**Curriculum vitae**

**Dr. Jyoti Chaudhary**

Associate Professor & Head, Department of Chemistry

Course Director, Polymer Science

University College of Science

Mohanlal Sukhadia University, Udaipur, Rajasthan

Phone: 09828626594

Email: jyotichaudhary@mlsu.ac.in

* **Career Highlights**
* My academic achievements include Certificate of merit in 1992 by MHRD, Govt. of India and a Gold Medal in M.Sc. Chemistry in the year 1999 by MLS University, Udaipur. Over the past 19 years of my service in education, I have prioritized moral values and ethics in my students, and providing them with the best professional career opportunities. As a catalyst in the placement, through collaborative efforts via projects and empirical studies conducted in the industries , more than 70 students have been placed in top Tyre & Polymer Industries like BKT Tires, JK Tyres Ltd., Ralson Tyres Ltd., Birla Tyres Ltd., etc. and currently serving industry at various senior positions in R & D, Quality control and Manufacturing. Also Guided150+ live Student’s project work.
* My research interest and enthusiasm prepared me to work in the area of polymer synthesis, characterization and applications in various fields. My interest is to explore efficient strategies towards modifying the structure of existing polymers by internal plasticization, incorporation of metal salts and by blending, and observe the change in their properties, also working for the designing and development of nanocomposites of thermosetting/thermoplastic resins and their biological influence. Recently, I have initiated research on Hydrogel, their applications and biogenic synthesis of nanoparticles along with their applications in water treatment technology and biomedical field in collaboration with IIT Delhi.
* Two collaborative research project with industry under CSR (Corporate social responsibility) has been funded by **Aromatics (India) Pvt. Ltd., New Delhi, to develop and design water based technology for human healthcare and to develop smart hemostatic system.**
* An Executive committee member of Asian Polymer Association (APA) & academic executive member from Rajasthan in IRI (Indian Rubber Institute, Rajasthan Branch).
* **Research/ Academic contribution**:
* 69 research papers in renowned National and International Journals.
* 11 books authored (4 Textbooks & 4 Subject books)
* Several book Chapters published/accepted by reputed publishers like Taylor & Francis, Apple Academic Press, Bentham Science and Elsevier.
* 49 papers presented in National and International Conferences.
* **Professional Experience**

•June 2018-Till Date:

Associate Professor, Department of Chemistry, Mohanlal Sukhadia University, Udaipur

• June 2007 – June 2018 :

Assistant Professor**,** Polymer Science, Mohanlal Sukhadia University, Udaipur, Rajasthan

• July 2005 to June 24, 2007

Contractual Guest Faculty, Polymer Science, Mohanlal Sukhadia University, Udaipur, Rajasthan.

* **Administrative Responsibilities**
* **Head,** Department of Chemistry, University college of Science, MLS University, Udaipur,(Rajasthan) **Since year 2018**.
* **Course Director,** M.Sc Industrial Chemistry, Department of Chemistry, University college of Science, MLS University, Udaipur,(Rajasthan)**Year: 2018- 2021**.
* **Course Director,** Department of Polymer Science, University College of Science, MLS University, Udaipur,(Rajasthan) **Since year 2018**.
* **Course Incharge,** Department of Polymer Science, University College of Science, MLS University, Udaipur,(Rajasthan**) Year: 2008-2018.**
* **Research Supervision (Ph.D):**

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| **S.No** | **Name of Student** | **Title** |
| 1. | Swati Purohit  **[Degree**  **Awarded]** | Synthesis and characterization of microbial resistant, high-performance polymers of maleimide derivatives. |
| 2. | Suman Jinger  **[Degree**  **Awarded]** | Synthesis, characterization and biological evaluation of N-substituted maleimides, acrylates, and vinyls. |
| 3. | Supriya Dadhich **[Degree**  **Awarded]** | Synthesis and characterization of epoxy and vinyl ester resins. |
| 4. | Giriraj Tailor  **[Degree**  **Awarded]** | Study on nanocomposite of thermosetting formaldehyde resins and their biological significance. |
| 5. | Monika Sharma  **[Degree**  **Awarded]** | Synthesis and characterization of Metal-Incorporated aniline formaldehyde resin nanocomposites |
| 6. | Sudha  **[Degree**  **Awarded]** | Studies on a acrylamide-Guar Gum based hybrid hydrogel derivatives for various sustainable environmental applications |
| 7. | Vipin Khoker | Construction and thermal evolution of metal nanoparticles using thermosetting resin and their biological importance |
| 8. | Suresh Jandu | Green Synthesis of Metal Nanoparticles using *Moringa oleifera”s* Leaves with Biological Applications |
| 9. | Chetna | Green Fabrication of Metal & Metal Oxide Nanoparticles and their Application |
| 10. | Pooja Badsara | Development of Infection Resistant Sodium Alginate based Membranes for Wound Care |
| 11. | Megha Yadav | Development of Infection resistant Poolylactic Acid films for Biomedical Application |
| 12. | Chesta Mehta | Development of Polyvinyl alcohol- Nanocopper based membranes for Water treatment |
| 13. | Nirmal Rathore | Development of Antimicrobial and Hemostatic Cotton Fabric |

* **Research Projects- PI/ Mentorship**

1. Principal Investigator in Aromatics (India) Pvt. Ltd., New Delhi funded research project titled “**Development of Smart Hemostatic System with Scar and Painfree Wound Healing Property**”

under Corporate Social Responsibility (CSR), **2024**.

1. Principal Investigator in Aromatics (India) Pvt. Ltd., New Delhi funded research project titled “**Design & Development of Nanogel based Drinking Water Decontamination System for Human Healthcare**”, under Corporate Social Responsibility (CSR), **2023**.
2. Mentor in DST-GOI funded research project titled “**Photoredox catalysis: Metal free formation of C-C bond**”, **2023**.
3. Principal Investigator in RUSA, MoE, New Delhi funded research project titled “**Novel natural products from traditional medicinal plants of South Rajasthan region: Structural, synthetic and biological studies**”, **2020.**

* **Books Published (10):**

1. A theory book on Pharmaceutical biochemistry published by Apex publishing house, ISSN- 81-301-0030-4.

2. A combine theory and practical book on Elements of biochemistry published by Apex publishing house, ISSN- 81-301-0037-1

3.A practical book on Pharmaceutical biochemistry and clinical pathology published by Apex publishing house, ISSN- 81-301-0060-6-3.

4. Pharmaceutical biochemistry and clinical pathology book published by Apex Publishing House, ISSN- 81-301-0051-7.

* **Subject books:**

1. Chemistry-Class 12th -Theory (Hindi) RBSE, Ajmer [Rajasthan Rajya Pathya Pustak Mandal], ISBN: 978-93-87089-19-8.
2. Chemistry-Class 12th -Theory (English) RBSE, Ajmer [Rajasthan Rajya Pathya Pustak Mandal], ISBN: 978-93-87089-99-0.
3. Chemistry-Class 12th-Practical (Hindi) RBSE, Ajmer [Rajasthan Rajya Pathya Pustak Mandal], ISBN: 978-93-87089-79-2.
4. Sanskrit Shiksha, General Science-Class 12th-Theory, RBSE, Ajmer [Rajasthan Rajya Pathya Pustak Mandal] ISBN:978-93-87089-84-6.
5. Environmental Science-Class 11th (Theory) RBSE, Ajmer [Rajasthan Rajya Pathya Pustak Mandal].
6. Sanskrit Shiksha, General Science-Class 11th -Theory, RBSE, Ajmer [Rajasthan Rajya Pathya Pustak Mandal].

* **Chapters published in Book:**

1. **“Decontamination and Purification of Wastewater via Metal Nanoparticles: An Overview”,** Advances in Water & Wastewater Treatment, published by - **Apple Academic Press, pp.-345-375.**

Giriraj Tailor, **Jyoti Chaudhary**, Saurabh Singh, Deepshikha Verma

1. **“Dental Polymers-Applications”,** Encyclopedia of biomedical polymers and polymeric biomaterials, **published by** - **Taylor & Francis**, **pp. – 2501-252**

Narendra P. S. Chauhan, Kiran Meghwal, Priya Juneja, **Jyoti Chaudhary,** Ramchandra Meghwal, Pinki B. Punjabi

1. **“Controlled release: Porous polymer”,** Encyclopedia of biomedical polymers and polymeric biomaterials, **published by** - **Taylor & Francis**, **pp. - 2155-2172**

Narendra P.S. Chauhan, Kiran Meghwal, Pinki Punjabi, **Jyoti Chaudhary**, Paridhi Kataria

1. **Recent Methods for Biogenic Synthesis of Metal Nanoparticles and their Applications’’** Recent Advancements in Multidimensional Applications of Nanotechnology, **Published by-Bentham Science, pp.- 203-224.**

Giriraj Tailor, **Jyoti Chaudhary**, Chesta Mehta, Saurabh Singh, Deepshikha Verma

1. **A Comprehensive Review on Medicinal Plant Extract-based Nanoparticles for Dye Degradation’’** Green Remediation: Volatile compounds and Sustainable Approaches to Mitigate Heavy Metal Stress in Plants’’**Published by- Apple Academic Press, U.S.A. (Accepted)**

Giriraj Tailor, **Jyoti Chaudhary**, Chesta Mehta, Saurabh Singh, Vipin Khoker, Deepshikha Verma

1. **Phenolic Resins for high performance Supercapacitor ’’**Phenolic Resins,published by- **Elsevier (Accepted)**

Giriraj Tailor, **Jyoti Chaudhary**, Chesta Mehta, Saurabh Singh, Deepshikha Verma

1. **Versatile Application of Phenolic Resins”** Phenolic Resins,Published by- Elsevier **(Accepted)**

Giriraj Tailor, **Jyoti Chaudhary**, Chetna, Deepshikha Verma

* **Membership of Professional Bodies:**

**Lifetime membership –**

1. Indian Rubber Institute (IRI), Rajasthan **Since 2016**
2. Him Science Congress Association **Since 2015**
3. Rajasthan Science Congress Association **Since 2012**
4. Asian Polymer Association **Since 2011**
5. The Indian Science Congress Association **Since 2010**

* **Training Courses/Faculty Development Programme:**

1. FDP 2016-17, Promotion of Entrepreneurship among Students **MLS University, Udaipur, September 18 to October 01, 2016.**

2. Refresher course in Chemistry conducted by UGC at **Academic staff college, University of Kerala, Kariavattom, March 04-24, 2014**.

3. Research Methodology and data analysis programme at FMS College, **PAHER University, Udaipur, December 21-27, 2014.**

4. Training workshop on science communication through digital media, NCSTC, DST, **Govt. of India, May 11-15, 2011.**

5. Staff Development Programme conducted by AICTE and Department of chemical technology, **North Maharashtra University, Jalgaon, June 15-30, 2011.** 6. RC-242 (Refresher course in chemistry) conducted by UGC **Academic staff college, H.P. University, Shimla, September 12 to October 1, 2011**.

7. 69th orientation Programme for faculty development sponsored by UGC, at **UGC Academic Staff College**, JNV University, **Jodhpur (Rajasthan)**, **November 16 to December 12, 2009.**

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| List of Research Publications |

1. **Jyoti Chaudhary**, Giriraj Tailor, Chetna. [*Bio-fabrication, characterization and antimicrobial action of Cadmium nanoparticles using Nyctanthes arbor-tristis (Leaves)*](https://scholar.google.com/scholar?oi=bibs&cluster=15209163999648263217&btnI=1&hl=en). Annual meeting of the Asian Polymer Association (pp. 111-124). Springer, Singapore.
2. Giriraj Tailor, **Jyoti Chaudhary**, Chesta Mehta. [*Biogenic Synthesis of Sulphur Nanoparticles Using Ocimum Canum Leaves for Antibacterial Application Towards Gram-Positive and Gram-Negative Pathogens*](https://link.springer.com/chapter/10.1007/978-981-97-7209-4_8)*.*In Annual meeting of the Asian Polymer Association (pp. 97-110). Springer, Singapore.
3. Giriraj Tailor, **Jyoti Chaudhary**, Deepshikha Verma, Saurabh Singh, Ankita Mathur. *Biofilm inflection via chemically synthesized silver and nickel nanoparticles.* Discover Applied Sciences, 7(1), 1-14, 2024.
4. Giriraj Tailor, **Jyoti Chaudhary**, Saurabh Singh, Deepshikha Verma, Manoj Joshi. [*Comprehensive Characterization of Cobalt Oxide Nanoparticles using Microscopic and Biochemical Assay*](https://scholar.google.com/scholar?oi=bibs&cluster=17366237555695776433&btnI=1&hl=en)*.*Next Research,100098,2024.
5. Giriraj Tailor, Muhammad Tukur Mukhtar, Ahmad Nasir Labaran, Alhassan Muhd Garba, Ya’u Datti, Saurabh Singh, Deepak Kumar,**Jyoti Chaudhary**.[*Green synthesis of iron nanoparticles using Mangifera indica leaves extract: phytochemical analysis and characterizations, for environmental remediation of pollution*](https://link.springer.com/article/10.1007/s41204-023-00353-6)*.*Nanotechnology for Environmental Engineering, 9(1), 77-84, 2024.
6. **Jyoti Chaudhary**, Vipin Khoker, Giriraj Tailor. *Synthesis and Characterization of Zinc Nanoparticles using Thermosetting Resins*. Journal of Population Therapeutics and Clinical Pharmacology, 247-253,2024.
7. **Jyoti Chaudhary**, Giriraj Tailor, Chesta Mehta,Megha Yadav. *An overview of biosynthesized metal nanoparticles via medicinal plant extracts of the Moraceae family.*Biocatalysis and Agricultural Biotechnology, 102812, 2023.
8. **Jyoti Chaudhary**, Suresh Jandu, &Giriraj Tailor. *Green synthesis and characterization of iron nanoparticles using Moringa oleifera (Leaves) and their phytochemical screening with biological significance****.*** Chemical Data Collections, 47, 101065, 2023.
9. **Jyoti Chaudhary**, Giriraj Tailor, Megha Yadav& Chesta Mehta. *Green route synthesis of metallic nanoparticles using various herbal extracts: A review.* Biocatalysis and Agricultural Biotechnology, 102692, 2023.
10. **Jyoti Chaudhary**, Monika Sharma and Giriraj Tailor, Synthesis and characterization of p-Nitro Aniline Formaldehyde resin nanocomposites,Chemical Science Transactions,2022.
11. Zaharaddeen Umara, Usman Rabiu Belloa, Ankita Mathura, Giriraj Tailor, **Jyoti Chaudhary**, Saurabh Singh, Modulation *of Bioﬁlm with synthesized silver nanoparticles from Azadirachta indica*, Current Research in Green and Sustainable Chemistry,2021.
12. **Jyoti Chaudhary,** Monika Sharma**,** *Novel thermal decomposition approach for the fabrication of Mn (II) and Zr (II) doped nanoparticles and studies their physical properties,*Journal of Advanced Scientific Research**,** 2020.
13. **Jyoti Chaudhary**, Monika Sharma, *Synthesis and structural analysis of zirconium nanoparticles using p- amino benzoic acid- formaldehyde resin****.*** Research Journal of Chemistry and Environment***,*** 2020.
14. **Jyoti Chaudhary,** Giriraj Tailor, Deepak Kumar, *Synthesis and Characterization of Chromium nanoparticles by thermal decomposition method****,***Material Today: Proceedings ,2020.
15. **Jyoti Chaudhary,** Giriraj Tailor, B.L. Yadav, Manoj Joshi, Chetana Suvalka***,*** *Green Synthesis of silver nanoparticles using Ocimum Canum and their anti-bacterial activity,* Biochemistry and Biophysics Reports,2020.
16. **Jyoti Chaudhary,** Sudha Joshi, *Synthesis, characterization and swelling behaviour of Guar Gum grafted Acrylamide-co-Hydroxyethyl methacrylate hydrogel.,*Journal of Advanced scientific Research,2020.
17. **Jyoti Chaudhary,** Giriraj Tailor, Deepshikha Verma, Bhupendra Kr. Sarma, *Microscopic study of zinc nanoparticles synthesised using thermosetting polymer,* Applied Microscopy**,** 2020.
18. **Jyoti Chaudhary,** Giriraj Tailor, Deepshikha Verma, Ravi Verma, *Synthesis and characterization of cobalt nanocomposite using aniline-formaldehyde resin,* Composites Communications, 2020.
19. Suman Jinger, **Jyoti Chaudhary**, Aruna Solanki, *Maleimide Copolymers of MMA / Styrene: Microwave -Preparation And Their Properties*, Materials Today: Proceedings, 29, 316-320, 2020.
20. Giriraj Tailor, **Jyoti Chaudhary**, Bhupendra Kr. Sharma, Deepshikha Verma,  *Comparative Structural Studies of the Silver and Nickel Nano Composites Synthesized by Chemical Methods,* Research Square, 2020.
21. Giriraj Tailor, **Jyoti Chaudhary**, Ajit Joshi, Deepshikha Verma, Osahon Michael, Antibacterial function of chromium nanoparticles against K. Pneumonia, E. coli. And P. typhus, Research Square, 2020.
22. **Jyoti Chaudhary**, Giriraj Tailor, Deepak Kumar, Deepshikha Verma, Ajit Joshi, *Synthesis and Characterization of Chromium Nanoparticles by Thermal Method*, Journal of Nanoscience and Technology,2019
23. **Jyoti Chaudhary**, Giriraj Tailor, B.L. Yadav, Oshon Michael, *Synthesis and biological function of Nickel and Copper nanoparticles,* Heliyon ,2019.
24. **Jyoti Chaudhary**, Suman Jinger Giriraj Tailor, *Conventional-Cum-Microwave Synthesis and Characterization of Polymeric Structures Of N-Substituted Maleimide*,IOSR Journal of Engineering (IOSR-JEN) ,2018
25. **Jyoti Chaudhary,** Suman Jinger, Supriya Dadhich,*Preparation of Engineering Material as Substituted Maleimide-Epoxy Resin: Thermal Characteristics and Mechanical / Chemical Reactivity of Cured Glass Composites,*International Journal of Scientific Research and Reviews**,** 2018
26. **Jyoti Chaudhary**, Suman Jinger, Swati Purohit, Giriraj Tailor,Studies *of thermal properties and effects of microbial strains on maleimide –metal composites with pendent substituted Azo-ligand,*Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences ,2018
27. **Jyoti Chaudhary,** Supriya Dadhich, Giriraj Tailor, Swati Purohit, Aruna Solanki, *Synthesis, characterization, thermal and mechanical properties of naphthalene containing alkyl substituted epoxy segments,*Research Journal of Chemistry and Environment,2018
28. **Jyoti Chaudhary,** Giriraj Tailor, Nalini Tomar, *Synthesis, Charecterization and studies of antimicrobial properties of copper nanocomposites*, Material Science: An Indian Journal,2018.
29. **Jyoti Chaudhary**, Suamanjinger, Supriya Dadhich*,Polymer Structures of N-[{4-(N’-Benzenesulphonicacid) Amino-Carbonyl} Phenyl] Maleimide: Synthesis, Thermal and Microbial Studies,*IOSR Journal of Applied Chemistry (IOSR-JAC**)**, 2018.
30. **Jyoti Chaudhary,** Giriraj Tailor, Sarvesh Kumar Shailesh, Suhail Afzal,*Synthesis, Structure and Thermal analysis of Silver Nanoparticles using Bakelite Composite*,Asian Journal of Chemistry, 2018.
31. **Jyoti Chaudhary**, Swati Purohit, Suman Jinger, Radha Chaudhary,*Radical Copolymerization of N-Substituted Maleimide and Acrylamide (AM)/ Acrylic Acid/ 2-Hydroxy Ethyl Methacrylate: Determination of Monomer Reactivity Ratios*,Journal of Scientific & Industrial Research,2017.
32. **Jyoti Chaudhary**, Supriya Dadhich, Suman Jinger, Radha Chaudhary *Synthesis and Characterization of Alkyl Substituted Vinyl Ester Resin, Asian* J. Research Chem, 2017.
33. **Jyoti Chaudhary,** Giriraj Tailor, Ajit Joshi1, A*Review: nanotechnology and forensic science,*World Journal of Pharmacy and Pharmaceutical Sciences**,**2017.
34. **Jyoti Chaudhary**, Supriya Dadhich, Suman Jinger, Swati Purohit, Giriraj Tailor, *Studies on Thermal Behaviours of Naphthalene Based Vinyl Ester Resins: Synthesis and Characterization*,International Journal of Chemical and Physical Sciences ,2017.
35. **Jyoti Chaudhary**, Swati Purohit, Suman Jinger1, *Studies on Heat Resistant Metal Composite of N-Substituted maleimide*,Chemical Science Transactions, 2017.
36. **Jyoti Chaudhary**, Swati Purohit, Supriya Dadhich, Radha Chaudhary*Copolymers of N-Substituted Maleimide with Acrylamide [AM]/ 2-Hydroxy ethyl methacrylate [OHEMA]: - Synthesis, Characterization and Thermal Behaviour,*International Journal of Chemical Engineering Research ,2017.
37. **Jyoti Chaudhary**, Swati Purohit, Radha Chaudhary,*Studies on Reactivity Ratio and Thermal Studies of Copolymers of N Substituted Maleimide with Vinyl Pyridine [VP]/2-Hydroxyethylmethacrylate [OHEMA]*, AsianJ. Research Chem, 2017.
38. **Jyoti Chaudhary,** Giriraj Tailor, Deepa Kumar, Ajit Joshi, *Synthesis and Thermal Properties of Copper Nanoparticles,*Asian Journal of chemistry,2017.
39. **Jyoti Chaudhary**, Supriya Dadhich, Suman Jinger, Giriraj Tailor,*Epoxy Based Vinyl Ester Resins: Synthesis and Characterization*, International Journal of Chemical Engineering Research,2017.
40. **Jyoti Chaudhary,** Suman Jinger, Swati Purohit, Chetna Panwar. *Bismaleimide-Sulphonamide Homopolymer and Copolymers: Synthesis, Characterization and Microbial Analysis*,Chemical Science Transactions 2017.
41. **Jyoti Chaudhary,** Suman Jinger, Swati Purohit, Supriya Dadhich, *Synthesis of Emulsion Copolymers of [4-N-Phenylethanamide azo-3-N-(4-nitrophenyl) maleimide, Styrene and Methyl acrylate*,International Journal of Chemical Engineering Research,2017.
42. **Jyoti Chaudhary**, Swati Purohit, Supriya Dadhich1, Radha Chaudhary*,Synthesis and Characterization of Maleimide-Epoxy Resins and Composites Formation*,Der Pharma Chemica, 2017.
43. **Jyoti Chaudhary,** Supriya Dadhich, Giriraj Tailor, *Preparation, Characterization and Thermal behavior of alkyl substituted epoxy resin*,International Journal of Engineering Science & Research Technology, 2017.
44. **Jyoti Chaudhary**, Giriraj Tailor, Deepak Kumar, Sarvesh Kumar and Shailesh,*Synthesis and structural study of nickel (II) Bakelite nanocomposite by x-ray diffraction,*International Journal of Metallurgical & Materials Science and Engineering (IJMMSE), 2016.
45. **Jyoti Chaudhary,**Suman Jinger, Swati Purohit, Harshada Joshi,*Studies on thermal, microbial behavior of Copoly (azo-maleimide-Acrylic acid/Vinyl acetate) and Terpoly (azo-maleimide-acrylic acid-vinyl acetate): synthesis and characterization*, Asian Journal ofChemistry, 2016.
46. **Jyoti Chaudhary**, Jinger, Swati Purohit,*Synthesis and Characterization of Copoly (Azo-Maleimide – Acrylonitrile / Vinyl Acetate) and Terpoly (Azo-Maleimide – Acrylonitrile – Vinyl Acetate): Studies on Influences of Reaction Feed Compositions on Thermal and Microbial Behavior,*American International Journal of Research in Formal, Applied & Natural Sciences (AIJRFANS), 2016.
47. **Jyoti Chaudhary**, Giriraj Tailor, S. K. Shailesh, D. Kumar, *Characterization Techniques used in Nanomaterials -A Review*, J. Environ. Nanotechnol, 2016**.**
48. **Jyoti Chaudhary,** Suman Jinger, Swati Purohit, *Polymer structures: studies on thermal and microbial reactivity of copolymers and terpolymers of [Azo-N-4-bromo phenyl] substituted maleimide chain with acrylates*, International Journal of Engineering Sciences & Research Technology, 2016.
49. **Jyoti Chaudhary**, Swati Purohit, Suman Jinger, Harshada Joshi, *Thermal and Microbial Studies of Copolymers of Acrylonitrile/ Acrylamide / Vinyl Acetate of N-Substituted Maleimide,*International Journal of Chemical and Physical Sciences, 2016.
50. **Jyoti Chaudhary**, Swati Purohit, Radha Chaudhary, *Copolymers of MA/EA/BA with N-substituted maleimide: synthesis, characterization and effect on the thermal properties,*International Journal of Engineering Science & Research Technology, 2016.
51. **Jyoti Chaudhary**, Giriraj Tailor1, Deepak Kumar, Mohammad Ashid and Ajit Joshi, *Synthesis and characterization of Zinc (II) Bakelite Nanocomposite*, RNT Journal of Current Discovery in Chemistry, 2016.
52. **Jyoti Chaudhary**, Narendra Pal Singh, Nirmala Jangid, Ritu Tomar, Paridhi Kataria, *Model Free thermal degradation kinetics of biobased phenolic resin derived from vanilline oxime,*Indian Journal of Chemistry-Section A, 2015.
53. **Jyoti Chaudhary**, Swati Purohit, Suman Jinger, *Radical homo and copolymerization of Maleimide with acrylic acid: effect of H-bonding on thermal resistant properties*, American International Journal of Research in Science Technology Engineering & Mathematics, 2015.
54. **Jyoti Chaudhary**, Swati Purohit, Suman Jinger, Rohini Trivedi, *Studies on Thermal and Microbial Resist PolyN- [(4-Chloro,2-(phenyl carbonyl) phenyl] maleimide: Synthesis and Characterization,*International Journal of Chemistry and Application, 2015.
55. **Jyoti Chaudhary,** Paridhi Kataria, *The Kinetics and Mechanism study of the oxidation of α amino carboxylic acid by Mn (III)*, International Journal of Chemistry and Application, 2014.
56. **Jyoti Chaudhary,** Kinetics and mechanism of oxidation of benzhydrol by 4-methyl pyridinium di chromate in acetic acid-water medium,International Journal of Chemistry and Application,2013.
57. **Jyoti Chaudhary**, *Synthesis, Characterization and Curing of Vinyl ester resin,*J. Environ. Nanotechnol*,* 2013.
58. **Jyoti Chaudhary**, Pooja Gupta, Paridhi Chandaliya, *Synthesis, characterization and glass reinforcement of halo-substituted epoxy-vinyl ester resins,*International Journal of New Innovation, 2013.
59. **Jyoti Chaudhary,***Mechanistic study of oxidation of aromatic aldehydes by Cr (VI) complex in acetic acid-water medium*, ISST Journal of Applied Chemistry, 2013.
60. **Jyoti Chaudhary**, Narendra Pal Singh Chauhan, *Synthesis, thermal and antimicrobial properties of copolymers derived from 2,4 dinitrophenylaminomaleimide and alkyl substituted acrylates*, Malaysian Polymer Journal, 2013.
61. **Jyoti Chaudhary,** Paridhi Chandaliya, Pooja Gupta, B.L. Hiran, *Novel Alkyl Substituted Epoxy Resins Containing Naphthalene Moiety,*American International Journal of Research in Science, Technology, Engineering & Mathematics (IASIR USA Journals), 2013.
62. Narendra P.S. Chauhan, Paridhi Kataria, **Jyoti Chaudhary,** Suresh C. Ameta, *Synthesis, characterization and thermal studies of terpolymers derived from vanillin, furfural and halo-substituted acetophenone*, International Journal of Polymeric Material, 2012.
63. **Jyoti Chaudhary**, Paka Ram Chaudhary, B.L. Hiran, *Synthesis and characterization of heat resistant poly (2,4dinitro (phenyl amino) maleimide-co-MMA) prepared by free radical*, Arpan Journal of science and technology, 2012
64. **Jyoti Chaudhary**, Narendra P.S. Chauhan, PakaRam Chaudhary, B.L. Hiran, *Thermal and microbial resistant polymers derived from Nitro phenylamino maleimide and Methyl methacrylate: Synthesis and characterization,*Oxidation communications, 2012.
65. B. L. Hiran, **Jyoti Chaudhary**, Suresh Meena, and Shiv Narayan Paliw*AIBN initiated free radical homopolymerization of N-(1-naphthyl) maleimide and copolymerization with MMA synthesis and characterization,*Journal of the Indian Chemical Society, 2008.
66. **Jyoti**[**Chaudhary**](http://www.refdoc.fr/?traduire=en&FormRechercher=submit&FormRechercher_Txt_Recherche_name_attr=auteursNom:%20%28CHOUDHARY%29),[Paliwal S. N.](http://www.refdoc.fr/?traduire=en&FormRechercher=submit&FormRechercher_Txt_Recherche_name_attr=auteursNom:%20%28PALIWAL%29),[Choudhary P. R.](http://www.refdoc.fr/?traduire=en&FormRechercher=submit&FormRechercher_Txt_Recherche_name_attr=auteursNom:%20%28CHOUDHARY%29), *Homo and copolymerization of N-(phenylamino) maleimide: Synthesis and Characterization,*Journal of the Indian Chemical Society, **2007**
67. B. L. Hiran, **Jyoti Chaudhary**, S. N. Paliwal, Suresh Meena, and P. R. Chaudhary, *Synthesis and Characterization of some new thermal stable polymer-Polymerization of N- [4-N’-(Benzylamine-carbonyl) phenyl] maleimide,*E-Journal of Chemistry, 2007.
68. B. L. Hiran, S. N. Paliwal, **Jyoti Chaudhary** and P. R. Choudhary, *Synthesis and Characterization and copolymerization of N-(phenylamino) maleimide with MMA,*E-Journal of Chemistry,2007.
69. [Hiran B. L.](http://www.refdoc.fr/?traduire=en&FormRechercher=submit&FormRechercher_Txt_Recherche_name_attr=auteursNom:%20%28HIRAN%29),[Paliwal S. N.](http://www.refdoc.fr/?traduire=en&FormRechercher=submit&FormRechercher_Txt_Recherche_name_attr=auteursNom:%20%28PALIWAL%29), **Jyoti** [**Chaudhary**](http://www.refdoc.fr/?traduire=en&FormRechercher=submit&FormRechercher_Txt_Recherche_name_attr=auteursNom:%20%28CHAUDHARY%29), [Meena Suresh](http://www.refdoc.fr/?traduire=en&FormRechercher=submit&FormRechercher_Txt_Recherche_name_attr=auteursNom:%20%28MEENA%29), *Preparation, polymerization and characterization of some new maleimides,* Journal of the Indian Chemical Society, 2007.
70. Hiran B. L., Malkani R. K., **Jyoti Chaudhary**, Amb B.K., Dangarh B. K., *Reduction of 3- Methyl pyridinium Bromochromate by Cs alcohol: A kinetic and mechanistic study,*Asian Journal of Chemistry, 2007.
71. Jawahar L. Jat, Dinesh Bhambi, **Jyoti Chaudhary.**, Talesara G.L., *Synthesis and antimicrobial activity of some new 6-amino 4-phenyl 1-(N-alkoxyphthalimido)3-methyl-1,4-dihydropyrano[2,3-c]pyazole-5carbonitrile derivatives in aqueous media*, Indian Journal of heterocyclic chemistry, 2006.
72. B.L. Hiran, Palak Verma, **Jyoti Chaudhary**, Vandana Joshi, *Studies on oxidation of tyrosine by pyridinium Bromochromate in the acetic acid-water mixture,*International Journal of Chemical Sciences, 2004.
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* **Academic Contribution:**
* **Convener,** National Conference on “Recent Trends in Polymer and Chemical Sciences (RTPCS)” organized by Department of Chemistry, University college of science, MLS University, Udaipur, **2024**.
* **Executive Committee Member** in Asian Polymer Association (APA), **2023**.
* **Session chair** in the National Conference on Recent Trends in Biotechnology, organized by the Department of Biotechnology, MLSU, Udaipur, **2023**.
* **Session chair** in the APA International Conference on Polymers for advanced technology, Goa, India, **2023**.
* **Convener,** 1st International Conference on: Recent advances in chemical sciences (ICRACS) -organized by Department of Chemistry, University college of science, MLS University, Udaipur, **2023**.
* **Convener,** One day seminar on Awareness programme: Gender Equality, Women’s safety and Rights-organized by Department of Chemistry,University College of science, MLS University, Udaipur, **2022**.
* **Convener**, Intellectual Property Rights-Patent, Design, Trademark, Copyright & Geographical Indication” (IPR) organized by Department of Chemistry, University College of science, MLS University, Udaipur, **2022**.
* **Convener,** Online One day Webinar on COVID-19: Awareness & Recent Advances, organized by the Department of Chemistry**,** University College of science, MLS University, Udaipur, **2021**.
* **Convener,** Webinar on Principles and Applications of NMR spectroscopy- A dance with Nuclei, organized by the Department of Chemistry**,** University College of science, MLS University, Udaipur, **2021.**
* **Convener,** International virtual Conference on “Frontiers in Chemical Sciences (IVCFCS)” organized by the Department of Chemistry**,** University College of science, MLS University, Udaipur, **2021**.
* **Convener,** Webinar on “Why Science” organized by the Department of Chemistry, University College of science, MLS University, Udaipur, **2020**.
* **Convener,** International webinar on Anandam: Mahakumbh of higher education of Rajasthan state**,** organized by Department of Chemistry in collaboration with Govind Guru Tribal University, Banswara and Brahma Kumari World Spiritual University, Mount Abu, **2020**.
* **Session chair** in Conference on the topic -Current Scenario in science and technology: facing the challenges and creating opportunities, MLS University, Udaipur, **2019.**