

Dr. Archana Pandey

PhD in Chemistry | Organic & Materials Chemistry Specialist

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📍 Varanasi, Uttar Pradesh, India



ACADEMIC QUALIFICATIONS

- 2012 – 2017** **Doctor of Philosophy (PhD) in Chemistry**
Department of Chemistry, Banaras Hindu University, Varanasi – 221 005, India
Thesis Supervisor: Prof. B. Singh
Thesis Title: "Physicochemical Studies on Newly Synthesised Organic Materials"
- 2008 – 2010** **Master of Science (M.Sc.) in Chemistry**
Specialisation: Organic Chemistry
Shri Agrasen Kanya Autonomous P.G. College, Varanasi
Affiliated to VBS Purvanchal University, Jaunpur
First Division – 65.42%
- 2006 – 2008** **Bachelor of Education (B.Ed.)**
VBS Purvanchal University, Jaunpur
First Division – 75.9%
- 2003 – 2006** **Bachelor of Science (B.Sc.)**
Department of Chemistry, Udai Pratap Autonomous College, Varanasi – 221002
Affiliated to VBS Purvanchal University, Jaunpur
Second Division – 56.94%
- 2001 – 2003** **Intermediate – Science (Class XII)**
H.S. Inter College, Deokali, Ghazipur (UP Board, Allahabad)
First Division – 71.6%
- 1999 – 2001** **High School (Class X)**
H.S. Inter College, Deokali, Ghazipur (UP Board, Allahabad)
First Division – 64.67%

AWARDS & RECOGNITION

- ✓ CSIR-NET (LS): June 2011
- ✓ JRF & SRF under UGC-RFSMS, BSR

WORK & TEACHING EXPERIENCE

- ✓ 3–4 years teaching experience of Bachelor of Science (B.Sc.) and Master of Science (M.Sc.)

PUBLICATIONS

1. **Archana Pandey, B. Singh, Chandrabhan Verma and Eno E. Ebenso.** "Synthesis, characterisation, and corrosion inhibition potential of two novel Schiff's Bases on mild steel in acidic medium." RSC Advances, 2017, 7, 47148–63.
2. **Archana Pandey, B. Singh.** "Green Synthesis, Physicochemical, Optical and Antibacterial Activity Studies of Two Novel Organic Molecular Complexes of 2-Chloro-4-Nitrobenzoic Acid." Journal of Applicable Chemistry, 2017, 6(5): 771–783.
3. **Archana Pandey, Chandrabhan Verma, B. Singh, Eno E. Ebenso.** "Synthesis, characterisation and corrosion inhibition properties of benzamide–2-chloro-4-nitrobenzoic acid and anthranilic acid–2-chloro-4-nitrobenzoic acid for mild steel corrosion in acidic medium." Journal of Molecular Structure, 1155 (2018), 110–122.

CONFERENCE PARTICIPATIONS

S.No.	Name of Conference	Venue & Date	Title of Poster/Oral Presented
1	International Conference on Multifunctional Materials for Future Application (ICMFA)	IIT BHU, Varanasi, India Oct 27–29, 2015	Synthesis, Structural and Spectral Studies of a Novel Organic Inter-Molecular Compound of Benzamide and 2-Chloro-4-nitrobenzoic acid
2	18th National Symposium in Chemistry, CRSI-2016 (10th CRSI-RSC Joint Symposium)	Punjab University, Chandigarh, India Feb 4–7, 2016	Synthesis, Structural and Physicochemical Studies on a Novel Organic Molecular Compound 5-((4-chloro-3-nitrophenylimino) methyl)-2-methoxyphenol
3	Indo-US International Conference (NSAMB) 2016, Department of Chemistry, BHU	Dept. of Chemistry, BHU, Varanasi, India Dec 19–22, 2016	Physicochemical, Optical and Biological Activity Studies of a Novel Organic Molecular Compound 2-(4-hydroxy-3-methoxybenzylideneamino)-4-nitrophenol, and role of nano crystallinity on emission
4	International Conference on Advances in Biological Systems and Materials Science in Nanoworld (ABSMSNW-2017)	Dept. of Physics, IIT (BHU), Varanasi Feb 19–23, 2017	Synthesis, Thermal and Optical properties of a Novel Organic Molecular Complex of 2-amino-5-bromopyridine and 2-chloro-4-nitrobenzoic acid
5	19th National Symposium in Chemistry, CRSI-2017 (11th CRSI-RSC Joint Symposium)	IISER – Indian Institute of Science Education and Research Mohali, Chandigarh 2017	Green Synthesis, Thermal, Optical and Antibacterial Activity Studies on a Novel Organic Molecular Complex (SAMCNB) of 2-Chloro-4-nitrobenzoic acid with Salicylamide (2-Hydroxybenzamide)
6	Recent Developments in Science and Technology with Research Productivity	DMPGC Faculty of Science, MGKVP Varanasi 2023	Participated as Faculty/Researcher
7	Paradigm Shift in Teaching Pedagogy in the Context of NEP-2020 (FDP)	DMPGC Faculty of Education, MGKVP Varanasi 2024	Faculty Development Programme Participation
8	AI-Powered Pedagogy: Reshaping Modern Teaching (FDP)	DMPGC Faculty of Science, MGKVP Varanasi 2025	Faculty Development Programme Participation

TECHNICAL SKILLS

Spectroscopy: Extensively used IR, NMR, ESR and Mass Spectroscopy for characterisation of organic and inorganic materials.

Characterisation Techniques: DSC, TGA/DTA, Powder XRD, UV–Visible Spectroscopy, and Elemental Analyser for structural determination.

LANGUAGE PROFICIENCY

- ✓ English
- ✓ Hindi

PERSONAL DETAILS

Name	Archana Pandey
Spouse Name	Shri Alok Kumar Chaubey
Father's Name	Shri Sudhakar Pandey
Mother's Name	Smt. Pramila Pandey
Gender	Female
Nationality	Indian
Permanent Address	Vill. – Kalyanpur, Post – Laxmangarh, Dist. – Chandauli, U.P., Pin – 232107

Place: Varanasi

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