



Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Anil	Last Name	Aggarwal	Photograph
Designation		Professor				
Address		92- Ground Floor, Anand Lok, New Delhi-110049				
Office Phone No.						
Residence		011- 41665829				
Mobile		9582585994				
Email		anilkrishan.aggarwal1729@gmail.com				
Web-Page						
Educational Qualifications						
Degree		University/Institute			Year	
Ph.D.		Title of Thesis "An MNDO Study Of Nucleophilic Addition To Some Nitrile Oxides"				
		University of Delhi			1987	
M.Phil./M.Tech.						
PG		M. D. Rohtak			1984	
UG		M. D. Rohtak			1980	
Any Other Qualification						
Career Profile						

Administrative Assignments

- Care taker N.C.C. officer of the college NCC wing in 1995.
- Coordinator, Department of Chemistry (1996-1997).
- Teacher Representative, Governing Body (1999-2000).
- Deputy Superintendent Of Exam (1993 and 1994).
- Teacher in Charge (2008-2009)
- Deputy Superintendent Of Exam (2009).
- Deputy Superintendent Of Exam for S.O.L. (2017).
- Superintendent Of Exam for S.O.L. (2019).
- Teacher in Charge (2018-2019).
- Teacher Representative, Governing Body (2024).

Areas of Interest/Specialisation**Physical Chemistry****Subjects Taught****Physical Chemistry****Innovation Project/Research Projects (Major Grants/Research Collaboration)**

Women's Participation in Politics and Society in Post-Globalisation Era: A comparative case-Study of three District; Rohtak (Haryana), Amritsar (Punjab) and Sriganganagar (Rajasthan)

Principal Investigators: Dr. VPS Malik, Dept. of Pol. Sc., Mr. Bishnu Satapathy, Dept. of Pol. Sc., **Dr. Anil Krishna Aggarwal, Dept. of Chem.**, Dr. Ruchira Dhingra, Dept. of Hind.

Mentor: Dr. Tapan Biswal, (S. O. L)

Publications Profile (Research Papers/Books)

- Sharma K. K. and **Aggarwal A.K.** (1986) An MNDO Study of the Reaction of Methanol with Fulminic Acid and Acetonitrile Oxide, *Int. J. Quantum Chem.*, 30, 213- 224.
- Sharma K.K. and **Aggarwal A.K.** (1987) A theoretical study of reaction of nitrile oxides with ammonia, *Indian J. Chem.*, 26A, 906-913.
- Chandra S., **Aggarwal A.K.** and Sharma K.K. (1987) Synthesis and characterisation of copper (II) complexes of isopropylmethylketone semicarbazone, *Synth. React. Inorg. Met. - Org. Chem.*, 17, 811-826.
- Babber S., Chandra S. and **Aggarwal A.K.** (1987), Synthesis of a typical chalcone and a flavanone of wyethia glabra, *Indian J. Chem.*, 26B, 797-798.
- Sharma K.K. and **Aggarwal A.K.** (1988) A theoretical study of reaction of nitrile oxides with methyl amine, *J. Mol. Str.*, 181, 389-399.
- Sharma K.K. and **Aggarwal A.K.** (1989) An MNDO Study of the Reaction of hydrolysis of nitrile oxide, *Indian J. Chem.*, 28A, 63-66.
- Kumara R., Joharb R. and **Aggarwal A.K.** (2012) Synthesis, structural elucidation and antimicrobial effectiveness of coordination entities of cobalt (II) and nickel (II) derived from 9,17-diaza-2,6,11,15-tetrathia-1,7,10,16-(1,2)-tetra benzenacyclooctadecaphan -8,17-diene, *Eur. J. Chem.*, 3 (1), 57-64.

8. Kumar R., Johar R. and **Aggarwal A.K.** (2013) Tailoring methodologies for the architecture of organometallic frameworks of Bi (V) derived from antibiotics: Spectral, MS, XRPD and molecular modeling with antifungal effectiveness, *J Integr Sci Technol.*, 1(1), 54-64.
9. Kumar R., Gulia K., Chandra M., **Aggarwal A.K.**, Kumar A., Mittan S., and Mishra P. (2019) Biomolecular interaction simulation of supramolecular topologies of organometallic assemblies of Bi(V) with antibiotic Tetracycline Amoxicilline drugs and their experimental evaluation, *J Biomed. Ther. Sci.*, 6(2), 61-72.
10. Kumar R., Mahajan K., Igwegbe C. A., **Aggarwal A. K.**, Shah M. A., and Sangeetika (2021) Chemical engineering of separation membrane, interfacial strategies, and mathematical modeling: A thorough analysis, *J. Integr. Sci. Technol.*, 9(2), 75-84.
11. Narang U., Gautam R., Yadav K.K., Bhattacharya S, Sahu P.K., **Aggarwal A.K.** and Chauhan M.S. (2022) Hydrogen bond controlled self assembly of nano structured triazine-functionalized new porphyrin molecules, *Chemical Papers*, Vol. 76, 3759–3769.
12. Kumar R., Chhikara B.S., Zeybekler S.E., Gupta D.S., Kaur G., Chhillar M., **Aggarwal A.K.** and Rahdar A. (2023) Nanotoxicity of multifunctional stoichiometric cobalt oxide nanoparticles (SCoONPs) with repercussions toward apoptosis, necrosis, and cancer necrosis factor (TNF- α) at nano-biointerfaces, *Review Toxicology Research*, Volume 12, 716-740.
13. Anushka K., Shrishty T., Jha V.K., Gupta S., Rangnath R., Mishra A., **Aggarwal A.K.**, Jha C.K., Dheer N., Jha A. K. (2023) The Mizoroki-Heck reaction between in situ generated alkenes and aryl halides: Cross-coupling route to substituted olefins, *Review RSC Advances*, Vol.13, 22512-22528.
14. Kishor A., Jha, S. K., Rangnath R., Akanksha, Roy S., Jha V.K., Gupta S., Yadav P., Rauta A.K. and **Aggarwal A.K.** (2024) Coinage metal-catalyzed or-mediated oxidative heteroarylation of arenes, *Review Tetrahedron Letters*, Vol. 149, 155249.
15. Kumar R. and **Aggarwal A.K.** (2024) Polymeric Network of Amines, Chemical Modifications, Conformational Analysis of Nanoparticle Interaction and Orientation of DNA, *Biomedical Journal of Scientific and Technical Research*, Vol. 56(2), 2024, 47817-47825.

Conference/Seminar/Faculty Development Programme/Workshop

1. Participant in **Refresher Course** in Computer Applications in Chemistry Code CH-11 in 1991.
2. Participant in **Orientation Course** in General and subject specific code-OR 10 in 1991.
3. Participant in **Refresher Course** in chemistry entitled 'Advances in Chemistry' code CH-89 in 1999.
4. **Resource Person** in the Intra College laboratory Skill Training Programme held from 10th – 14th July 2017 at Shivaji College, University of Delhi.
5. **Resource Person** in the Intra College laboratory Skill Training Programme held from 20th – 24th May 2019 at Shivaji College, University of Delhi.
6. **Resource Person** in the Summer Training held from 27th June – 3rd July 2019 at Shivaji College, University of Delhi.
7. **Organizer** in the Annual festival of Department of Chemistry held on 21st October 2019 at Shivaji College, University of Delhi.

8. **Resource Person** in the Inter College laboratory Skill Training Programme held from 27th Nov – 3rd December 2019 at Shivaji College, University of Delhi.
9. **Resource Person** in the National Conference on Relationship between Chemical Sciences and Society (RCSS-2020) held on 16th – 17th January 2020 at Shivaji College, University of Delhi.
10. **Supervisor** in the four weeks Inter-College Online Summer Training Programme on the Virtual World of Chemistry held on 1st – 28th July 2020 organised by Department of Chemistry, Shivaji College, University of Delhi.
11. **Resource Person** in the Work shop for school teachers in biological and chemical sciences held on 22nd March 2021 at Shivaji College, University of Delhi.
12. **Resource Person** in the Intra College laboratory Skill Training Programme held from 11th – 17th August 2021 at Shivaji College, University of Delhi.
13. **Resource Person** in the Inter College laboratory Skill Training Programme held from 14th – 20th September 2021 at Shivaji College, University of Delhi.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

Awards and Distinctions

1. Received **Junior Research Fellowship** from CSIR, India from August 1984 to August 1986.
2. Received **Senior Research Fellowship** from CSIR, India from September 1986 to August 1987.
3. “**Shivraj Bhushan-2024**”, Shivaji College, University of Delhi.

Memberships

1. Fee Concession committee
2. Time table committee
3. Sports committee
4. Convener discipline committee 2018-2021
5. Anti-ragging committee 2018-2021
6. Garden committee 2021-2022
7. Regular Students Examination Superintendent 2024
8. Internal Complaint Committee Member 2024
9. Fee-concession Committee Member 2023

Other Academic Activities

Cultural/Extracurricular Activities

Signature of Faculty Member