



Faculty Details



Title	DR.	First Name	SHALLU	Last Name	SACHDEVA	Photograph
Designation	Associate Professor					
Address	Acharya Narendra Dev College, University of Delhi, Govindpuri, Kalkaji, New Delhi- 110019					
Phone No Office	9810858089					
Email/ Web-Page	shallusachdeva@andc.du.ac.in					
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Department of Chemistry, University of Delhi				2001	
M.Sc. (Chemistry)	Department of Chemistry, University of Delhi				1998	
B.Sc. (Hons) Chemistry	Miranda House, University of Delhi				1996	
Career Profile						
Associate Professor in Acharya Narendra Dev College (2010 onwards) Reader in ANDC (2007) Senior Lecturer in ANDC (2002) Lecturer in ANDC (1998)						
Administrative Assignments						
Teacher -in - Charge (2006-2008) Convener, Alumni Committee Convener, Faculty Development Committee Member, Sports Committee Member, Debating Society Member, Garden Committee Member, Library Committee Member, Time-Table and Workload Committee Member, Canteen Committee Member, SASHAKT Member of the selection committee for scholarships for students						
Areas of Interest / Specialization						
Inorganic Chemistry						
Subjects Taught						
Bioinorganic Chemistry, Organometallic Chemistry, Chemical Bonding, Atomic Structure						

Research Guidance

Research project (UGC) titled- One-pot and solventless synthesis of metallo-porphyrins and porphyrins: A Green Chemistry approach. Department of Chemistry, University of Delhi. (2009-2012)

Publications Profile

RESEARCH PUBLICATIONS:

1. "Column chromatographic pre-concentration of cobalt and zinc with 3-hydroxy-4-imino-(N-2'-pyridyl)-2-methylnaphthalen-1-one adsorbed on naphthalene and their estimation in vitamin and milk Samples". Indian Journal of Chemistry, Vol. 39A, May 2000, pp. 564-566.
2. "Chemical speciation and molecular modelling studies on interaction of cephalothin with metal ions". Indian Journal of Chemistry, 2001, 40A, pp. 616-618.
3. "Chemical speciation and computer modelling studies on interaction of an antioxidant 7,8-dihydroxy-4-methylcoumarin with bivalent, metal ions". J. Indian Chem. Soc., Vol. 83, April 2006, pp. 356-360.
4. "Stability constant studies of trivalent lanthanides with an antioxidant 7,8-dihydroxy-4-methylcoumarin". PROC. NAT. ACAD. SCI. INDIA, 76(A), I, 2006, pp. 23-28.
5. "One pot and solvent free synthesis of 2,9,16,23-tetrachloro metal (II) phthalocyanines", Green Chemistry Letters and Reviews, 2012, 5(1), pp. 83-87.
6. "Review on adsorptive removal of metal ions and dyes from waste water using tamarind- based nanocomposites." Polymer Bulletin, November 2021, pp.1-36. IF= 2.87
7. "An investigation for the interaction of Gamma Oryzanol with the Mpro of SARS-CoV-2 to combat COVID 19: DFT, Molecular Docking, ADME and Molecular Dynamics Simulations." Journal of Biomolecular Structure and Dynamics, January 2022, pp.1-11.
8. "Synergic effect of Type II ZnO/BiVO₄ magnetic heterostructures for visible light driven degradation of bisphenol A and methyl violet." Applied Organometallic Chemistry, October 2022, e6936, 37 (1).
9. "Schiff Bases as Anti-inflammatory agents-A comprehensive review." European Journal of Biomedical and Pharmaceutical Sciences, 2022, 10(1), pp. 200-207.
10. "An investigation to understand the correlation between the experimental and density functional theory calculations of noscapine". Journal of Physical Organic Chemistry, 2023, e-4502, 1-19.
11. "Ni²⁺ ion sensitive sustainable sensors based on 4-vinyl pyridine -ethyl acrylate copolymer". Applied Chemical Engineering, 2023, 6(1), 38-47.

BOOK CHAPTERS

12. Chapter in Book "Chemistry of Phytopotentials," Health, Energy and Environmental Perspectives, Springer Publications, 2012, Book Chapter 41, pp19-196.
13. Chapter in Book "Approach towards Cleaner Environment" Durga Publications, Book Chapter 5, pp33-39, ISBN 81-8428-016-5.

E-CONTENT

Contribution to the development of e-content module developed for CEC, UGC in various topics of

Inorganic Chemistry for undergraduate courses (2021,2022).

<https://youtu.be/C1-aL1-bWNks>, <https://youtu.be/uLYpMGikHQk>,https://youtu.be/z_VZKBUPrf0,
<https://youtu.be/j8ltmkBLDWg>,<https://youtu.be/KqKT6RvK2YQ>,<https://youtu.be/3vz4tYcU7mY>,
<https://youtu.be/IrOGC6ZY-zU>,<https://youtu.be/2zmRd4srsx4>,<https://youtu.be/z6YL9ITGIZ4>,
<https://youtu.be/Y9-VjVhfdrs>,<https://youtu.be/fCINwpeMIBA>,<https://youtu.be/GnT4X2VdPzQ>,
<https://youtu.be/m3fls4i2VFc>,<https://youtu.be/8ijizdoWKNA>,<https://youtu.be/RHuv0k5ykUQ>,
<https://youtu.be/ENSKR9tcpDo>,<https://youtu.be/HBoprVAtxIk>,<https://youtu.be/XWjLHQKIPQc>,
<https://youtu.be/5yk7iZg3JoE>,<https://youtu.be/LdEDdwBR9hU>,<https://youtu.be/OK4cvFQv2gs>,
<https://youtu.be/TUYKWDjRRfQ>,<https://youtu.be/nFyu3rNh-7Y>,<https://youtu.be/ls9qUJ7cNnI>
<https://youtu.be/H6MIngEYY8Q>,<https://youtu.be/bNSP-Tn9-QU>,<https://youtu.be/R5TB6rAPRz4>,
<https://youtu.be/z1owttVD2Ec>,<https://youtu.be/nMXCmmOvDis>,<https://youtu.be/b8n96XL7V2A>

Conference / Presentations /Workshops

1. Resource Person for Class XII Chemistry NCERT (2017)
2. Co-Chaired a session in 3rd International Symposium on Ciliate Biology (ISCB2022) in collaboration with INSCR organized by DBT/ Acharya Narendra Dev College and Maitreyi College in November 2022

S. No.	Title of Paper Presented	Nature of Program	Institute/Agency
1.	Iodometric estimation of metal ions in solutions	Workshop on Analytical Laboratory Techniques - October 2021	DBT (STAR College)
2.	Synthetic compound of Vitamin B12 - Synthesis and Estimation	National Conference on Advancements in Interdisciplinary Research (NCAIR-2021) July 2022	Science Tech Institute, Lucknow
3.	Nanoscience in Cosmeticology	International Conference on Multidiscipline Academic Research and Innovation September 2022	Aryabhat Institute of Academics and Research, Lucknow
4.	Metal Ions and Chelates in Medicine	Online International Conference on Research Methodology (ICRM-2022) October 2022	Science Tech Institute, Lucknow and Dr Shakuntala Misra National Rehabilitation University

5.	Acharya P C Ray- An Inspiration for New Pedagogies and Research in NEP	International Conference on Contributions of Acharya Prafulla Chandra Ray as A Chemist and Freedom Fighter August 2022	Ministry of Culture in association with Vigyan Bharti
6.	Acharya P C Ray - A Visionary and Pioneer of Indian Science and Research	International Conference on Contributions of Acharya Prafulla Chandra Ray as a Chemist and Freedom Fighter August 2022	Ministry of Culture in association with Vigyan Bharti
7.	Women In Science- Past and Present	7th Annual International Conference of (INSCR) on Modulating the Environment with Microbes November 2022	INSCR
8.	Metal ion- Schiff base Complexes as Anti-Inflammatory Agents	2 nd International Conference on Multidiscipline Academic Research and Innovation January 2023	Aryabhat Institute of Academic Research, Amiruddaula Islamia Degree College, Lucknow
9.	Recent Trends in Chemical Sciences	International Conference on Recent Trends in Chemical Sciences-2023	Miranda House, in association with IUPAC

Research Projects (Major Grants/Research Collaboration)

Co-Investigator in a major research project (UGC) titled- One-pot and solventless synthesis of metallo-porphyrins and porphyrins: A Green Chemistry approach. Department of Chemistry, University of Delhi. (2009-2012)

Awards and Distinctions

1. Science faculty merit award for best candidate in M.Sc.
2. Gold Medal for first position in Inorganic Chemistry in M.Sc.
3. Third position in M.Sc.
4. Global academic Research Excellence Award of Best Faculty in Chemical Sciences- MKSES

<p>Educational Society, Lucknow 5. Proud Indian Iconic Reader and Researcher Award 2023- Ratna Prasad Multidisciplinary Research and Educational Society</p>
<p>Association With Professional Bodies</p>
<p>Life Membership of:</p> <ol style="list-style-type: none"> 1. Indian Society of Analytical Scientists 2. Ratna Prasad Multidisciplinary Research and Educational Society
<p>Other Activities</p>
<p>Participated In the curriculum development of B.Sc.(H) course (Inorganic Chemistry) (2008) Member of Committee of Courses (2007,2008) Member of organizing committee of Green Chemistry workshop in the Department of Chemistry, Delhi University (2012)</p>

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC and PDF file to be attached as a link on your faculty page.