

FACULTY PROFILE PROFORMA

Title (Ms/Mr/Dr/Prof)	Dr.	First Name	Kapil Mohan	Last Name	Saini	Photograph
Designation	Assistant Professor					
Department	Chemistry					
Address (Official)	Official: Department of Chemistry, Kalindi College (University of Delhi), East Patel Nagar, New Delhi-110 008					
Phone No.	9650027457					
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Education						
Subject	Institution		Year	Details		
Chemistry	University of Delhi		2021	Ph.D.		
Chemistry	University of Delhi		2015	M.Sc.		
Chemistry (Hons.)	University of Delhi		2013	B.Sc.		
Career Profile						
Organisation/Institution		Designation		Duration	Role	
Kalindi College		Assistant Professor		April 2021 onwards	Teaching	
Shyam Lal College		Assistant Professor (Guest)		One Semester (2021)	Teaching	
Deshbandhu College		Assistant Professor (Guest)		2019-2020	Teaching	
Research Projects						
S.No.	Project Sanctioned Year		Funding Agency	Budget	Role as PI/ Co- PI	
1	2022		IOE	5 lakh	Co- PI	
2	2023		IOE	5 lakh	Co- PI	
3	2024		IOE	5 lakh	Co- PI	
4	2025		IOE	6 lakh	Co- PI	
Research Interests/Specialization						
<i>Novel Strategies for the Regioselective Synthesis of Carbocycles and Heterocycles by Tandem Cyclization</i>						
Administrative Assignments / Contribution to corporate life						
S.No.	Year	Nature of Activity	Designation	Period		
				From	To	
1.	2024-2025	Saamiyaana Committee in two-day National Conference organized by History department	Co-Convenor	3 rd Feb 2025	4 th Feb 2025	
2.	2024-2025	Stage Property, Annual Day	Co-Convenor	2024	2025	

3.	2024-2025	Committee for Feedback and Student Satisfaction Survey	Co-Coordinator	2024	2026
4.	2024-2025	National Institutional Ranking Framework (NIRF) Committee	Member	2024	2026
5.	2024-2025	IVORY band	Co-Convenor	2024	2025
6.	2023-2024	Committee for Consultancy and Internship	Member	2023	2024
7.	2023-2024	Website Committee	Member	2023	2024
8.	2023-2024	Alumni Committee	Member	2023	2024
9.	2023-2024	Canteen Committee	Member	2023	2024
10.	2022-2023	Lehren Committee	Member in Group Song	2022	2023
11.	2021-2022	Gandhi Circle Committee	Member	July 2021	2022
12.	2021-2022	Collaboration, Exchange Programs, Consultancy and Internship Committee	Member	July 2021	2022
13.	2020-2021	Gandhi Circle Committee	Member	2020	2021
14.	2020-2021	Collaboration, Exchange Programs, Consultancy and Internship Committee	Member	2020	2021

Research Guidance

Not Applicable

Publication (Peer Reviewed/Indexed Journals)

Total Research Articles Published in UGC/ SCI Journals: 19

Research Articles

1. "Hollow nanocages for enhanced photocatalytic carbon dioxide reduction: a promising approach for sustainable energy" Shruti, Kapil Mohan Saini*, Pooja Rana*; *Inorganic Chemistry Communications*, **2026**, 191, 117090. (I.F. 5.9)
2. "Photocatalysis without borders: Charting progress in metal-free hydrogen peroxide synthesis" Kapil Mohan Saini*, Kanika Solanki, Bhawna Kaushik, Pooja Rana; *Journal of Environmental Chemical Engineering*, **2024**, 12, 114425. (I.F. 7.5)

3. *Unleashing the photo catalytic potential of noble-metal-free heteroleptic copper complex-based nanomaterial for enhanced aza-Henry reaction*” Kapil Mohan Saini, Pooja Rana, Bhawna Kaushik, Kanika Solanki, Ranjana Dixit and Rakesh K. Sharma; *Nanoscale* **2023**, 15, 14007-14017. (I.F. 8.5)
4. *“Expedient Access to Polyaromatic Biaryls by Unconventional Ag-Catalyzed Cycloaromatization of Alkynylthiophenes and Au-Catalyzed Double C–H Activation”* **Kapil Mohan Saini**, Rakesh K. Saunthwal, Nicolas Grimblat, Abhinandan K. Danodia, Sushil Kumar, Vincent Gandon*, and Akhilesh K. Verma*, *Org. Lett.* **2022**, 24, 5018–5022. (I.F.: 6.1)
5. *“Tandem 6 π -Azatriene Electrocyclization of Fused Amino-Cyclopentenones: Synthesis of Functionalized Pyrrolo- and Indolo-quinoxalines”* **Kapil Mohan Saini**, Rakesh K. Saunthwal, Ankit Patel, and Akhilesh K. Verma, *Org. Lett.* **2021**, 23, 7586–7591. (I.F. : 6.1)
6. *Transition-Metal-Free Reverse Reactivity of (2-alkynyl)-Arylaldimines: Assembly of Functionalized Amino-Indinones”* **Kapil Mohan Saini**, Rakesh K. Saunthwal, Sushmita, and Akhilesh K. Verma, *Chem. Eur. J.* **2020**, 26, 1017–1021. (I.F. : 5.2)
7. *On Water: Metal-free Synthesis of Highly Functionalized Benzothiazolylidene from ortho-Haloanilines”* **Kapil Mohan Saini**, Rakesh K. Saunthwal, Shiv Kumar and Akhilesh K. Verma, *J. Org. Chem.* **2019**, 84, 2689–2698. (I.F. : 4.3)
8. *On Water: Iodine-Mediated Direct Construction of 1, 3-Benzothiazines from ortho-Alkynylanilines by Regioselective 6-Exo-dig Cyclization”* **Kapil Mohan Saini**, Rakesh K. Saunthwal, Shiv Kumar and Akhilesh K. Verma, *Org. Biomol. Chem.*, **2019**, 17, 2657-2662. (I.F. : 3.98)
9. *Pd-Catalyzed one-pot sequential cross-coupling reactions of tetrabromothiophene”* **Kapil Mohan Saini**, Rakesh K. Saunthwal and Akhilesh K. Verma, *Org. Biomol. Chem.*, **2017**, 15, 10289-10298. (I.F. : 3.98)
10. *TFA-Mediated One-Pot Synthesis of Furo-Fused Quinoxalines/ Pyrazines”* **Kapil Mohan Saini**, Sonu Kumar, Monika Patel, Rakesh K. Saunthwal and Akhilesh K. Verma, *Eur. J. Org. Chem.* **2017**, 3707–3715. (I.F. : 3.3)
11. *Synthesis of Cyclopentaquinolinone and Cyclopentapyridinone from ortho- alkynyl-N-arylaldimines via Super Base promoted C-N, C-O and C-C Bonds Formation”* **Kapil Mohan Saini**, Rakesh K. Saunthwal and Akhilesh K. Verma, *Org. Biomol. Chem.*, **2020**, 18, 5594-5601. (I.F. : 3.98)

12. *Dual Function of Carbon tetrachloride: Synthesis of Chlorinated Heterocycles*” Shiv Kumar, Rakesh K. Saunthwal, **Kapil Mohan Saini** and Akhilesh K. Verma, *Chem. Commun.*, **2019**, 55, 10721-10724. (I.F. : 6.1)
13. *Base-promoted synthesis of polysubstituted 4-aminquinolines from ynones and 2-aminobenzonitriles under transition-metal-free conditions*” Ankit Kumar, Pawan K. Mishra, **Kapil Mohan Saini** and Akhilesh K. Verma* *Adv. Synth. Catal.*, **2021**, 363, 2546– 2551. (I.F. : 5.98)
14. *Radical Promoted Synthesis of Furoquinolines via Anomalous Dakin-type Reaction*” Sushmita, Trapti Aggarwal, **Kapil Mohan Saini** and Akhilesh K. Verma*, *Adv. Synth. Catal.*, **2021**, 363, 4555-4560. (I.F. : 5.98)
15. *Ag(I)-Catalyzed Cycloisomerization Reactions: Synthesis of Substituted Phenanthrenes and Naphthothiophenes*” Rakesh K. Saunthwal, Abhinandan K. Danodia, **Kapil Mohan Saini**, and Akhilesh K. Verma, *Org. Biomol. Chem.*, **2017**, 15, 6934-6942. (I.F. : 3.98)
16. *Regioselective Preferential C-H Activation of α , β -Sterically Hindered 1,3-Dienes over [4+2] cycloaddition*” Rakesh K. Saunthwal, **Kapil Mohan Saini**, Monika Patel and Akhilesh K. Verma, *Tetrahedron*. **2017**, 73, 2415-2431. (I.F. : 2.5)
17. *Olefin-Oriented Selective Synthesis of Linear and Branched N-Alkylated Heterocycles via Hydroamination*” Sushmita, Trapti Aggarwal, **Kapil Mohan Saini** and Akhilesh K. Verma, *Eur. J. Org. Chem.* **2020**, 2020, 3312-3316. (I.F. : 3.3)
18. *Development of Heterogeneous photocatalysts by the covalent grafting of metal complexes onto various solid supports*” P Rana, B Kaushik, K Solanki, **Kapil Mohan Saini**, RK Sharma, *Chem. Commun.*, **2022**, 11354-11377. (I.F. 6.1)

Seminar/Workshop/Conferences Presentation/Organisation

- Poster Presentation in “30th CRSI National Symposium in Chemistry (CRSI-NSC-30), in Jawaharlal Nehru University held **on Feb 2 – Feb 5, 2023**.
- Participated in “International Conference on contribution of Jagadish Chandra Bose: A Satyagrahi Scientist” Organized by Vijnana Bharati and Ministry of Culture, Government of India in association with Indraprastha Vigyan Bharti and IUAC Delhi, held **on Nov 30 - Dec 1, 2022**.
- Oral Presentation in “International Conference on contribution of Acharya Prafulla Chandra Ray as a Chemist and Freedom Fighter” Organized by Vijnana Bharati and Ministry of Culture, Government of India in association with Indraprastha Vigyan Bharti and Department of Chemistry, University of Delhi, held **on August 2-3, 2022**.
- **Organizer:** International Conference on Recent Advances in Nano-Medical Sciences (RANMS-2022) at University of Delhi, Delhi, **on June 22-23, 2022**.
- **EXAM COORDINATOR** for National Level online Examination of **Vidyarthi Vigyan**

Manthan – India's Largest Science Talent Search for New India Using Digital Devices (VVM) 2021-22.

- **Organizer:** International Conference **J-NOST-2019** at University of Delhi, Delhi, **on Oct. 18-21, 2019.**
- **Poster Presentation** in International Conference on “Recent Advances in Nano-Medical Sciences” (**RANMS-2022**) at University of Delhi, Delhi, **on June 22-23, 2022.**
- **Organizer:** Two day Intra-college departmental fest – “**UTSAV – The ages of luminous**” under the aegis of **BIOCENOSIS – The BIOCHEMICAL SOCIETY** of Kalindi College, University of Delhi on April 22-23, 2022.
- **Organizer:** Webinar on ‘Nadi Ko Jano’ by Nadi Ko Jano Abhiyan committee under the aegis of IQAC, Kalindi College on **29th January 2022.**
- **Staff Advisor:** Online an Intra College Event on Republic Day Celebration, under the aegis of Azadi ka Amrit Mahotsav, organised by **BIOCENOSIS The Biochemical Society** of Kalindi College, University of Delhi on **25th January 2022.**
- **Staff Advisor:** Oath Ceremony and Alumni Talk organised by **BIOCENOSIS The Biochemical Society**, of Kalindi College on 10 March 2022 in the academic session 2021-22. 4. Organizer: 16th National Youth Parliament competition organized by Ministry of Parliamentary committee of Kalindi College, University of Delhi, on **24th February 2022** in the academic session 2021-22.
- **Organizer:** Two days International E-Conference on “Revisiting Gandhian Perspectives on development” organized by Gandhi Study Circle, Kalindi College, University of Delhi and ICCR, New Delhi, **on 3rd and 4th September, 2021.**
- Participated in Webinar on “International Webinar on “Post-COVID challenges and opportunities for the Chemist” jointly organized by Indian Science Congress Association (Delhi Chapter) and Department of Chemistry, University of Delhi held on **28th December 2021**
- Participated in Webinar on ‘How to avoid Predatory Publishing? What Researchers can do’ organized by Research Committee, Kalindi College, University of Delhi under the aegis of IQAC held **on 24th July 2021.**
- Participated in Webinar on ‘Importance of Computational Approaches in Understanding Reaction Mechanisms’ organized by Department of Chemistry, Kalindi College, University of Delhi in celebration of Azadi ka Amrit Mohotsav **on 25th September 2021**
- Participated in “E-Content Development using Basic Tools” Organized by: E- Content Development Committee, Kalindi College, University of Delhi **on 27th September, 2021.**
- **Oral Presentation** in J-NOST-2019 at University of Delhi, Delhi, **on Oct. 18-21, 2019.**
- **Oral Presentation** in Recent Trends and advancements in Chemical Sciences - 2019 at University of Delhi, Delhi, **on March 29-31, 2019.**
- **Poster Presentation** in 6th ISNS World Congress on Nanomedical Sciences ISNSCON-2018 and Chemistry Biology Interface Synergistic in New Frontiers (CBISNF-2019) at Vigyan Bhawan, Delhi, **on January 7-9, 2019.**

- **Poster Presentation** in Conference Organised by NATIONAL ORGANIC SYMPOSIUM TRUST (JNOST-2018) at CSIR-Indian Institute of Chemical Technology, Hyderabad (IICT-Hyderabad), **on 28th Nov. - 1st Dec. 2018.**
- **Poster Presentation** in the 6th Biennial International Conference on “New Developments in Drug Discovery from Natural Products and Traditional Medicines” being organized at NIPER, SAS Nagar (Mohali), India. **(15th–17th November, 2018).**
- **Poster Presentation** in the International Conference on “ACS on Campus” being organized at Department of Chemistry, University of Delhi.
- **Poster Presentation** in International Conference on Emerging Trends in Drug Development and Natural-Products (ETDDNP-2018) at Department of Chemistry, University of Delhi, **on January 12-14, 2018.**
- **Poster Presentation** in Conference on Advances in Catalysis for Energy and Environment (CACEE-2018) at Tata Institute of Fundamental Research (TIFR), Mumbai, **on January 10-12, 2018.**
- **Poster Presentation** in Contemporary Facets in Organic Synthesis 2017 (CFOS-17) at Indian Institute of Technology Roorkee, India, **on December 22-24, 2017.**
- **Attended the International Seminar on “Effects of Pollution on Human Health”** Jointly Organised by Department of Chemistry, University of Delhi & Indian Academy of Biomedical Sciences (IABS), **on December 1st, 2017.**
- **Attended the Awareness Programme on “Intellectual Property Rights (IPR)”**, *jointly organized by Federation of Indian Chambers of Commerce & Industry (FICCI), Indian Patent Office, Government of India and University of Delhi*, **on 15th September 2017.**
- **Poster Presentation** in 53rd Annual Convention of the chemist being organized by Indian Chemical Society at GITAM University, Vishakhapatnam, India (27th –29th Dec, 2016).
- **Poster Presentation** in the 5th Biennial International Conference on “New Developments in Drug Discovery from Natural Products and Traditional Medicines” being organized at NIPER, SAS Nagar (Mohali), India. (18th–20th November, 2016)
- **Poster Presentation** in the CARBO-XXXI International Conference on “New Frontiers in Carbohydrate Chemistry and Biology” being organized at Department of Chemistry, University of Delhi, Delhi, India. (14st–16th November, 2016)

Awards & Distinctions

- Received **Sailife-NOST Best Thesis Award 2020** in JNOST-2020 held at IISc Bangalore.
- **Best Poster Award** in the 5th Biennial International Conference on “New Developments in Drug Discovery from Natural Products and Traditional Medicines” being organized at NIPER, SAS Nagar (Mohali), India. (18th–20th November, 2016).

- Received "**Dr. D. S. Bhakuni Award** (Young Scientist Award, Best Poster Award)" in 53rd Annual Convention of the chemist being organized by Indian Chemical Society at GITAM University Visakhapatnam-2016 (27th –29th December, 2016).
- Senior Research Fellowship **2018**
- Junior Research Fellowship **2016**

Public Service/ University Service/ Consulting Activity

Faculty Development Programme (FDP)/Refresher Course:

1. Participated and completed One Week (Online) Faculty Development Programme on “Modern scientific technologies – Ways to enhance research skills” organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, Delhi University during June 22 - 28, 2023.
- 2.
3. Participated and completed One Week (Online) Faculty Development Programme on “Modern scientific technologies – Ways to enhance research skills” organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, Delhi University during December 26 - 31, 2022.
4. Participated and completed One Week (Online) Faculty Development Programme on “New Reforms in Higher Education with reference to NEP 2020” organized by the Collaboration with Council for Teacher Education Foundation (CTEF), Delhi-NCR Chapter on 27/07/2022 - 02/08/2022.
5. Participated and completed One Week (Online) Faculty Development Programme on “Chemistry and Biology Interface for Scientific Transformations” organized by Mahatma Hansraj Faculty Development Centre, Hansraj College, Delhi University during on 25-30 July, 2022.
6. Participated and completed One Week (Online) Faculty Development Programme on “Applied Chemistry-A catalyst for Scientific transformation” organized by the Lavoisier’s association, Department of Chemistry, Faculty of Science, SGT University on 23/08/2021 - 28/08/2021.
7. Participated and completed in One Week (Online) Faculty Development Programme on “Emergence of Blockchain Technology and Cryptocurrencies” organized by the Institute of Information Technology and Management, Guru Govind Singh Indraprastha University, Delhi on 09/08/2021 - 14/08/2021.
8. Participated and completed in five-day online Faculty Development Program on "Recent Advancements in Science and Technology" organized by School of Basic and Applied Science, K. R. Mangalam University, Gurugram from 9-13 August, 2021.

9. Participated and completed One Week (Online) Faculty Development Programme on “ Research Methodology” organized by Kamla Nehru Mahavidyalaya, Nagpur from 2nd May, 2022 to 7th May, 2022.
10. Participated and completed One Week (Online) Faculty Development Programme on “Chemistry and Biology Interface for Scientific Transformations” organized by Mahatma Hansraj Faculty Development Centre, Hansraj College during 25th July, 2022 – 30th July, 2022.
11. Participated and completed One Week (Online) Faculty Development Programme on “New Reforms in Higher Education with Reference to NEP 2020” organized by K. R. Mangalam University, Gurugram during 27th July, 2022 – 2nd August, 2022.

Administrative/Examination Assignments

S. No.	Nature of Activity	Designation	Institution/Department	Period	
1.	Paper Evaluation	Evaluator	University of Delhi	December 2021	
2.	Paper Setter	Examiner	University of Delhi	April 2021	
3.	Paper Setter	Examiner	University of Delhi	January 2022	
4.	Paper Evaluation	Evaluator	University of Delhi	May 2022	
5.	Paper Setter	Examiner	University of Delhi	November 2023-2025	

Professional Societies Memberships

- 1. Life Member of Chemical Research Society of India (CRSI)**
- 2. Life Member of VIJANANA BHARATI (VIBHA)**

Dr. Kapil Mohan Saini