

Resume

Dr. Rashi Chaudhary

Ph.D. Life Science

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Sharda University,

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Research Interest

Wastewater Treatment, Cell Culture, Nanomaterials, Nanocomposite Fabrication, Membrane Fabrication & Microbial Biotechnology

Academic Qualification:

S. N.	EXAMS PASSED / Previous Diploma	UNIVERSITY / INSTITUTION / BOARD	YEAR OF PASSING	MAIN DOMAIN	SUBJECT OF SPECIALISATION	DIV. / CLASS & % OF MARKS
1	10 th	CBSE Board	2012	General Science	All	1 st Division
2	12 th	CBSE Board	2014	Science	PCB	1 st Division
3	B.Sc.	Chaudhary Charan Singh University	2017	Life Sciences	Biotechnology	1 st Division
4.	M.Sc.	Sharda University	2019	Biotechnology	Biotechnology	1 st Division
5.	B.Ed.	Chaudhary Charan Singh University	2021	Education	Education	1 st Division
6.	Ph.D.	Sharda University	2026	Life Sciences	Biotechnology	1 st Division

Technical Skills:

Nanotechnology Skills: Synthesis of Metal Nanoparticle, Nanocomposites, Carbon Quantum Dots

Cell Culturing Skills and Microscopy: Bacterial isolation, cell viability assay, Microbiological assay, Biochemical assay.

Computer and Software Skills: MS Office, Origin, Bio-Rander, ChemDraw

Instrument Expertise: UV-Vis spectrophotometer, FTIR, HPLC, Membrane Filtration Unit, BOD/COD Analyzer, Ultrasonicator, Muffle Furnace, Centrifuge, Autoclave, and Laminar Air Flow Unit.

Awards/Scholarships/Fellowship:

Awarded Sharda University Research Scholarship (SURS) by Sharda University, July 2019- July 2022

CST-UP Grants Project from September 2024 to March 2025.

Details about ongoing Ph. D:

PhD registered University:	Sharda University
Name of institute/lab of Ph.D. work	Sharda University
Name of your Ph.D. Supervisor/Co-Supervisor:	Dr. Garima Nagpal/ Prof. N B Singh
Title of Ph.D. work:	Removal of Pathogen from Water using Green Synthesized Polymer Nanocomposite.
Ph.D. Completed	January 2026

Professional Training:

S. No	Organization	Period		Details of Training/ Project Undertaken
		From	To	
1	War Widows Association	05 th March 2015	05 th June 2015	Basic Computer Course
2	Base Society	15 th June 2016	20 th august 2016	Water Quality Analysis
3	Madhusudhan Pvt. Ltd.	01 st December 2018	30 th December 2018	Training on Quality Control and sample handling at the Industrial level.

List of Publications:

S. No	Author(s)	Title	Name of Journal	Volume	Page	Year	Status
1.	Fredrick k Saah, Flomo L. Gbawoquiya, Rashi Chaudhary, Garima Nagpal	Green Synthesis of Carbon Quantum Dots for detecting Heavy Metal Ions in Environmental Samples	High Technology letters	Volume 29, Issue 9, 2023	174-205	2023	Published

2.	Fredrick k Saah, Flomo L. Gbawoquiya, Rashi Chaudhary, Garima Nagpal	"Innovative Synthesis and the Structural and Functional Attributes of Groundnut Shell-Derived Carbon Quantum Dots Magnetic Iron Oxide Nanocomposite" (GSCQD-FeFe2O4)	Journal of Xi'an University of Architecture & Technology	Volume XVI, Issue 1, 2024	229-241	2024	Published
3.	Fredrick K. Saah, *Garima Nagpal, Flomo L. Gbawoquiya, Rashi Chaudhary	GROUNDNUT SHELL CARBON QUANTUM DOT MAGNETIC IRON OXIDE NANOCOMPOSITE (GSCQD-FeFe2O4) FOR LEAD REMOVAL FROM WATER	Material Protection	Volume 65 (3),2024	440-451	2024	Published
4.	Rashi Chaudhary, N.B. Singh, Garima Nagpal*, Fredrick K Saah, Amit Kumar Singh	"Nanomaterials in Bacterial Detection: Current Trends and Future Outlook"	Material Protection	Volume 66 (1),2025	55-65	2025	Published
5.	Rashi Chaudhary, N.B. Singh, Garima Nagpal*, Fredrick K Saah	Antibacterial Activity of Reduced Graphene-Silver Oxide Nanocomposite against Gram-Negative Bacteria	The Microbe	Volume 5 (2024)	1-11	2024	Published
6.	Rashi Chaudhary ¹ , Garima Nagpal ^{2*}	Antibacterial Efficiency Of Green-Synthesized Rgo-Ag@PANI Nanocomposites For Water Disinfection Against Gram Negative Bacteria	International Journal of Environmental Sciences	Vol. 11 No. 24s,2025	876-886	2025	Published

7.	¹ Rashi Chaudhary, ² Garima Nagpal	ANTIBACTERIAL EFFICACY OF CuFe ₂ O ₄ -Ag@PANI NANOCOMPOSITE ON GRAM-POSITIVE AND GRAM-NEGATIVE BACTERIA	International Journal of Science, Engineering and Technology	Volume 13, Issue 4	1-11	2025	Published
8.	Rashi Chaudhary ¹ , N.B. Singh ² , Garima Nagpal ^{3*}	Eco-Friendly Zinc Oxide-Graphene Oxide nanocomposite Synthesized from Flower Extract for waterborne Pathogen Removal	Macromolecular Symposia	ICSEM 2025	1-9	2025	Published
9.	Amit Kumar Singh ¹ , Rashi Chaudhary ² , Garima Nagpal ^{2*}	Comparative Study of Metformin-Sitagliptin vs. Metformin-Glimepiride in Type-2 Diabetes: A Prospective Analysis	Macromolecular Symposia	ICSEM 2025	1-6	2025	Published
10.	Rashi Chaudhary, *Garima Nagpal, Amit Kumar Singh	Antibacterial Activity of Flower Waste-Enriched Zinc Oxide-Polyaniline Nanocomposites Against Bacillus subtilis	Chemical Engineering Journal: Green and Sustainable			2025	Under Review ID: CEJGAS- D-25-00107
11.	Garima Nagpal ^{1*} , Rashi Chaudhary ² and Shelton Mensah ¹	GO, rGO and Ag-rGO Nanocomposite as promising bacterial removal with Antibacterial activity	The Microbe			2025	Communicated Manuscript Id- MICROB-D-25-01179

12.	Rashi Chaudhary ¹ , Garima Nagpal ^{*2} , Piyush Gupta ³ , Amit Kumar Singh ⁴	Kinetic Stability of Transition Metal-Based Nanocomposites in Lithium-Ion Batteries: A Review of Recent Advances and Future Directions	Journal of Energy Storage				Communicate d Manscript Id- EST-D- 25-10556
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Patent Published Titled:

- NANOCOMPOSITE MATERIAL WITH ANTIBACTERIAL PROPERTIES AND PROCESS THEREOF. Inventors: RASHI CHAUDHARY, N. B. SINGH, GARIMA NAGPAL, FREDRICK K SAAH Application No. 202411074392_K&K Ref. No. IN24/1963 Your Ref: SURDC/P/24/08/434 ((Published)
- CARBON QUANTUM DOTS FROM NATURAL SOURCE, A COMPOSITE COMPRISING THE SAME, AND APPLICATION THERE OFF. Inventors: FREDRICK K SAAH, GARIMA NAGPAL, RASHI CHAUDHARY Application No. 202411046551 Your Ref.: SURDC/P/24/04/387 (Published)

Book Chapters:

S. No	Title	Author's Name	Publisher	Year of Publication
1.	Emerging trends of nanotechnology in cosmetics	Garima Nagpal, Rashi Chaudhary, Ratiram G. Chaudhary and N.B. Singh	Material Research Foundations	2023
2.	Flame Retardant Polymer Nanocomposites	Fredrick K Saah, Rashi Chaudhary and Garima Nagpal*	Cambridge Scholar Press	Accepted (2024)
3.	Structural and Chemical Properties of Nanomaterials	Rashi Chaudhary, Fredrick K Saah, and Garima Nagpal*	Jenny Stanford Publishing Pte. Ltd.	2025

List of Conference (Oral/Poster) Presentations:

S. No	Name of Award	Awarding Agency	Year
1.	Paper Presentation	3 rd National Seminar on “Applied Research” organized by the Research Development cell, Sharda University, NCR, India	2023
2.	Paper Presentation	2 nd online international conference on Energy & Environmental materials (INCEEM-2023) organized by Sharda School of Basic Sciences and Research, Department of Environmental Sciences, Sharda University, India	2023
3.	Paper Presentation	6 th International Conference on Recent Trends in Materials and Devices (ICRTMD 2023) organized by Amity Institute of Applied Sciences and Amity Institute of Advanced Research & Studies (Materials & Devices), Amity University, India	2023
4.	Paper Presentation	2 nd International Conference on Energy Materials and Devices (ICEMD 2024) Organized by Banaras Hindu University, Varanasi, India	2024
5.	Paper Presentation	8 International Conference on Functional Materials and Devices (ICFMD-2024) Permai Hotel Kuala Terengganu, Terengganu, Malaysia	2024
6.	Paper Presentation	2 nd International Conference on Recent Trends in Applied Physics & Material Science (RAM 2024) Bikaner Technical University	2024
7.	Paper Presentation	International Conference on Nano Material & Green Technology for Sustainability	2024
8.	Paper Presentation	5 th International Conference on Science & Engineering of Materials (ICSEM 2025) Sharda School of Basic Science and Research, Sharda University	2025
9.	Paper Presentation	3 rd Hybrid International Conference on Energy & Environmental Materials (INCEEM 2025), Sharda University	2025

Reference:

- i. Name with full address, Email and phone number
Dr Garima Nagpal (Assistant Professor), Department of Physics & Environmental Science, [Plot No. 32-34, Knowledge Park III, Greater Noida, Uttar Pradesh 201310](#) Sharda University
Garima.nagpal@sharda.ac.in, +91 9911876222
- ii. Name with full address, Email and phone number
Dr. Pramod Kumar Singh (Professor), Department of Physics & Environmental Science, [Plot No. 32-34, Knowledge Park III, Greater Noida, Uttar Pradesh 201310](#), Sharda University
pramodkumar.singh@sharda.ac.in, +91 9971729840

DECLARATION: -

I certify that the foregoing information is correct and complete to the best of my knowledge and belief and nothing has been concealed/distorted. If at any time I am found to have concealed/distorted any material information, my appointment shall be liable to be summarily terminated without notice/compensation.

Place: Greater Noida

Date:

A handwritten signature in blue ink that reads "Rhandhary". The letter 'R' is enclosed in a circle, and the name is underlined.

**Signature of the
candidate**