

CURRICULUM-VITAE (Dr. Alka Singh)

Name : Prof. (Dr.) Alka Singh
Father s Name : Dr. N. B. Singh
Date of Birth : 5th July, 1975
Designation : Professor & Head, Department of Chemistry,
Feroze Gandhi College, Rae Bareli (U.P.)
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Teaching Experience: 20-12-2006 to 05-02-2009 (on govt. contract on fixed honorarium)

Since 06th Feb. 2009 till date (Regular)-UG & PG

Membership

Life Member of Indian Science Congress Association vide Membership No. L15576

Orientation/Refresher Courses/ Faculty Development programme/Training Courses

1. UGC Sponsored Orientation Programme organized by Academic Staff College, University of Lucknow from Jan 02-30, 2012 and obtained grade A.
2. UGC Sponsored Refresher Course organized by Academic Staff College, University of Lucknow in the subject Chemistry from March 01-21, 2013 and obtained grade A.

3. UGC Sponsored Refresher Course organized by Academic Staff College, University of Lucknow in the subject Environmental Studies (ID) from July 11 -30, 2016 and obtained grade A.
4. Training on Faculty Development Program sponsored by DST Government of India, New Delhi organized at Feroze Gandhi College, Rae Bareli from September 14-27, 2016
5. Training on Faculty Development Program sponsored by DST Government of India, New Delhi organized at Feroze Gandhi College, Rae Bareli from October 05-18, 2017.
6. National Virtual Faculty Development Programme On Recent Trends in Advanced Chemistry (E-FDP-RTAC 2020)organized by School of Engineering Department of Applied Sciences and Humanities (Department of chemistry)University of Petroleum and Energy Studies,Dehradun from June 8-13,2020
7. Online Faculty Development Programme on Fermentated Foods and Beverages Organised by Department of Chemistry Central Institute of Technology Kokrajhar BTAD Assam on 18-22 August, 2020.
8. International Faculty Development Programme on Research and Teaching methodology Organised by Department of Biotechnology and Department of Chemistry Govt.V.Y.T. P.G. Autonomous College Durg Chhattisgarh,Indiafrom July 5-11 2021.

Conferences/Seminars Attended/Participated

1. National Seminar on Management of Environmental Pollution for Sustainable Energy Production organized by Department of Plant Science, MJP Rohilkhand University, Bareilly (U.P.) on 10-11 April, 2010 and presented a paper entitled **Chemical Survey of Heavy Metals in the River Ganga at Dalmau, Rae Bareli (U.P.)**.
2. National Conference on Emerging Trend of Active/Smart/Nano Material organized by the Department of Applied Science, Feroze Gandhi Institute of Engineering & Technology, Rae Bareli on 8th August, 2010.
3. National Seminar on **Introduction to Green Chemistry Education: Theory and Practice** organized by the Department of Chemistry, VSSD College, Kanpur (U.P.) on 22-23 October, 2010 and presented a paper entitled **Analysing the Dimensions of Green Chemistry Technologies**.
4. Fourth International Conference on **Plants and Environmental Pollution** organized by International Society of Environmental Botanists & National Botanical Research Institute, Lucknow, India on 8-11 December, 2010 and made a poster presentation on **Analysing the Hydrochemistry of River Sai at Rae Bareli**.
5. National Seminar on **New Trends in Green Chemistry(NSGC-2010)** organized by the

- Department of Chemistry, DAV College, Kanpur(U.P.) on 14-15 December, 2010 and presented paper entitled **Analysing Perceptions and Misperceptions About Green Chemistry**.
6. SYS Lecture Series 2011 organized by Society of Young Scientists & Stem Cell Facility, All India Institute of Medical Sciences, New Delhi on the topic **Stem Cell Therapies for Autoimmune Diseases** on 5th Feb, 2011.
 7. UGC Sponsored National Conference on **RECENT DEVELOPMENT IN MATERIAL SCIENCE** organized by Department of Chemistry, Feroze Gandhi College, RaeBareli on 11-12 Feb, 2011 and presented a paper entitled **A Hydrochemical Analysis of Sai and Gomti Water with Specific Reference to Pollutants and Heavy metals and Removal of Cations by Use of Adsorbents**.
 8. National Seminar on **Environmental Health: Challenges and Management** organized by Pt. Deen Dayal Upadhyay Govt. Girls P.G. College, Rajajipuram, Lucknow on January 20-21, 2012 and presented a paper entitled **Global Environmental Issues**.
 9. Special Training Programme of Academic Counsellors organized through teleconference by IGNOU, Maidan Garhi, New Delhi on October 19, 2013.
 10. Two days' Workshop on **Excitement in Chemical Sciences** at Deptt. of Chemistry, Feroze Gandhi College, Raebareli on Sep 13-14, 2014 organized by The National Academy of Sciences, India.
 11. National Seminar on **Environmental Pollution and Its Impact on Modern Society** organized by **INDIRA GANDHI RAJKEEYA MAHILA MAHAVIDYALAYA, RAEBARELI** & sponsored by Deptt. of Higher Education, Govt. of U.P. on February 24-25, 2015 and presented a paper entitled, **Increasing water Pollution- the Problem and Solution**.
 12. University/College level seminar on **Higher Education in India: Present State and Trend** organized by the Department of Sociology, Feroze Gandhi College, RaeBareli on August 10, 2015 and presented a paper entitled, **Green Chemistry: A Recipe for Environmental Sustainability**.
 13. University/College level seminar on **Problem of Gender Discrimination in Rural India** organized by the Department of Sociology, Feroze Gandhi College, Rae Bareli on September 09, 2015 and presented a paper entitled, **Analysing Gender Gap in Science Education**.
 14. International Conference **IC SEMESTER 2018 on Social Entrepreneurship, Social Media, Business Research And Academic Research** organized by Lakshmi Narain College of Technology, Bhopal, (M.P.) in Association with South Asia Management Association on 8-9 September, 2018 and presented a paper entitled **Four Latest Elements on The Periodic Table**.
 15. National Seminar on **Innovative Frontiers in Applied Sciences** (September 26-28, 2018) organized by Chemical Society, Department of Chemistry, CMP College in Collaboration with Vijnana parishad prayag(Local Chapter), Prayagraj and presented a

paper on **Innovative Frontiers in Applied Sciences**.

16. Seven Days Hands-on-Workshop on HPLC, PCR, Gel-Doc & Spectrometry organized by CYTOGENE R&D Lucknow from May 11-17, 2019.
17. National Seminar on **Yoga For Wellness & Positive Health** sponsored by Department of Higher Education, Govt. of U.P. organized by Indira Gandhi Rajkeeya Mahila Mahavidyalaya, Rae Bareli (U.P.) on 14-15 December, 2019 and presented a paper on **Role of Yoga & Chemistry of Positive Health**.
18. National Workshop on Major Environmental and Agricultural Issues : New Development in Policy and Practices jointly organized by Society of Biological Sciences and Rural Development, Prayagraj, (U.P.), India & Bhartiya Go Vigyan Sewa Samiti, Prayagraj, (U.P.), India from December 20-26, 2019.
19. National Seminar on **Modern Perspectives of Positive Psychology and Health management in India** sponsored by Department of Higher Education, Govt. of U.P. organized by Department of Psychology, Feroze Gandhi College, Rae Bareli on 7 & 8 February, 2020 and presented a paper entitled **Positivism and Health Management: A Scientific Perspective**.
20. National Conference on **Agricultural Sustainability In Indian Perspective in the collaboration of Indian Economic Association (IEA), Bharatiya Arthik Shodh Sansthan (BASS) Uttar Pradesh –Uttarakhand Economic Association (UPUEA)** sponsored by dept of Higher Education Govt of Uttar Pradesh Lucknow organized by Department of Economics and Physics organized by Pratap Bahadur PG College Pratapgarh on 9&10 February 2020 and presented a paper entitled **Use of Green Chemistry in Organic Farming**.
21. National Webinar on **Organic Chemist and Spectroscopy: Introduction of NMR and its Applications I Structure Determination** on 28 may 2020 organised by Shree Vaishnav Vidyapeeth Vishwavidyalaya, Indore.
22. International Webinar on **Emerging Trends in biotechnology: Current and Future challenges in Biotechnology** Organised by Dept of Biotechnology, Pachhunga University College (PUC), and Mizoram University (MZU) from June 24-26, 2020.
23. National Seminar on **Prospects of Science and Society in the Era of AI (NSPSSEAI-2020)** organized by BSNVPG College (KKV), Lucknow on 3-4 march, 2020 and presented a paper entitled **Analysing Reciprocal Impact of Technology and Society**.
24. **Inter-disciplinary E-workshop on Bioinformatics and computational Biology: Introduction and Approaches** organized by Departments of Botany, Zoology and Chemistry CMP Degree College University of Allahabad. Prayagraj from Dec 9-15, 2020
25. National Seminar on **Multi Dimensions of New Education Policy-2020** sponsored by Dept. of Higher Education, Govt. of U.P. organized by Dr. Ambedkar Government Post

27. National e-Workshop on Instrumentation Techniques in Chemical Sciences(ITCS-2021) Organised by Department of Chemistry Prof Rajendra Singh(Rajju Bhaiya)Institute of Physical Sciences for Study and Research Veer Bahadur Singh Purvanchal University Jaunpur from June25-29,2021
28. One Day Online National Workshop on Himalayan Ecology and the Future Pathway of Ecological Sustainability of Indian Subcontinent organized by SHERPA in collaboration with the Department of Sociology, University of Lucknow on 16 December, 2023.
29. International Conference on Multidisciplinary Approaches to Chemical Sciences(InCoMACS) organized by the Department of Chemistry, National P.G. College, Lucknow on 24-26 October, 2024 in Hybrid Mode and gave an oral presentation on the topic 'Eco-friendly Green Synthesis of Silver Nanoparticles from leaf extract of Aloe vera: Characterization and Microbial Applications'.
30. International Conference on **Bridging Disciplines through Chemical Sciences for a Sustainable Future (ICBDCSSF-2026)**, 13-14Feb 2026 (Funded by DST-SERB) and presented a paper entitled '**Recent Advances in Photocatalysis for Sustainable and Green Energy Applications.**'

PUBLICATIONS

RESEARCH PAPERS

1. A research paper with N.B.Singh and T.Singh entitled **Reaction of Aromatic Thiocarboxamide With Mn(II), Fe(II), Fe(III), Cr(III), VO(IV), Co(I), and Ni(0) Complexes** published in the ORIENTAL JOURNAL OF CHEMISTRY, Vol. 17(1) 109-114 (2001). ISSN : 0970-020X.
2. A research paper entitled **A Hydrochemical Analysis of Sai and Gomti Water with Specific Reference to Pollutants and Heavy Metals and Removal of Cations by Use of Adsorbents** published in the proceeding of UGC Sponsored National Conference on RECENT DEVELOPMENT IN MATERIAL SCIENCE organized by Department of Chemistry, Feroze Gandhi College, Rae Bareilly on 11-12 Feb, 2011. ISBN: 978-81-89131-51-7
3. A research paper entitled, **A Study on Adsorption of Fe(II) by Accacia Bark** published in **The Asian Journal of Experimental Chemistry**; December 2011; Vol. 6 Issue (2) : 58-60 ISSN- 0973-4783 (International Refereed Research Journal on Chemistry and Chemical Sciences).
4. A research paper entitled, **EFFECTS OF POLYMERS ON SCIENCE AND TECHNOLOGY** published in **PATALIPUTRA JOURNAL OF INDOLOGY** Vol. VI Issue 2, May to August, 2018 pp 45-47, ISSN : 2320- 351X, Impact factor : 2.836

58-60 ISSN- 0973-4783 (International Refereed Research Journal on Chemistry and Chemical Sciences).

4. A research paper entitled, **EFFECTS OF POLYMERS ON SCIENCE AND TECHNOLOGY** published in **PATALIPUTRA JOURNAL OF INDOLOGY** Vol. VI Issue 2, May to August, 2018 pp 45-47, ISSN : 2320- 351X, Impact factor : 2.836

5. A research paper entitled, **CORROSION INHIBITION STUDY OF ALUMINIUM IN IN H₂SO₄ SOLUTION BY CHLOROPHYTUMBORIVILIANUM(PLANT) EXTRACT** published in **PATALIPUTRA JOURNAL OF INDOLOGY** Vol. VI Issue 2, May to August, 2018 pp 54-59, ISSN : 2320-351X, Impact factor : 2.836

6. A research paper entitled, **GREEN SCIENCE- BIOFUELS AND BIOREFINERY** published in **RESEARCH REVIEW** – International Peer Reviewed ISSN indexed Online Research Journal Vol. 4 Issue 1 January 2019 e-ISSN : 2455-3085 Impact Factor 5.214 UGC Ref. No. 44945 pp. 2363-2365

7. A research paper entitled, **PARTICIPATION OF GREEN KNOWLEDGE IN THE MANAGEMENT OF NATURAL SEA POLLUTION** published in **RESEARCH REVIEW** – International Peer Reviewed ISSN indexed Online Research Journal Vol. 4 Issue 3 March 2019 e-ISSN : 2455-3085 Impact Factor 5.214 UGC Ref. No. 44945 pp. 2663-2666

8. A research paper entitled, 'NANO TECHNOLOGY-BASED THERANOSTIC AND PROPHYLACTIC APPROACHES AGAINST SARS-CoV-2' published in **IMMUNOLOGICAL RESEARCH** – International Peer Reviewed online journal Vol. 72 Issue 1, 2024 (published on 8 Sept 2023) pp. 14-33, <https://doi.org/10.1007/s12026-023-09416-x>, IF: 4.4

9. A research paper entitled, 'A COMPREHENSIVE LOOK AT ANTIBIOTIC RESISTANCE' published in **INDUSTRIAL ENGINEERING JOURNAL** – International Peer Reviewed and UGC Care approved Group 1 journal Vol. 53 Issue 2:1, Feb 2024 pp. 92-97, ISSN : 0970-2555, IF: 6.82

10. A research paper entitled, 'AN INSIGHT INTO CHICKEN GUNYA VIRUS INFECTION' published in **JOURNAL OF NONLINEAR ANALYSIS AND OPTIMIZATION: THEORY AND APPLICATIONS** – International Peer Reviewed and UGC Care approved Group 1 journal Vol. 15 Issue 1:1, Jan - June 2024 pp. 129-133, ISSN : 1906-9685, IF: 7.62

12. A research paper entitled, 'Quantum Mechanical(In-Silico) Investigation of Ru(III) Catalysed Redox Reaction of Aspirin by NBS in Basic Medium' published in *Journal of Information and Computational Science – International Peer Reviewed and UGC Care approved Group II journal* Vol. 14 Issue 2, Feb 2024 pp. 203-218, ISSN : 1548-7741, IF: 6.2
13. A research paper entitled, "Computational Molecular Docking, ADME/T And AIM Investigations of 7-(4-Nitrophenyl) Benzo[6,7] Chromeno[3,2-E] Pyrido[1,2-A] Pyrimidin-6(7H)-One" published in *International Journal of Pharmaceutical Sciences*, 29 March, 2025, Vol. 3:3, Pp. 2946 – 2966. DOI-10.5281/zenodo.15104734, ISSN: 0975-4725

Book/Book Chapters

1. A book entitled, **A HANDBOOK OF WATER POLLUTION** published by Parikrama Prakashan Delhi. 2014. ISBN: 978-81-8021-028-6 pages 144.
2. A Chapter entitled '**Reactive Oxygen Species : Its Generation and Signaling During Abiotic Stress in Plants**' published in the book entitled '**Soil Health and Nutrition Management**' edited by Joshi et al. published by **CABI, UK. 2025, Pp 169 – 181. DOI: 10.1079/9781800624597.0010**

Signature



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