

## Dr. Princy Gupta



### ➤ Personal Data

<b>Gender</b>	Female
<b>Marital Status</b>	Married
<b>Languages Known</b>	English, Hindi, Dogri, Punjabi and Urdu
<b>Nationality</b>	Indian

**Address for Correspondence:** Dr. Princy Gupta, Senior Assistant Professor  
Department of Chemistry and Chemical  
Sciences, Central University of Jammu, Bagla,  
Rahya-Suchani, District Samba-181143, Jammu  
and Kashmir (India)

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**Contact no.** 09419870030

### ➤ Current Research Interests

Green Chemistry, Heterogeneous catalysis, Solid Acid Catalysis, Synthetic Organic Chemistry.

### ➤ Research Projects completed as PI

❖ **UGC-start up grant, 2018-2020 (10 lakhs)**

❖ **University start up grant from Central University of Jammu (2 lakhs)**

### ➤ Teaching Experience

❖ **July 2020-Present:** Senior Assistant Professor, Department of Chemistry and Chemical Sciences, Central University of Jammu.

❖ **22 July, 2016-July 2020:** Assistant Professor, Department of Chemistry and Chemical Sciences, Central University of Jammu.

❖ **August 2014-May 2015:** Worked in the department of Chemistry, Guru Nanak Dev University, Amritsar for one academic year.

❖ **August 2011-May 2013:** Worked in the Department of Chemistry University of Jammu, Jammu for 2 academic years.

### ➤ Academic record

**2008-2012**

**Ph.D. in the field of Solid Acid Catalysis from University of Jammu, Jammu**

**Thesis title:** Studies on the development of green procedures for acid catalyzed organic reactions.

<b>2007-2008</b>	<b>M.Phil in the field of Solid Acid Catalysis from University of Jammu, Jammu</b> <b>Thesis title:</b> Silica functionalized sulfonic acid catalyzed synthesis of biologically important heterocycles under heterogeneous conditions.
<b>2004-2006</b>	<b>M.Sc. (Gold Medalist) with specialization in Organic Chemistry from University of Jammu, Jammu</b>
<b>2001-2004</b>	<b>B.Sc. (Non-Medical) from University of Jammu, Jammu</b>

➤ **Summary of Research Work done at the doctoral level**

During Ph.D and M.Phil, I worked in the ambit of Green Chemistry working on heterogeneous catalysis using solid acids. I developed some useful synthetic methodologies and investigated the effect of coating of ionic liquid on solid acids to carry out reactions in water.

**Ph.D Research:** Synthesis of solid acids from biomaterials which include sulfonated carbon/silica composites; Lewis acid functionalized carbon/silica composites; and ionic liquid coated sulfonated carbon/silica composites. Sulfonated carbon/silica composites were used to catalyze protection of aldehydes as 1,1-diacetates, *N*-, *O*- and *S*-acylations, synthesis of 1,4-dihydropyridines, 2,4,5-trisubstituted imidazoles and 2-aryl benzimidazoles. Lewis acid functionalized carbon/silica composites were used for the synthesis of 3,4-dihydropyrimidin-2-(1*H*)-ones, 1,2,4,5-tetrasubstituted imidazoles and for the Michael addition of indole to  $\alpha,\beta$ -unsaturated ketones. Ionic liquid coated sulfonated carbon/silica composites were used to catalyze Knoevenagel condensations, reductive amination of aldehydes and ketones, and Michael addition of indole to  $\alpha,\beta$ -unsaturated ketones in water.

**M.Phil Research:** Application of silica functionalized sulfonic acid catalyst for synthesizing 4,5,8a-triarylhexahydropyrimido[4,5-*d*]pyrimidine-2,7(1*H*,3*H*)-diones, 6,6'-diaryl-4,4'-spirobi[hexahydropyrimidine]-2,2'-diones in liquid phase catalysis and 2-aryl-4,5-diphenyl-1*H*-imidazoles under solvent-free conditions.

➤ **Achievements/Awards/Fellowships**

- Qualified CSIR (NET) Examination in Chemical Sciences held on 21 June 2009.
- Secured First position (Gold Medalist) in M. Sc. Chemistry in Jammu and Kashmir State in 2006.
- Qualified DOEACC "O" LEVEL examination with "A" grade in 2005.
- Secured 3<sup>rd</sup> position in Jammu and Kashmir State in B.Sc. in 2004.
- Secured 14<sup>th</sup> position in Jammu and Kashmir State in the Matric examination in 1999.
- Life member of National Environmental Science Academy.
- Nomination of Dr. Princy Gupta as UGC SWAYAM Mentor by UGC SWAYAM Coordinator, Central University of Jammu for coordinating SWAYAM related activities in the Department of Chemistry and Chemical Sciences.
- Nomination of Dr. Princy Gupta as Assistant Director, Directorate of Physical Education, Central University of Jammu.

- Nomination of Dr. Princy Gupta as Academic Coordinator, Department of Chemistry and Chemical Sciences, Central University of Jammu w.e.f 20<sup>th</sup> February, 2020 to February 2023.
- Member of Board of Studies of the Department of Chemistry and Chemical Sciences w.e.f 11-03-2020.

➤ **Technical Skills**

**Practical Knowledge:** Efficient in Handling many Chemistry related instruments.

Well versed and proficient in handling computer software viz. MS Office, Chem Draw, Sci-Finder etc.

➤ **Research Guidance**

Ph.D ongoing: 3

Project Students: 49 (Guided, B.Sc. and M.Sc. Level)

➤ **List of Publications**

1. **Pawan Kumar, Bindu Syal, Pule Seboletswe, Nosipho Cele, Olofinsan, Parvesh Singh,\* Md. Shahidul Islam, Deepika Singh and Princy Gupta\***, Synthesis, Biological Evaluation, Molecular Docking and Kinetic Investigation of New 2,4,5-Trisubstituted Imidazole Derivatives as Antidiabetic Agents, *ChemistrySelect*, **2023**, 8, e202300924.
2. **Pawan Kumar and Princy Gupta\***, Halloysite-Based Magnetic Nanostructures for Diverse Applications: A Review, *ACS Appl. Nano Mater.*, **2023**, 6, 13824–13868.
3. **Bindu Syal, Pawan Kumar and Princy Gupta\***, Recent Advancements in the Preparation and Application of Copper Single Atom Catalysts, *ACS Appl. Nano Mater.*, **2023**, 6, 4987–5041.
4. **Princy Gupta, Pawan Kumar, Bindu Syal and Tahira Shamim**, Synthesis of 1,4-disubstituted-1,2,3-triazoles using starch-functionalized copper (II) acetate as a recyclable heterogeneous catalyst in water, *Res. Chem. Intermed.*, **2022**, 48, 4601–4615.
5. **Pawan Kumar, Princy Gupta\* and Chandan Sharma**, Surface modified novel magnetically tuned halloysite functionalized sulfonic acid: Synthesis, characterization and catalytic activity, *Catal. Sci. Technol.*, **2021**, 11, 3775-3786.
6. **Princy Gupta\*, Nayan Prakash, Yogeshwar Ramawat, Palvi Rajput, Amir Fayaz, Tapta Kanchan Roy**, Halloysite Nanotubes Functionalized Sulfonic Acid: Synthesis, Spectroscopic Characterization, Computational Studies and Application for the Synthesis of 1,4-Dihydropyridines, *Letters in organic chemistry*, **2022**, 19, 19-27.
7. **Aman Mahajan\* and Princy Gupta\***, Coronavirus (COVID-19): Chemical entities of biological interest, Mini reviews in medicinal chemistry, **2021**, 17, 2497-2506.
8. **Aman Mahajan and Princy Gupta\***, Halloysite nanotubes based heterogeneous solid acid catalysts, *New J. Chem.*, **2020**, 44, 12897-12908.
9. **Princy Gupta and Aman Mahajan**, Approaches for the development of potential dengue inhibitors, *Synth. Commun.*, **2020**, 50, 2250-2265.
10. **Aman Mahajan and Princy Gupta\***, Carbon based solid acids: A review, *Environ. Chem. Lett.*, **2020**, 18, 299-314.

11. **Princy Gupta** and **Aman Mahajan**, Sustainable approaches for steroid synthesis, *Environ. Chem. Lett.*, **2019**, *17*, 879-895.
12. **Princy Gupta** and **Aman Mahajan**, Shades of chemical beauty: An overview of synthetic routes to some anticancer drugs (Review), *Synth. Commun.*, **2017**, *47*, 16, 1415-1433.
13. **Princy Gupta\*** and **Aman Mahajan**, Green Chemistry Approaches as sustainable alternatives to conventional strategies in Pharmaceutical Industry (Review), *RSC Adv.*, **2015**, *5*, 26686-26705.
14. **Princy Gupta\*** and **Satya Paul**, Solid acids: Green alternatives for acid catalysis (Review), *Catal. Today*, **2014**, *236, Part B*, 153-170.
15. **Princy Gupta**, **Manmeet Kour**, **Satya Paul** and **James H. Clark**, Ionic liquid coated sulfonated carbon/silica composites: Novel heterogeneous catalysts for organic syntheses in water, *RSC Adv.*, **2014**, *4*, 7461-7470.
16. **Princy Gupta** and **Satya Paul**, Sulfonated carbon/silica composites: heterogeneous catalysts for the one-pot synthesis of Hantzsch 1,4-dihydropyridines, 2,4,5-trisubstituted imidazoles and 2-arylbenzimidazoles, *Curr. Catal.*, **2014**, *3*, 53-64.
17. **Princy Gupta** and **Satya Paul**, Sulfonated carbon/silica composite functionalized lewis acids for one-pot synthesis of 1,2,4,5-tetrasubstituted imidazoles, 3,4-dihydropyrimidin-2(1*H*)-ones and for Michael addition of indole to  $\alpha,\beta$ -unsaturated ketones, *J. Mol. Catal. A: Chem.*, **2012**, *352*, 75-80.
18. **Princy Gupta** and **Satya Paul**, Amorphous carbon-silica composites bearing sulfonic acid as solid acid catalysts for the chemoselective protection of aldehydes as 1,1-diacetates and for *N*-, *O*- and *S*-acylations, *Green Chem.*, **2011**, *13*, 2365-2372.
19. **Kamini Kapoor**, **Vivek K. Gupta**, **Rajnikant**, **Princy Gupta**, and **Satya Paul**, Crystal Structure of 2-(4-Chlorophenyl)-1,4,5-triphenyl-(1*H*)-imidazole, *X-ray Structure Analysis Online*, **2011**, *27*, 53-55.
20. **Navjot Jamwal**, **Ravinderpal Kour Sodhi**, **Princy Gupta** and **Satya Paul**, Nano Pd(0) supported on cellulose: A highly efficient and recyclable heterogeneous catalyst for the Suzuki coupling and aerobic oxidation of benzyl alcohols under liquid phase catalysis, *Int. J. Biol. Macromol.*, **2011**, *49*, 930-935.
21. **Princy Gupta**, **Vineet Kumar** and **Satya Paul**, Silica Functionalized Sulfonic Acid Catalyzed One-Pot Synthesis of 4,5,8a-Triarylhexahydropyrimido[4,5-*d*]pyrimidine-2,7(1*H*,3*H*)-diones under Liquid Phase Catalysis, *J. Braz. Chem. Soc.*, **2010**, *21*, 349-354.

#### **Book Chapters:**

1. **Book Title:** Medicinal Chemistry Approaches to Malaria and other tropical diseases  
**Editors:** Kelly Chibale  
**Chapter 3:** The hybrid antimalarial approach  
**Authors:** **Princy Gupta**, Lovepreet Singh and Kamaljit Singh  
**Page No:** 73-105  
**ISBN (print):** 978-012-8198-66-7  
**Publisher:** Elsevier Books, 2019
2. **Book Title:** Recent Developments in the Synthesis and Applications of Pyridines  
**Editors:** Parvesh Singh  
**Chapter 14:** Pyridine based probes and chemosensors  
**Authors:** Pawan Kumar, Bindu Syal and **Princy Gupta\***  
**Page No:** 445-503

ISBN (print):978-032-3912-21-1

Publisher: Elsevier Books, 2023

➤ **Articles in newsletter**

1. *RSC Adv.*, **2014**, 4, 7461-7470 publication has been highlighted in **Green Chemistry Network Newsletter (University of York) January, 2014.**
2. *Catal. Today*, **2014**, 236, Part B, 153-170 publication has been highlighted **Green Chemistry Network Newsletter (University of York) in May, 2014.**

➤ **Reviewer**

- Acted as Reviewer of *Indian journal of heterocyclic chemistry* research article in May 2021.
- Acted as Reviewer of *Research on chemical intermediates* research article in October 2020.
- Acted as Reviewer of *Current Organic Chemistry* review article in November 2018.
- Acted as Reviewer of *Applied Catalysis A: General* research article in September 2018.
- Acted as Reviewer of *Current Catalysis* review article in August 2017.
- Acted as Reviewer of *International Journal of Pure and Applied Chemistry* research paper in August 2017.
- Acted as Reviewer of *Medicinal Chemistry Research (international journal, Springer publication)* research paper in August 2017.
- Acted as Reviewer of *Journal of Medicinal Chemistry (international journal, ACS publication)* review article in December, 2016.
- Acted as Reviewer of *Journal of Organic Chemistry (international journal, ACS publication)* research paper.
- Acted as Reviewer of *Advances in Material Science and Engineering (international journal, Hindawi publication)* research paper.
- Acted as Reviewer of *Journal of Current Organic Chemistry (international journal, Bentham publishers)* review article.
- Acted as Reviewer of *Journal of Catalysis Letters (international journal, Springer publishers)* research paper.

**Resource person:**

- Resource person in Faculty Development Program organized by Department of Chemistry and Chemical Sciences from **26<sup>th</sup> October 2023 to 8<sup>th</sup> November 2023 (FDPCAS-2023).**
- Resource Person in Capacity building program in Chemistry for newly promoted lecturers on **13<sup>th</sup> September, 2022** organized State Council of Educational Research & Training (SCERT).
- Chaired a Technical Session in Two-day International Conference on “Recent Advances in Chemical Sciences” on **10<sup>th</sup> Jan-11<sup>th</sup> Jan 2022** organized by Deptt.

of Chemistry, Govt. College for Women, Parade Ground, Jammu in collaboration with Cape Comorin Trust, India.

- Co-Chaired a Technical session at National Conference on Emerging trends in Chemical Sciences (ETCS-2019) held from **14-15th March 2019**, organized by the department of Chemistry and Chemical Sciences, Central University of Jammu.
- Acted as Co-Convenor in Faculty Development Program organized by Department of Chemistry and Chemical Sciences from **26th October 2023 to 8th November 2023 (FDPCAS-2023)**.

➤ **Details of Conferences/Seminars attended at National/International Level**

1. **Princy Gupta, Monika Gupta and Satya Paul**, One-pot synthesis of Pyrimido[4,5-*d*]pyrimidines, Spirobi[pyrimidines] using SiO<sub>2</sub>-SO<sub>3</sub>H as heterogeneous and recyclable catalyst, presented in 3<sup>rd</sup> JK Science Congress held at University of Jammu, **26-28<sup>th</sup> Feb. 2008**.
2. **Princy Gupta and Satya Paul**, Silica functionalized sulfonic acid catalyzed one-pot synthesis of 2,4,5-trisubstituted imidazoles under solvent-free conditions, presented in 11<sup>th</sup> CRSI National Symposium in Chemistry, held at National Chemical Laboratory Pune, **6-8<sup>th</sup> Feb. 2009**.
3. **Princy Gupta, Manju Goyal and Satya Paul**, Sulfonated carbon-silica composites as novel heterogeneous catalysts for the synthesis of 1,1-diacetates from aldehydes, presented in 5<sup>th</sup> JK Science congress held at University of Jammu, **8-10<sup>th</sup> Feb. 2010**.
4. **Princy Gupta and Satya Paul**, Carbon/silica composites coated with ionic liquid for Knoevenagel condensation, presented in Conference on Green Chemistry “Newer challenges and sustainable development held at Govt. Degree college, Udhampur, **3-4<sup>th</sup> Dec. 2010**.
5. **Princy Gupta, Pooja Rasgotra, Monika Gupta and Satya Paul**, Amorphous carbon-silica composite sulfonic acids catalyzed one-pot synthesis of Hantzsch 1,4-dihydropyridines, 2,4,5-trisubstituted imidazoles and 2-arylbenzimidazoles, presented in International conference on emerging trends in chemistry held at the Department of Chemistry, Panjab University, Chandigarh, **11-12<sup>th</sup> Feb. 2011**.
6. **Princy Gupta** presented lecture on “Chemistry Our life, Our future” in seminar organised in the department of Chemistry, University of Jammu, **23<sup>rd</sup> March, 2011**.
7. **Princy Gupta, Seema Sahi, Manjulla Gupta, Manmeet Kour, Rajive Gupta and Satya Paul**, Novel sulfonated carbon/silica composite functionalized lewis acids for one-pot synthesis of 1,2,4,5-tetrasubstituted imidazoles, 3,4-dihydropyrimidin-2(1*H*)-ones and for Michael addition of indole to  $\alpha,\beta$ -unsaturated ketones, presented in Chemical Research Society of India, North Zone Meeting, held at University of Jammu, **22-24<sup>th</sup> Sept. 2011**.
8. **Princy Gupta, Rajive Gupta and Satya Paul**, Amorphous carbon-silica composites bearing sulfonic acid coated ionic liquid as a heterogeneous catalyst

for the Knoevenagel condensation in water, presented in 7<sup>th</sup> JK Science Congress held at University of Jammu, Jammu, **13-15<sup>th</sup> Oct. 2011.**

9. **Seema Sahi, Princy Gupta, RavinderPal Kour Sodhi, Pooja Rasgotra, Manmeet Kour, Madhvi Bhardwaj and Satya Paul**, Green Chemistry and catalysis for sustainable development, presented in International Conference on Global Warming, “The Biggest Challenge of 21<sup>st</sup> Century” held at Govt. degree college, Udhampur, **24-26<sup>th</sup> Feb. 2012.**
10. **Gupta Princy and Paul Satya**, Ionic liquid coated sulfonated carbon/silica composites catalyzed synthesis of 3-substituted indoles, presented in 3<sup>rd</sup> Biennial International Conference on New Developments in Drug Discovery From Natural Products And Traditional Medicines held at National Institute of Pharmaceutical Education and Research, Mohali, **22-24<sup>th</sup> Nov. 2012.**
11. **Seema Sahi, Princy Gupta, Indeeep kour and Satya Paul**, Aqueous phase one-pot synthesis of 2-arylbenzimidazoles using covalently anchored RuCl<sub>3</sub> onto imine functionalized silica, presented in 101<sup>st</sup> Indian Science Congress held at University of Jammu, **3-7<sup>th</sup> Feb. 2014.**
12. **Princy Gupta**, Comparative study of some carbon/silica composites, presented in 11<sup>th</sup> National Conference of the Indian Thermodynamics Society on “Advances in Chemical Sciences and Thermodynamics” held at University of Jammu on **2-3<sup>rd</sup> December, 2016.**
13. Certificate of Appreciation for organizing member National Science Day themed “Science and Technology for specially abled persons” in Central University of Jammu on **28<sup>th</sup> Feb. 2017.**
14. **Princy Gupta**, Solid acids as green alternatives for acid catalysis, presented in 12<sup>th</sup> JK Science Congress on Science and technology: Emerging trends and innovations held at University of Jammu on **2-4<sup>th</sup> March, 2017.**
15. Organizer in National Conference on “Materials for sustainable development and new technology” in Department of Nanosciences and Materials in Central University of Jammu on **28<sup>th</sup>, 29<sup>th</sup> April 2017.**
16. Member of Board of Studies, Department of Chemistry and Chemical Sciences, Central University of Jammu, **2016-2017.**
17. Member of Board of Studies, Department of Nano sciences, Central University of Jammu, **2017-2018.**
18. Participated in National Workshop on “Intellectual Property Rights” organized by University Business Incubation Centre, Central University of Jammu on **28<sup>th</sup>-29<sup>th</sup>, March 2017.**
19. Participated in Workshop on “Transacting Students’ Engagement for Rural Community Development” held at Central University of Jammu on **26<sup>th</sup> April 2017.**
20. Participated in National Conference on “Materials for sustainable development and new technology” held at Department of Nanosciences and Materials, Central University of Jammu on **28-29<sup>th</sup> April 2017.**
21. Participated in Two days Professional Development Programme on “Online Teaching, Learning and Assessment using Moodle MOOC Platform and Open Educational Resources” Organized by Central University of Jammu under SWAYAM on **15-16<sup>th</sup> September, 2017.**

22. Participated in Faculty Induction Training Programme/General Orientation Course organized by School of Education under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT) in collaboration with Faculty Induction Development Cell (FIDC), Central University of Jammu in line with provisions of UGC-HRDC held from **6<sup>th</sup> December, 2017 to 8<sup>th</sup> January, 2018** and obtained **Grade A**.
23. Organizing Member of National Science Day, organized by Central University of Jammu, Jammu during **Feb. 28<sup>th</sup>, 2018**.
24. *Participation*: One day Acquaintance Programme on Accelerator based Research, organized by Inter University Accelerator Centre (IUAC), New Delhi, held at Department of Physics and Astronomical Sciences, Central University of Jammu, Jammu during **March 26<sup>th</sup>, 2018**.
25. *Participation*: One day Workshop on World Health Day, organized by Central University of Jammu, Jammu during April 9<sup>th</sup>, 2018.
26. Member of Fancy Dress Competition of UDAAN Event organized by Central University of Jammu, Jammu during **11-13<sup>th</sup> April 2018**.
27. *Participation*: Inter-Disciplinary Refresher course on Online Teaching, Learning and Assessment” organized by Faculty Induction Development Cell (FIDC), Central University of Jammu in collaboration with UGC SWAYAM Cell, Central University of Jammu, Jammu in line with provisions of UGC-HRDC held from **25<sup>th</sup> May 2018 to 8<sup>th</sup> June 2018**.
28. *Participation*: One day NPTEL AWARENESS WORKSHOP, conducted by Indian Institute of Technology, Kanpur at Central University of Jammu, Jammu during **December 3<sup>rd</sup>, 2018**.
29. Organizing member of “Chem forum series” held on **25<sup>th</sup> Jan, 2019** organized by the department of Chemistry and Chemical Sciences, Central University of Jammu.
30. Organizing secretary for National Conference on Emerging trends in Chemical Sciences (ETCS-2019) held from **14-15<sup>th</sup> March 2019**, organized by the department of Chemistry and Chemical Sciences, Central University of Jammu.
31. *Participation*: Faculty Development Programme on “Entrepreneurship Development” sponsored by Entrepreneurship Development Institute of India, Gandhinagar, Gujarat under DST-NIMAT project organized by University Business Incubation Centre in collaboration with Faculty Induction Development Cell (FIDC), Central University of Jammu in line with provisions of UGC-HRDC for refresher course held from **20-05-2019 to 10-06-2019** and obtained Grade “A”.
32. *Poster Presentation*: Novel solid acids for catalysis Nayan Prakash, Palvi Rajput, Yogeshwar Ramawat and Princy Gupta\* in National Conference on Emerging Trends in Chemical Sciences (ETCS-2019) organized by department of Chemistry and Chemical Sciences, Central University of Jammu **14<sup>th</sup>-15<sup>th</sup> March, 2019**.
33. Participated in Two-Day International Webinar on COVID-19 and Emotional Wellness on **15<sup>th</sup> and 16<sup>th</sup> May, 2020** organized by School of Education, Central University of Jammu.
34. Participated in Two-day International Webinar on Climate change and Sustainable Agriculture held on **12<sup>th</sup> and 13<sup>th</sup> June 2020** organized by Botany Department, Central University of Jammu.
35. Participated in has participated in the IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to



promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from **28<sup>th</sup> April to 22nd May 2020**.

- 36.** Participated in National Webinar on “Self-Reliant India” organised by Centre for Comparative Religions and Civilizations, Central University on **14<sup>th</sup> July 2020**.
- 37.** Participated in Waste technology workshop organized by AICTE from **21 Dec to 25<sup>th</sup> Dec 2020**.
- 38.** Participated in seven days workshop on ICT tools in education organized by School of Education, Central University of Jammu from **Feb 1 to Feb 7 2021**.
- 39.** Paper Presentation: Cobalt Modified Nitrogen Doped Ceria based Single Atom Catalyst: Synthesis and Catalytic Evaluation Bindu Syal, Sakshi Panhotra and Princy Gupta\* in International Conference on Recent Advances in Chemical Sciences (RACS-2022) organized by Department of Chemistry and Chemical Sciences, Central University of Jammu, **10th-11th November, 2022**.
- 40.** Paper Presentation: Synthesis of 2,4,5-Trisubstituted Imidazole Motifs and their In vitro Antidiabetic Assessments with Kinetic Investigations Pawan Kumar and Princy Gupta\* in International Conference on Recent Advances in Chemical Sciences (RACS-2022) organized by Department of Chemistry and Chemical Sciences, Central University of Jammu **10th-11th November, 2022**.
- 41.** Paper Presentation: Heterogeneous Platinum and Palladium Single-Atom Catalysis, Aakriti Mahajan, Manvi Mahajan, Medhawani Dutt and Princy Gupta\* in International Conference on Recent Advances in Chemical Sciences (RACS-2022) organized by Department of Chemistry and Chemical Sciences, Central University of Jammu **10th-11th November, 2022**.
- 42.** Paper Presentation: Chitosan Based Metal Catalysts: Green Approach for Catalysis Sheetal Verma, Shivani Angral, Shivani Parothia, Shriya and Princy Gupta\* in International Conference on Recent Advances in Chemical Sciences (RACS-2022) organized by Department of Chemistry and Chemical Sciences, Central University of Jammu **10th-11th November, 2022**.
- 43.** Paper Presentation: Palladium immobilized on functionalized halloysite: An efficient catalyst for ligand free C-C coupling reaction, Pawan Kumar and Princy Gupta\* in International conference on Recent advances on Green and sustainable development held at Akal University **6th-8th September 2023**.