



ZAKIR HUSAIN DELHI COLLEGE
(University of Delhi)

Faculty Details

Title	First Name	Last Name	Photograph
DR.	GAYATRI	SHISHODIA	
Designation	Associate Professor		
Address	Department of Physics Zakir Husain Delhi College (University of Delhi) JawaharLal Nehru Marg, Delhi-110002		
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Web Page	----		
Educational Qualification			
Degree	Institution	Year	
Ph.D	University of Delhi	1993	

M,Phil	Meerut University	1987
M.Sc Physics (Spl. in Solid State Physics)	Meerut University	1986
B.Sc (Phys. Chem. Maths)	Meerut University	1984

Career Profile

Jan. 2006– till date	Associate Professor	Department of Physics	Zakir Husain Delhi College (University of Delhi)
2002 -- 2005	Reader	Department of Physics & Electronics	Zakir Husain Delhi College (University of Delhi)
1998 – 2002	Sr. Lecturer	Department of Physics & Electronics	Zakir Husain Delhi College (University of Delhi)
1993 – 1998	Lecturer	Department of Physics& Electronics	Zakir Husain Delhi College(University of Delhi)

Administrative Assignments

Teacher in Charge: Department of Physics (AY 2024-25)

Member: Committee of Courses, Department of Physics & Astrophysics (October 2021- July 2023)

Member: Arts & Culture Society (June 2024 onwards)

Member: WUS, Delhi University (October 2023 onwards)

Convener : Physical Science Society (2021-2023)

Member: Carrier Counseling & Placement Cell (July 2022 onwards)

Areas of Interest / Specialization

Material Science , Growth and Characterization of Semiconducting Thin Films. Solar Cells.

Subjects Taught

B.Sc (Prog.) Physical Sciences

Mechanics
Electricity & Magnetism
Wave & Optics

Publications Profile

Title of paper	Name of the author/s	Name of journal	Calendar Year of publication	ISSN number	Link to article / paper / abstract of the article
Modeling of ZrS ₂ /MoS ₂ Heterostructures for Photovoltaic Applications	Shubhra Gupta, Gayatri Shishodia & P.K. Shishodia	Journal of Electronic Materials	2024	1543-186X	https://doi.org/10.1007/s11664-024-11086-w

ZrO ₂ Nanoparticles Synthesized by the Sol–Gel Method: Dependence of Size on pH and Annealing Temperature	Shubhra Gupta, Gayatri Shishodia, Neelam Pahwa and P.K. Shishodia	Journal of Electronic Materials	2024	1543-186X	https://doi.org/10.1007/s11664-024-11185-8
Investigating the effects of bismuth doping on the structural, optical, and electrical properties of Cu ₂ ZnSnS ₄ thin films for photovoltaic applications	K. Rawat, K. Jha, Gayatri Shishodia and P.K. Shishodia	Journal of Materials Science: Materials in Electronics	2023	0957-4522	https://doi.org/10.1007/s10854-023-10740-z

A comparative study of ZrS ₂ -based thin film solar cells using the SCAPS solar cell capacitance simulator	Shubhra Gupta, Gayatri Shishodia and P.K. Shishodia	Semiconductor Science and Technology	2023	1361- 6641	https://iopscience.iop.org/article/10.1088/1361-6641/acac4d/meta
Computational analysis to study the effect of selenization on ZrS ₂ /CZTS heterostructure performance	Shubhra Gupta, Gayatri Shishodia and P.K. Shishodia	Engineering Research Express	2022	2631-8695	Computational analysis to study the effect of selenization on ZrS ₂ /CZTS heterostructure performance - IOPscience

Conference Organization/ Presentations (in the last five years)

1. Presented paper “Size dependence of ZrO₂ nanoparticles synthesized by sol-gel method on pH and annealing temperature” Gayatri Shishodia , Shubhra Gupta ,Neelam Pahwa and P.K.Shishodia at 28th International conference on nuclear tracks and Radiation Measurements , Gurugram University, Gurugram, 6 -10 Nov. 2023.

2. Presented Paper: Simulation of Solar Cell Parameters of AZO/ZrS₂/CuInSSe Heterostructure.

Gayatri Shishodia, Shubhra Gupta and P.K.Shishodia

ICREST-2024, JMI, 4-6 July 2024

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

Senior Research Fellowship (CSIR), Delhi

Association With Professional Bodies

Life Member- Semiconductor Society (India)

Other Activities- NA

