

CURRICULUM VITAE



Dr. Shradha Sinha

Designation: Professor & Head

Department: Chemistry

Official Email ID: headachy@bbdniit.ac.in

ACADEMIC/INDUSTRIAL EXPERIENCE:- 23 years and 21 years

Teaching Experience: (23Years)

- Assistant Professor and Head from 1st September 1998 to 31st August 2003 in Babu Banarasi Das National Institute of Technology and Management (BBDNITM), Lucknow.
- Professor and Head from 1st September 2003 to 2nd June 2009 in Babu Banarasi Das National Institute of Technology and Management (BBDNITM), Lucknow.
- Professor from 28th February 2010 to June 2012 in Department of Chemistry in Babu Banarasi Das National Institute of Technology and Management (BBDNITM), Lucknow
- Professor from June 2012 to July 2013 in Department of Chemistry in Babu Banarasi Das Northern India Institute of Technology ,Lucknow
- Professor and Head from August 2013 till date in Department of Chemistry in Babu Banarasi Das Northern India Institute of Technology ,Lucknow

Administrative Experience:

- Seven years experience as Chief Coordinator of B.Tech. Ist Year in Babu Banarasi Das National Institute of Technology and Management (BBDNITM), Lucknow.
- Director from 4th June 2009 to 27th February 2010 in Babu Banarasi Das Educational Society's Group of Institutions (BBDESGI), Lucknow.

Research Experience: 21 Years

- Research Associate from January 1985 to December 1997 in Central Drug Research Institute, Lucknow.
 - Post Doctoral Fellow (1981-82) CSIR, New Delhi, Dept. of Chemistry, Lucknow University, Lucknow.
 - Senior Research Fellow (1980-81) CSIR, New Delhi, Dept. of Chemistry, Lucknow University, Lucknow.
 - Junior Research Fellow (1977-79) U.P. Council of Science and Technology, Lucknow, Dept. of Chemistry, Lucknow University, Lucknow.
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QUALIFICATION:- - MSc , Ph.D.

AREA OF INTEREST:- Organic , Medicinal and Applied Chemistry

RESEARCH PUBLICATION:-

RESEARCH PAPERS:

1. Synthesis and Anti-inflammatory activity of some substituted Tetrazoles.
Indian J. Pharma Sci. 41, 70-71, (1979).
2. Studies on Substituted Tetrazoles as CNS Depressant, Anticonvulsant and Monoamine Oxidase Inhibitory Agents. **Indian Drugs 18, 15** (1980).
3. Studies on Biologically Active Quinazolones: Synthesis of some newer variously substituted 4-Quinazolones as Antifertility Agents. **J. Indian Chem. Soc. 56**, 1237 (1979).
4. Pharmacological valuation of Some Newer Substituted 4-Quinazolones as CNS Depressant and Anticonvulsant Agents. **Indian Drug 17**, 96 (1980).
5. Synthesis of 2-Methyl-4 (p-substituted benzylideneamino) - benzoyloxy) quinolines and 2-Methyl-4 [(O-Substituted benzylideneamino) benzoyloxy] quinolines as Anticonvulsant Agents. **Indian J. Chem. 19**, 84 (1980).
6. Studies on some Newer Enaminonitriles : Synthesis of l-amino-2, 4 -dicyno- 4 (substituted benzylidenoamino acetamido)cyclohexane. **Acta Ciencia Indica 7**, 77 (1981).
7. Synthesis and Neuropharmacological studies of some newer Substituted benzimidazolythiocarbamides. **Indian J. Pharma 26**, 176 (1982).
8. Studies on some biologically activity quinzolones. Synthesis of 2-phenoxy-Methyl-3-N-subsituted Aminocarbonylmethyl-8-subsituted -4 (3H)-quinazoles as Anticonvulsant Agents **J. Indian Chem. Soc. 59**, 1196 (1982).
9. Synthesis of some Newer 1- Heterocyclic Amino iminomethyl-2-subsituted benzimidazoles as a potent CNS, Anticonvulsant and Monoamine oxidase inhibitory Agents. **Current Science, 51** (1981).
10. Search for potent Anthelminitics 3[o-substituted-benzylidene amino substituted benzoyl) 6-subsituted arylidene] -thiazolidinone-2-thiones. **Indian Drugs 19**, 312 (1984).
11. Studies on some newer thermally stable polyamides. **J. Macromol. Sci. Chem. 21**, 459 (1984).
12. Deterioration in physico-chemical characters of lotic water affected by urban waste **J. Ultra Chemistry 1**, 79-82 (2005).
13. Biologically active quinazolone: synthesis of 2-Methyl quinazolin 4-ones and their anthelmintic, antibacterial and antiviral activities. **Journal of Ultra Chemistry 2**, 127-132 (2006).
14. Synthesis and antimicrobial activity of substituted phenoxyacetyl hydrazine acetyl phthalimides, **Medicinal Chemistry Research 15**, 270 (2007).

15. Synthesis of 2-(6-Aryl-[1,2,4]Triazolo [3,4b] [1,3,4] Thiadiazole-3-yl Methyl) Isoindole 1,3-diones involving six synthetic steps for examining their antimicrobial potentials, **International Journal of Physical Sciences** **24**, 399-404(2012).
16. Impact of urban wastes on the physio-chemical characteristics of river Gomti at Lucknow, **Res.Envion.Life Sci.** **6** 1-4 (2013).
17. Synthesis of sterically hindered cyclohexyl bismuth(V) carboxylates, amides and oximes, **International Journal of Chemical Sciences** **9**, 74-82(2013).
18. Synthesis and antimicrobial activity of substituted phenoxyacetyl hydrazine acetyl-phthalimides, **Novus International Journal of Pharmaceutical Technology** **2**, 16-20(2013).
19. Integrated study of ground water quality in Industrial areas of comrawli village, Jagdishpur, District Amethi : A case study, **International Journal of Chemical Sciences** **9**, 7-12(2013).
20. Synthesis and biological study of novel benjimidazole quinazolones as possible antimicrobial and anticancer agents. **International J. Chemistry** **2**.392-397 (2013).
21. Biological activities of Helianthus annuus L. **Indian Perfumer** **57**,35-39 (2013).
22. Synthesis and characterization of Triaryltin substituted Tetrazoles. **International J. Chemistry** **2**.471-477 (2013).
23. Synthesis and Characterization of New p-Fluoro phenyl substituted Arylantimony 5-Carboxylates. **International J. of advanced Technology in Engg. and Science.** **2** 420-429 (2014).
24. Studies on the Synthesis.....Oxazines-4 Ones. **International J. of Advanced Research in Chemical Sciences** **1** 5-8 (2014).
25. Biological Activity of Artemisia Essential oils. **Indian Perfumer** **58** 25-32 (2014).
26. Antibacterila,insecticidal and antitumour activity of organoantimony compound. **International J. Chemistry.** **5**, 283-288 (2016).
27. Synthesis and Biological Activity of New 5- Imidazolone Thiocarbamides.**J.of International Academic Research for Multidisciplinary** **4** 103-109 (2016).
28. Impact of tanneries on ground water contamination in Unnao district. **Green Chemistry and Technology Letters** **2** 116-123(2016).
29. Integrated Assesment of Indian Spices as Immunity Boosters. **Global Journal of Medical Research** **20**, 60-65 (2020).
30. Cardamom- A Beneficial Spice ; **Indian Perfumer** ,**64**.14-18 (2020)
31. Medicinal Properties of Tinospora cordifolia in Current Epidemic; **Proceedings of World Conference 2020 on Role of Medicinal Chemistry in the Current Scenario ISBN: 978-620-2-68416-3** Publisher; LAP LAMBERT Academic Publishing.
32. Protection of Human Health and the Environment; **Proceedings of National Conference 2020 Effect of Carcinogenic Polycyclic Aromatic Hydrocarbons on Environment ISBN: 978-620-3-02487-6** Publisher; LAP LAMBERT Academic Publishing.
33. Effect of Radiations of Mobile phone on Human Health ; **Proceedings of Indo Egyptian Conference 2020 ON Health Sciences and Radiology ISBN: 978-620-2-91932-6** Publisher; LAP LAMBERT Academic Publishing
34. Assessment of ground waterquality in after monsoon period in region of Comrawli village , **International journal of creative Research thoughts (IJCRT)** **9**,231-245 (2021)
- 35.. Therapeutic Effects of Palasa: A Boon to Community , **Applied Ecology and Environmental Sciences** , **9**, 533-536 (2021).

REVIEW ARTICLES:

1. Pyrimidone as Biodynamic Agents, **Progress in Drug Research 31**, 127-60 (1987).
2. Chemistry and Pharmacology of Cannabis, **Progress in Drug Research 36**, 71-115 (1989).
3. Natural products as Anticancer Agents, **Progress in Drug Research 42**, 54-132 (1994).
4. Biologically active Quinazolones, **Progress in Drugs Research 43**, 144-238 (1995).

BOOK PUBLICATION:-

1. **Compendium of Indian Medicinal Plants Vol, 1, 1990**
2. **Compendium of Indian Medicinal Plants Vol, 2, 1991**
3. **Compendium of Indian Medicinal Plants Vol, 3, 1993**
4. **Compendium of Indian Medicinal Plants Vol, 4, 1995**
5. **Compendium of Indian Medicinal Plants Vol, 5, 1998**
(Published by Publication & Information Directorate New Delhi)
6. **Engineering Chemistry, B.Tech** Published by S. Chand & Co., Delhi.
7. **A Text Book on Fundamentals of Environmental Studies, B.Tech** Published by AITBS Publishers, New Delhi.
8. **A Manual of Practical Engineering Chemistry, B.Tech** Published by S. Chand & Co., New Delhi.
9. **Foundation of Environmental Studies, B.Tech** Published by Galgotia Publications in association with UPTU.
10. **A Text Book of Environmental Chemistry (For M. Sc. Chemistry)** Published by Galgotia Publications **New Delhi**.
11. **A Text Book of Environment & Ecology (For Pharmacy students)** Published by AITBS Publishers, New Delhi.
12. **A Text Book of Environment & Ecology (For B.Tech students)** Published by Green Publishers.
13. **Chemistry Practical Work Book** Published by Techguru Publishers.
14. **Engineering Chemistry** Published by Techguru Publishers.
15. **Advanced Engineering Chemistry** Published by Krishna Publication Merrut

16. A Textbook on Environmental Studies and Sustainability by AITBS Delhi
August 2021

FDP / FTP / CONFERENCES ATTENDED:-

Faculty Development Program (5 Days)

- “Sustainable Development of Green Chemistry in Chemical Engineering” Rajkiya Engineering College , Kannauj,UP, India sponsored by AKTU, From 28 Jan.to 1 Feb.2021
- “Plastic recycling Challenge and Opportunities” Department of Chemicals and Petrochemicals and Fertilizers, Gov. of India, Central Institute of Petrochemicals Engineering and Technology, IPT,Lucknow, 15 to 19 Feb,
- Outcome based Education and NBA Accreditation” organised by Department of Applied science and Humanities Boddaha Institute of Technology dated 31st March to 4th April 2021.
- Online Orientation Training Programme for Mentor organised from 27th September to 1st October 2021 under National Initiative for Technical Teachers Training.
- International one week faculty development program on “Research Methodology “ Amar sewa Mandals Kamla Nehru Mahavidalaya, Nagpur 2nd May to 7th May 2022.

Attended international Webinar and poster presentation on " Women in Science: Opportunities and Challenges" Isabella Thoburn College Lucknow,May 8 (2020).

Webinar Organised

- webinar on “**Building Immunity with Food**”, which is being organised by Department of Chemistry, BBDNIIT, Lucknow .
- International webinar on “**Chemistry from nature to mankind to combat COVID-19**”
- . Webinar on "**COVID-19 and it's Implication on Health Financing**" organized by Department of Chemistry, BBDNIIT
- Webinar on "**Sustainable Methodologies in Polymer Engineering**" organized by Department of Chemistry in association with Association of Chemistry Teachers, North Zone
- .FDP on "**Scope of Chemistry in Industries**".
- World Conference on "**Role of Medicinal Chemistry in the Current Scenario**".
- . Career Development Programme on **Career Avenue in Aroma Industry-2020**.
- . Lecture series in Chemistry

PAPERS PRESENTED AT VARIOUS CONFERENCES:

1. Studies of Biologically Active Quinazolones, Synthesis of Substituted-2-phenoxy-methyl-3-(heterocyclic) -4-quinazolones as Antifertility Agents. **Indian Pharmaceutical Congress** December 1978, held at Calcutta. Abstract No. A17.
2. Studies as some Newer Benzimidazolyl Thioureas as CNS Depressant and Anticonvulsant Agents. **Indian Pharmaceutical Congress**. December 1979, held at Baroda, Abstract No. A10.
3. Synthesis of some newer 2-substituted 1-heterocyclic methyl benzimidazoles, acting on Central Nervous System. **Indian Science Congress** 1980. Calcutta Abstract no. 155.
4. Search for Potent Anthelmintics, Synthesis of 1, 2-bis (morpholinyl/piperidinyl-3-n-substituted aminocarbonyl-8-substituted-4(3h) quinazolones as CNS Agents. **Indian Council of Chemist**. Agra No. ORG-56 (1981).
5. Studies on some Biologically Active Quinazolones, synthesis of 2 phenoxy methyl-3-n-substituted aminocarbonyl-8-substituted-4(3h) quinazolones as CNS Agents. **Indian Council of Chemist**. Agra. Abstract No. ORG-56 (1981).
6. "Use of Medical Plants in Ancient and Modern System" ,**Akhil Bhartiya Vigyan Conference** "Held in Lucknow from 16 to 18 October (2000).
7. "Indian Agriculture and its Influencing Factors" **National Conference as Swadeshi Vigyan** held on 26th to 29th December (2000). New Delhi.
8. "Environmental Pollution Causing Factors and its Control" National Conference on **Environment Preservation** in 21st Century held from 5-7 Feb 2001 at Etawah.
9. Physico-Chemical Analysis of Water at Unnao. National Symposium on **Ancient Indian Science Engineering & Technology interfaced with Modern Knowledge** held on December. 14-15 (2001).
10. "Impact of Industry on ground water contamination affecting human health" **National Conference on Global air Pollution & water as sustainer of life**, held in Varanasi on 9th & 10th Feb, (2003).
11. Synthesis and Anthelmintic Activity of N-(2-Methyl/Ethyl phthalimide-Substituted Quinazolin-4-OXO-3-Y1) Acetyl Morpholine/Pyrrolidine/1-Methyl. Piperazine. International Conference on "**Current Trends in Drug Design Discovery & Research**" held on 17 Feb 2004 in Central Drug Research Institute, Lucknow.
12. Impact of Industry on soil contamination on "**Workshop on Environmental Pollution Perspective & Practices**" held on 30 April 2004 in Department of civil Engineering, Institute of Engineering & Technology, Lucknow.

13. Waste Products: A cost effective and useful materials from solid waste **“National Seminar on Environmental Imbalances: Hazards and our role”** held on 16th March, 2004.
14. Environmental Imbalances and its Hazards with references to heavy metals **“National seminar on Environmental Imbalances: Hazards and our role”** held on 16th March, 2004.
15. Causes of Ground Water Depletion and Contamination at National Seminar on **Anthropogenic stresses on environment and Sustained development**. Acharya Narendra Dev Nagar Nigam Mahavidyakaya, Kanpur December 17th & 18th (2004).
16. Major Therapeutic Properties of some essential oil at **International Conference on future prospects of Mint Industry** by Essential oil association of India June 2005.
17. Strategies for Improvement in Contemporary Science Education National Symposium on **Innovative Methods in Chemistry Education**. October 2005.
18. **Natural** Products: A boon for future health care system presented in **International Conference on “Natural in Creative Perfumery”** held on 20th to 22nd April 2008 at Varanasi India.
19. Synthesis of Some New ----- Biodynamic Agents presented in International Seminar on **Pharmaceutical Education and Research** held on 23rd Feb 2010 at Kashipur, India
20. Making Chemistry Teaching: A relevant One presented in **International Conference on Education in Chemistry** held on 12th-14th 2010 at Mumbai, India
21. Impact of Toxic Metals on Human Health presented in national seminar on **New Trends in Green Chemistry** held on 14th -15th Dec 2010 at Kanpur, India
22. Biologically Active Quinazolones presented in national seminar on **Advances of Chemistry in Decades and Contribution of Chemical Researchers to Mankind** held on 29th to 30th Janurary 2011.
23. Role of water on Human health presented in national seminar on **Emerging Trends in Green Chemistry** held on October 15th to 17th 2011 at A.N.College Patna.
24. Analytical assessment of ground water quality during monsoon season of Comrawli Village (Jagdishpur) District Sultanpur presented in national seminar on **Chemistry Education and Research** held on Nov 8-10,2013 at Annamalai university, chidamburam
- 25 Assessment and Problems of Ground Water Contamination and its Interactive Effects on Flora and Fauna presented in National Conference on Emerging Areas in **Chemistry Education and Research and National Convention of Chemical Teachers** held on October 16-18 ,2014 at IIS University Jaipur.

26 Antimicrobial Study of 3-(5-Methyl[4,5]imidazo\Benzo[4,5] Imidazo-----Propan-1-Ones presented in symposium on **Drug Discovery in India** held on Jan. 1st 2015 at Central Drug Research Institute Lucknow.

27 Interactive effects of accumulation of organic and inorganic fertilizers in the ground water quality of India in National Conference on **Innovative Methods in Chemistry Education and National Convention of Chemical Teachers** held on October 8-10, 2015 at Department of Chemistry, University of Lucknow.

28 Assessment and Problems of Ground Water Contamination and its Interactive Effects on Biotic Components Invited lecture in International Seminar on **Global Trends in Health & Environment** held on Feb. 3rd 2016 at G I P E R Kashipur Uttarakhand

29 Integrated study and role of fuel energy in future. Invited lecture in National Seminar on **Save Fuel, Electricity, Energy, Environment & Water** held on March 13 2016 at Shri Jai Narain P. G . College Lucknow.

30. **Chemical Bonding & Its Application in Pharmacy** ,Invited lecture in Seminar at Global Institute of Pharmaceutical Education Research Kashipur Uttarakhand on 16th April 2016

31. The Positive Approaches for Waste to Energy (WTE) Management: A Non-Conventional Energy Potential in National Conference on **Current Trends in Chemical and Environmental Sciences & Their Application NCCTESA-2017** organised by Amity University Lucknow on **29-30th March 2017**.

32. Pharmacophore modeling, Virtual Screening and Molecular Docking Approaches in the Identification of a Series of Benzimidazole and Quinazoline analogs as Antihyperlipidemic, Antiadipogenic Agents through HMG-CoA inhibition. **2nd International Conference on Obesity and Chronic Diseases (ICOCD-2017) at San Francisco (US)from 6th July to 8th July 2017**.

33. Integrated Analytical Study of Fuels and their Cost Effective Energy Efficiency for next Generation Presented in National Convention on Innovative Perspectives of Chemistry in Environment , Pharmacy and Technology on 6th -8th October 2017 at Kakinada A.P.

34. Molecular modeling, Approaches in the Identification of a Series of Imidazolone Thiocarbamides as Antihyperlipidemic, Antiadipogenic Agents through HMG-CoA inhibition. By using Pharmacophore Modeling and Virtual Screening. **3rd International Conference on Obesity and Chronic Diseases (ICOCD-2018) at Los Angeles (US)from 23rd July to 25th July 2018**.

35. Quality Assessment of Hard Water: Consequences and control. National Conference on New Frontiers of Research and Education in Chemical Sciences & NCCT2018 at Regional Institute of Education Almer Rajasthan from 25th – 27th October 2018.

36. Identification of Series of Novel Benzimidazole Quinazolones as Antihyperlipidemic and Antiadipogenic Agents through HMG-CoA inhibition by using Molecular Approach **4th**

International Conference on Obesity and Chronic Diseases (ICOCD-2019) at San Francisco, US, from July 01-03,2019.

37. Invited lecture on History and application of Periodic Table at KKC Postgraduate College Lucknow on 21st September 2019.

38. Invited lecture on Introduction of Periodic Table at Global Institute Pharmaceutical & Education Research Kashipur Uttarakhand on 27th September 2019.

ACHIEVEMENTS:-

1. National “ Kayastha Kulbhushan Award for her outstanding services in the field of Higher Education at Vishal Adhiveshan by Akhil Bhartiya Kayastha Mahasabha on July 2011.

2. Best Woman Chemistry Teacher Award by Association of Chemistry Teachers Mumbai in 2017.

3 Vice Precedent of the Association of Chemistry Teachers North Zon

4 Member of Executive committee of Essential Oil Association of India

5. Memberships

- Indian Association of Chemistry Teachers.
- Essential Oil Association of India.
- Remote Sensing Research Society.
- Indian Society of Analytical Science.

OTHER RESPONSIBILITIES:

- Head of Deptt. and Coordinator of Fine Art

Date: 6th June 6, 2022

Place: Lucknow

BBDNIIT

Dr.Shradha Sinha