 719, 2022
9. "Metal nanoparticles prepared by using plant extracts as reducing agents: A review", Rawat Pooja, Nigam Anju and Kala Shubhra, CSIR-NISCAIR **Applied Innovative Research (ISSN 2581-8198 (Online), 2, 80, 2020.**
10. "Online-growth measurements on the generation of metal nanoaerosol and their offline structural properties", Kala Shubhra, Kruis F.E., Mehta B.R., CSIR-NISCAIR **Applied Innovative Research (ISSN 2581-8198 Online), 2, 93, 2020.**
11. "Radiosonde: A tool to monitor atmospheric profiles", Yadav Garima, Kala Shubhra, Amardeep, Purohit K.D., CSIR-NISCAIR **Applied Innovative Research (ISSN 2581-8198 Online), 2, 103, 2020.**

Books

1. Shubhra Kala, Ashok Kumar, Tarun Rawat, B. C. Chanyal and Kamal Deolal, **Elements of Quantum Mechanics and Relativity**, E-book for Uttarakhand Open University, Haldwani, 2019.

Total Number of Research Publications: 27

Total Citation, h-index, i10 index (Scopus/WoS/Google Scholar)

	All	Since 2019
<u>Citations</u>	219	77
<u>h-index</u>	9	6
<u>i10-index</u>	6	2