

## **CURRICULUM-VITAE (Dr. Alka Singh)**

Name : Dr. Alka Singh

Father s Name : Dr. N. B. Singh

Date of Birth : 5<sup>th</sup> July, 1975

Designation : Associate Professor, Department of Chemistry,  
Feroze Gandhi College, Rae Bareli (U.P.)

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Teaching Experience : From 20-12-2006 to 05-02-2009 (on govt. contract onfixed  
honorarium)

Since 06<sup>th</sup> 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 8<sup>th</sup> 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 5<sup>th</sup> 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 Mizorum 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

Graduate College, Unchahar, Rae Bareli(U.P.) on 4-5 march, 2021 and presented a paper entitled **Exploring Scientific Temper in NEP 2020.**

26. **National Seminar on Impact of National Education Policy-2020 On The Education System of India** sponsored by Dept. of Higher Education, Govt. of U.P. organized by **Government Degree College, Haripur, Nihastha, Rae Bareli(U.P.)** on 13-14 march, 2021 and presented a paper entitled **NEP2020 & Vocational Education – A Scientific Survey.**
  
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.

## **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).
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 Bareli 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 POLYMES 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 H<sub>2</sub>SO<sub>4</sub> 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 Fator 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 Fator 5.214 UGC Ref. No. 44945 pp. 2663-2666
8. A research paper entitled, ‘ADVANCES IN GREEN CHEMISTRY: SUSTAINABLE SYNTHESIS OF NOVEL ORGANIC COMPOUNDS’ published in JOURNAL OF NONLINEAR ANALYSIS AND OPTIMIZATION: THEORY AND APPLICATIONS – International Peer Reviewed and UGC Care approved Group 1 journal Vol. 14 Number 1(2023) pp. 12-17, ISSN : 1906-9685, IF: 7.62
9. 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 Sept2023) pp. 14-33, <https://doi.org/10.1007/s12026-023-09416-x>, IF: 4.4
10. A research paper entitled, ‘EXPLORING NANO MATERIAS FOR ENHANCED CATALYSIS IN CHEMICAL REACTIONS’ published in INDUSTRIAL ENGINEERING JOURNAL – International Peer Reviewed and UGC Care approved Group 1 journal Vol. 52 Issue 10:4(2023) pp. 65-70, ISSN : 0970-2555, IF: 6.82
11. A research paper entitled, ‘ANALYTICAL TECHNIQUES FOR CHARACTERIZING THE COMPOSITION AND STRUCTURE OF COMPLEX BIOMOLECULES’ published in INDUSTRIAL ENGINEERING JOURNAL – International Peer Reviewed and UGC Care approved Group 1 journal Vol. 53 Issue 1:2, Jan 2024 pp. 179-184, ISSN : 0970-2555, IF: 6.82
12. 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

13. A research paper entitled, 'AN INSIGHT INTO CHICKENGUNYA 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
14. A research paper entitled, 'Kinetic, Mechanistic, and Quantum Chemical Study of Osmium(VIII)-Catalyzed Bromination of Paracetamol by Acidic N-Bromosuccinimide (Idometric Titration)' published in Russian Journal of Organic Chemistry – International Peer Reviewed journal Vol. 60 Number 1, 2024( accepted June 19, 2021) pp. 101-114, ISSN : 1070-4280
15. 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

#### **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**' accepted for publication in the upcoming book entitled '**Soil Health and Nutrition Management**' edited by Joshi et al. to be published by **CABI, UK**

Signature

(Dr. Alka Singh)