**CURRICULAM VITAE**

**Name**  Amrita Srivastava

**Designation**  Assistant Professor in Chemistry

**Institution**  University of Lucknow

**Teaching &Research Experience** 20 years

**EDUCATIONAL QUALIFICATION**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EXAMINATION | BOARD/UNIVERSITY | YEAR | DIVISION | PERCENTAGE(%) |
| HIGH SCHOOL | U.P. Board, Allahabad | 1978 | First | 80 |
| INTERMEDIATE | U.P. Board, Allahabad | 1980 | First | 68.8 |
| B.Sc. Chemistry | University of Allahabad | 1982 | First | 60 |
| M.Sc.(Physical Chemistry) | University of Allahabad | 1984 | First | 70.2 |
| Ph.D (Physical Chemistry) | University of Allahabad | 1989 | - | - |

* Awarded Maan Patra for meritorious standing in MSc. Exam , University of Allahabad.
* Completed Ph.D. under the supervision of Prof. Bharat Singh, University of Allahabad.

**List of Research Publications Research Papers**

1. Mechanism of Ru(III) Catalysis in acid bromate oxidation of some glycols : A Kinetic Studies. **Current science, oct5, 1989, Vol 58, No19, pp. 1082-1084 ( Authors- Bharat Singh, Amrita Ratan and Deepika Singh)**
2. Ru (III) Catalysis in acid bromate oxidation of Di ethylene glycol .A Kinetic and Mechanistic study. **Oxidation communication 13, No 4, 230-235 (1990) ( Authors- B. Singh, A.Ratan and D.Singh)**
3. Mechanism of Ru (III) Catalysis in N-Bromoacetamide oxidation of Adonitol in perchloric acid. A kinetic study. **Oxidation communication 15, No 1, 31-36, (1992) ( Authors- Bharat Singh, Deepika Singh Amrita Ratan and Ashutosh Kumar)**
4. Impact of Tanneries on ground water quality in Kanchandapur area, Kanpur Dehat District .U.P **Journal of the institute of Public Health Engineers, India Volume 2013-14, 0970-3195 No 2 ,July 2013( Authors- Amrita Srivastava and Supriya Singh Dr. Ram Prakash Dr. S.K Srivastava)**
5. Industrial Impact of chromium, fluoride & salinity in Unnao, UPSIDC Area, Unnao Uttar Pradesh.**International Journal for Scientific Research & Development Volume 1, issue 12 in February 2014, 2321- 0613.( Authors- Amrita Srivastava and Supriya Singh )**
6. Hexavalent Chromium in Ground water of Unnao Industrial area U.P (India), and its Removal through mangifera Indica Bark (Biosorption) **Journal of the institute of Public Health Engineers, India Volume Volume 2014-2015, 0970-3197 No 2 , July 2014**.( **Authors- Supriya Singh, Alka Tripathi, Amrita Srivastava )**
7. Spectral analysis, Chemical reactivity and first- hyperpolarizability evaluation of novel 1, 9-bis (2-cyano-2 ethyoxycarbonylvinyl) -5-(2-furyl)-dipyrromethane: Experimental & theoretical approaches.

**spectroscopy Letters(ISSN 1532 -2289)**  **3 Dec 2013** ( **Authors- R.N Singh , P Rawat , A. Kumar, P. Kant, A. Srivastava )**

1. Synthesis, characterisation and biological evaluation of novel Carboxamines, Oxadiazoles and Isoindoline-1,3-diones derived from 2-substituted phenylquinoline-4-carbohydrazides**: Journal of Advances in Chemistry, Vol-10, No-81` November 2014 (ISSN 2321-807X)** .( **Authors- Anil K. Tiwari, Abha Bishoni, Amrita Srivastava, Anil Kumar Verma, Shaheen Fatma , Chandrakant M. Tripathi and Bikram Banerjee )**
2. Mechanism of Ru(III) catalysis in acid bromate oxidation of dimethyl deethylene glycols: A kinetics study**, Archives of Applied Science Research, 2014, 6(6): 67-74 (ISSN-0975-508X) CODEN (USA) AASRC9**

( **Author- Amrita Srivastava)**

1. Kinetics and Mechanistic Study of Ru(III) Catalysed Oxidation of Oxalic Acid by Chloramine-T : in acidic medium**, IJAIST,Vol-32, No-32, Dec-2014 (ISSN:2319:2682)** ( **Author- Amrita Srivastava, Neelam)**
2. Kinetic and Mechanistic Studies of Uncatalysed Substitution of Co-ordinated Cyanide in Hexacyanoferrate(II) by 2,2’-Bipyridine**, IJCPS vol-4, No-1, Jan-Feb-2015, (ISSN:2319:6602)** ( **Authors- R.M Naik, Jyoti Rai Amrita Srivastava, Sheel Ratan and Indu Singh)**
3. Ru(III) catalysed oxidation of D-Mannitol by chloramines-T in acidic medium: A kinetic study**, International Research Journal Of Sustainable Science and Engineering, vol-3, issue-2, feb-2015(ISSN:2347-6176)** ( **Author- Amrita Srivastava, Swarn lata Bansal)**
4. Mechanistic study of Ru(III) catalysed oxidation of citric acid by chloramines-T: in acidic medium,**WJPPS,vol-4, issue-4, 975-986, 3 MARCH 2015( ISSN:2278-4357)** ( **Author- Amrita Srivastava, Neelam)**
5. Kinetics and mechanism of Ru(III) catalysed oxidation of Aspirin by Chloramine-T: in acidic medium, **WJPR, VOL-4, ISSUE-4, 1396-1404, 22 MARCH 2015 (ISSN:2277-7105)** ( **Author- Amrita Srivastava, Neha Agarwal)**
6. Kinetics and mechanism of Ru(III) catalysis in oxidation of Erythritol by

Chloramine-T, **WJPPS, vol-4, issue-5, 1189-1199,14 APRIL 2015 (ISSN 2278-4357)** ( **Author- Amrita Srivastava, SwarnLata)**

1. Ru(III) catalysed oxidation of Paracetamol by chloramine-T in aqueous alkaline medium- A Kinetis and Mechanistic Study,**WJPR, vol-4, issue-6, 1729-1738,20 MAY 2015( ISSN 2277-7105 )** ( **Author- Amrita Srivastava, Neha Agarwal)**
2. Kinetic and Mechanistic study of Ru(III) catalysed oxidation of Galactitol by chloramines-T : in acidic medium, **Journal of Chemistry and Chemical sciences, vol-5(7), 414-423,29 July-2015 ( ISSN:2319-7625 ) (Author- Amrita Srivastava, Swarn lata Bansal)**
3. Kinetic and Mechanistic study of Ru(III) catalysed oxidation of Xylitol by chloramines-T : in perchloric acidic medium**, (INTERNATIONAL JOURNAL OF CHEMICAL AND PHYSICAL SCIENCE, 2015, (SSN:2319-6602),Vol-4, no-5) (Author- Amrita Srivastava, Swarn lata Bansal)**
4. Kinetic and mechanistic study of oxidation of Acetyl Salylic Acid by Chloramine-T using Ru(III) as catalyst in aqueous alkaline medium: **WJPPS, Vol-4, issue-10, 1017-1026 8 SEPTEMBER 2015, ( ISSN 2278-4357 )** ( **Authors- Amrita Srivastava, Neha Agarwal)**
5. Kinetic and mechanistic study of Ru(III) catalyst oxidation of Crotonic Acid by Chloramine-T , **Int’l Journal of Applied Research, 20 AUGUST 2015, 1(10):380-384( ISSN:2394-5869 )** ( **Author- Amrita Srivastava, Neelam)**
6. Synthesis, characterisation and antimicrobial evaluation of novel pyridopyrimidine derivatives**, Indo Americal Journal of Pharmaceutical Research, 30 SEPTEMBER 2015 ,Vol-5, issue 09( ISSN:2231-6876 )** ( **Authors- Shaheen Fatima, Abha Bishnoi, Amrita Srivastava, Anil Kumar Verma, Chandrakant M. Tripathi )**
7. A comparative kinetic study of Ru(III) catalysed oxidative degradation of Aspirin by Chloramine-T in acidic and alkaline Media, **IJETMAS, vol-3, special issue 228-223( ISSN:2349 -4476 )** .( **Author- Amrita Srivastava, Neha Agarwal)**
8. The novel oxidation of 4-hydroxyacetanilide by N-chloro-4-methylbenzenesulphonamide in aqueous acidic medium, **IJATES, vol-3, issue-11, Nov-2015 pp 204-209 ( ISSN:2348- 7550)** ( **Author- Amrita Srivastava, Neha Agarwal)**
9. Rapid efficient root to synthesis of 2-amino- 4H-pyran-3-carbonitril derivatives in the present of L- proline and their antimicrobial activity **Der pharma chemica, FEB-2016,8(1):380-391(*ISSN 0975-413X*) *CODEDN (USA): PCHHAX*** ( **Authors- Anil Kumar Verma, Abha Bishnoi, Shaheen Fatma, Amrita Srivastava, Vineeta singh )**
10. Kinetics and mechanism of Ru(III) catalysed oxidation of Ssccinic acid by Chloramine-T: in acidic medium, **WJPR, VOL, ISSUE, 1396-1404, 22 FEBRUARY 2016 (ISSN:2277-7105)** ( **Author- Amrita Srivastava, Neelam)**
11. **M**echanistic studies of Ru (III) catalysed oxidation of antibiotics drug chloramphenicol by chloramines –T in HClO4 medium, **Archives of Applied Science Research,2016,8(6);28-33** (ISSN0975-508x)(Amrita Srivastava and Neha Agrawal)
12. **M**echanistic studies on the Mechanism of Oxidation of Adonitol with Ru(III) by Acidic Chloramine T **International Journal of Chemical and Physical Sciences( IJCPS Vol. 5, No,-5,Sep-Oct 2016 ISSN:2319-6602 (AMRITA SRIVASTAVA, SWARN LATA BANSAL)**
13. Synthesis, crystal structure, spectroscopic and quantum chemical studies of novel 3-((2-chlorophenyl)(piperidin-1-yl)methyl)-4- hydroxy-1-phenylquinolin-2(1H)-one **Journal of Molecular Structure(**1139 (2017) 338-352 **) (Shaheen Fatma a, Abha Bishnoi a, \*, Anil Kumar Verma a, Ramesh Singh b,Amrita Srivastava a)**
14. Synthesis ,Characterisation and invitro antimicrobial activity of some novel 4,5- dihydro-1-H-pyrazoline derivative **Indian Journal of Chemistry** (**Vol 56B,March 2017,pp. 317-324**) (Anil Kumar Tiwari Shaheen Fatma, Abha Bishnoi , Amrita Srivastava, Chandra Kant M Tripathi , Bikram Banerjee)
15. Ruthenium (III) Catalysed Oxidation of D-Sorbitol by Chloramine T in Perchloric Acid Medium: A Kinetic and Mechanistic Approach. **International Journal of Chemical and Physical Sciences(IJCPS Vol. 6, No.4, July-Aug 2017) (**ISSN:2319-6602 **) (**Amrita Srivastava, Swarn Lata Bansal**)**
16. Os (VIII) Catalyzed Oxidative Cleavage of Pyrrolidine Ring in L-Proline by Sodium Periodate *(NaIO4) in Alkaline Medium* ***IJSRSET (2017, Volume 3 | Issue 5*** *) (ISSN : 2394-4099) (Dr.* Amrita Srivastava, Madhu Gupta and Dr. Sheila Srivastava)
17. Green Approaches Towards the Synthesis of Substituted Quinazolines, **Current Green Chemistry** (**2017, 4, 25-37)** (Poornima Devi , Amrita Srivastava , Krishna Srivastava and Abha Bishnoi,)
18. The Kinetics and Mechanistic Study of Ru(III) catatysed Oxidation of Paracetamol by KBrO3 in Alkaline Medium **(2017,IJCPS Vol.6,No.6,) (***ISSN:2394\_4099***) (**Amrita Srivastava ,Ashish verma ,Madhu Gupta,)
19. Kinetics, Mechanistic , and Thermodynamic Studies for Oxidation of L-Alanine by alkaline Sodium Periodate in Presence of Os(VIII) in its Nano Concentration Range as Homogenous Catalyst **(Bulletin of Chemical reaction Engineering & Catalysis , 13(2) 2018 ,355 - 364 )** *(ISSN : 1978-2993)* **(**Amrita Srivastava , Madhu Gupta ,Sheila Srivastava **)**
20. Comparative Study of Kinetic and Mechanistic Study of Oxidation of L-Alanine and L-Proline by Sodium Periodate using Osmium(VIII) as Catalyst in its Nano- Concentration Range **(Russian Journal of Physical Chemistry A, *2019, Vol. 93, No. 1, pp. 69–79).*** *(ISSN 0036-0244). (*Amrita Srivastava , Madhu Gupta ,Sheila Srivastava).
21. Kinetic, Spectroscopic and DFT studies of novel oxidation of Acetylsalicylic acid by NaIO4 using micro-amount of Os(VIII) as a homogeneous catalyst in alkaline medium **(Russian Journal of Physical Chemistry A, 2019, Vol. 93(10), 2031-2039).** *(*Amrita Srivastava , Madhu Gupta ,Sheila Srivastava).
22. Kinetics of Os(VIII) Catalyzed Oxidation of 2-Pyrrolidine Carboxylic Acid in Alkaline Medium using Sodium Periodate as Oxidant: A Mechanistic Approach **(Chemistry and Chemical Technology, 2019, Vol. 13(3), 326-333).** *(*Amrita Srivastava , Madhu Gupta ,Sheila Srivastava).
23. Kinetic and Mechanistic studies of Ru(III) Catalyzed oxidation of Antibiotic drug Chloramphenicol by KBrO3 in acedic medium **(Journal of Biological and Chemical Research Vol. 36(2), 142-148 in 2019)** . (Amrita Srivastava, AshishVerma, Madhu Gupta and Virendra Kumar)
24. Kinetic, Mechanistic and Quantum Chemical Calculations of Ru(III) Catalyzed Redox Reaction of Aspirin by NBS in Acidic Medium published in the **(Journal of Information and Computational Science, 2019, Vol. 9(11), 516-540).** (Amrita Srivastava, Virendra Kumar, AshishVerma, Madhu Gupta, Yougesh Dubey).
25. Kinetic, Mechanistic and Quantum Chemical Calculations of Ru(III) Catalyzed Redox Reaction of paracetamol by NBS in Acidic Medium published in the **(Journal of Information and Computational Science, 2019, Vol. 9(11), 806-830).** (Amrita Srivastava,Virendra Kumara, AshishVermaa, Roop Kumar, Madhu Gupta).
26. Effect of reactivity on kinetics and a mechanistic investigation of rapid oxidation of acetaminophen by sodium periodate in the presence of a catalyst: Spectrophotometric and DFT approach (**(Russian Journal of Physical Chemistry A, 2020, Communicated).** *(*Amrita Srivastava , Madhu Gupta ,Sheila Srivastava).
27. Sodium Periodate as a Selective Oxidant for Diclofenac Sodium in Alkaline Medium **(Bulletin of Chemical reaction Engineering & Catalysis ,2020, Communicated ). (**Amrita Srivastava , Madhu Gupta ,Sheila Srivastava **)**

**CONFERENCES ATTENDED**

1. INDIAN SOCIETY OF ANALYUTICAL SCIENTIST (ISAS) DELHI CHAPTER AND UNIVERSITY OF LUCKNOW **(AUG, 2-3, 2008** at University of Lucknow)

1. SEMINAR ON ORGANOMETALLIC CHEMISTRY (Organized by Special Assistance Programme (SAP) **31** **MARCH, 2010** Department of Chemistry Lucknow University Lucknow.
2. NATIONAL SEMINAR ON SUPERMOLECULAR AND ORGANOMETALLIC CHEMISTRY **25, 11** MARCH **2011** Department of Chemistry Lucknow University.
3. INTERNATIONAL CONFERENCE & HUMBOLDT KOLLEG (**JANUARY 3-6, 2012** Department of Chemistry Lucknow University  **.**
4. NATURE PRODUCT & ORGANIC SYNTHESIS **MARCH 28, 2012** Department of Chemistry Lucknow University) **.**
5. NATIONAL SEMINAR IN CHEMISTRY UNDER DST- PURSE **7 AUGUST 2013** Department of Chemistry Lucknow University Lucknow.
6. INTERNATIONAL SYMPOSSIUM ON ADVVANCE IN BIOLOGICAL & MATERIAL SCIENCE ISABMS **15 JULY 2014** Humboldt Academy Lucknow University Lucknow.
7. CENTRE OF ADVANCED STUDY IN GEOLOGY **9-10 SEPTEMBER 2014** Lucknow University Lucknow.

1. INDO-US SYMPOSIUM ON CONTEMPORARY ISSUE OF CELL KINETICS **29-30, OCTOBER, 2014**
2. **2nd** INTERNATIONAL VIRTUAL CONGRESS **5-10 APRIL, 2015** Organise by International science congress Association.
3. INTERNATIONL CONFERENCE ON INNOVATIVE RESEARCH IN ENGINEERING SCIENCE AND MANGEMENT (ESM -15) **20 SEPTEMBER 2015** Jawaralal Nehru University, New Delhi.
4. NATIONAL SYPOSSIUM ON INNOVATIVE METHOD IN CHEMISTRY EDUCATION (IMCE-2015) **8-10 OCTOBER 2015** CHEMISTRY Department of Chemistry, Lucknow University.
5. 2nd INTERNATIONL CONFERENCE ON RECENT INNOVATION IN SCIENCE ENGINEERING AND MANAGEMENT (ICRISEM -15) **22 NOVEMBER 2015** Jawaharlal Nehru University, New Delhi.
6. INTERNATIONAL CONFERENCE ON “CHEMICAL SCIENCES: NATIONAL AND GLOBAL PROSPECTIVE” 29-31 OCTOBER 2018 LUCKNOW CHRISTIAN COLLEGE LUCKNOW

1. NATIONAL CONFERENCE ON “CHEMICAL SCIENCES: ADVANCING FRONTIERS” 15-16 MARCH 2019 Department of Chemistry Lucknow University
2. INTERNATIONAL CARBOHYDRTE CONFERENCE ON “EMERGING FRONTIERS IN CARBOHYDRATE CHEMISTRY AND GLYCOBIOLOGY” 5-7 DECEMBER 2019 Department of Chemistry Lucknow University

**POSTER PRESENTATION**

1. NATURE PRODUCT & ORGANIC SYNTHESIS **MARCH 28, 2012** Department of Chemistry Lucknow University) **.**
2. NATIONAL SEMINAR IN CHEMISTRY UNDER DST- PURSE **7 AUGUST 2013** Department of Chemistry Lucknow University Lucknow.

**ORAL PRESENTATION**

1. INDO-US SYMPOSIUM ON CONTEMPORARY ISSUE OF CELL KINETICS **29-30, OCTOBER, 2014**
2. **2nd** INTERNATIONAL VIRTUAL CONGRESS (IVC-2015) **5-10,** **APRIL ,2015** Organise by International science congress Association

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1. INTERNATIONL CONFERENCE ON INNOVATIVE RESEARCH IN ENGINEERING SCIENCE AND MANAGEMENT (ESM -15) **20 SEPTEMBER 2015** Jawaharlal Nehru University, New Delhi.
2. NATIONAL SYPOSSIUM ON INNOVATIVE METHOD IN CHEMISTRY EDUCATION (IMCE-2015) **8-10 OCTOBER 2015** CHEMISTRY Department of Chemistry Lucknow University.
3. 2nd INTERNATIONL CONFERENCE ON RECENT INNOVATION IN SCIENCE ENGINEERING AND MANAGEMENT (ICRISEM -15) **22 NOVEMBER 2015** Jawaharlal Nehru University , New Delhi.
4. INTERNATIONAL CONFERENCE ON “CHEMICAL SCIENCES: NATIONAL AND GLOBAL PROSPECTIVE” 29-31 OCTOBER 2018 LUCKNOW CHRISTIAN COLLEGE LUCKNOW
5. NATIONAL CONFERENCE ON “CHEMICAL SCIENCES: ADVANCING FRONTIERS” 15-16 MARCH 2019 Department of Chemistry Lucknow University
6. INTERNATIONAL CARBOHYDRTE CONFERENCE ON “EMERGING FRONTIERS IN CARBOHYDRATE CHEMISTRY AND GLYCOBIOLOGY” 5-7 DECEMBER 2019 Department of Chemistry Lucknow University

**MEMBER AS ORGANISING COMMITTEE OF**

1. INTERNATIONAL CONFERENCE & HUMBOLDT KOLLEG (**JANUARY 3-6, 2012** Department of Chemistry Lucknow University  **.**
2. NATURE PRODUCT & ORGANIC SYNTHESIS **MARCH 28 ,2012** Department of Chemistry Lucknow University) **.**
3. NATIONAL SEMINAR IN CHEMISTRY UNDER DST- PURSE **7 AUGUST 2013** Department of Chemistry Lucknow University Lucknow.
4. INTERNATIONAL SYMPOSSIUM ON ADVVANCE IN BIOLOGICAL & MATERIAL SCIENCE ISABMS **15 JULY 2014** Humboldt Academy Lucknow University Lucknow.
5. NATIONAL SYPOSSIUM ON INNOVATIVE METHOD IN CHEMISTRY EDUCATION (IMCE-2015) **8-10 OCTOBER 2015** CHEMISTRY Department of Chemistry Lucknow University
6. NATIONAL CONFERENCE ON “CHEMICAL SCIENCES: ADVANCING FRONTIERS” 15-16 MARCH 2019 Department of Chemistry Lucknow University
7. INTERNATIONAL CARBOHYDRTE CONFERENCE ON “EMERGING FRONTIERS IN CARBOHYDRATE CHEMISTRY AND GLYCOBIOLOGY” 5-7 DECEMBER 2019 Department of Chemistry Lucknow University

**ACADEMIC COURSES**

1. One UGC sponsored refresher Course in Chemistry (I.D), Academic Staff College, Lucknow, Feb-1 to Feb-28, 2005, University of Lucknow.
2. One orientation programme in Academic Staff College, Lucknow, Jan-27 to Feb-18, 2012, University of Lucknow.
3. One UGC sponsored refresh course in Chemistry, Academic Staff College, Lucknow, Mar-1 to Mar-21, 2013, University of Lucknow.
4. One UGC sponsored short term course in Chemistry, Academic Staff College, Lucknow, Aug- 2015, University of Lucknow.