




FACULTY PROFILE

Department: Chemistry

1. Personal Details

NAME	Dr. Shikha Sharma	
DEPARTMENT	Chemistry	
DESIGNATION	Assistant Professor	
PHONE	8105614933	
EMAIL ID	shikha.sharma@jssaten.ac.in	
Date of Joining (JSSATEN)	06-11-2024	

2. Experience

Total Experience in Years	Teaching: 3 Years	Industry: -	Research: 1 Years
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3. Qualifications

Courses	Specialization	Year of award	Institution	University
B.Sc.	Chemistry	2012	St. Stephen's College	University of Delhi
M.Sc.	Chemistry	2014	Indian Institute of Technology IIT Roorkee	Indian Institute of Technology IIT Roorkee
Ph.D.	Organic Electronics	2020	Indian Institute of Science IISc Bangalore	Indian Institute of Science IISc Bangalore

4. Research & Publications

Papers Published in Web of Science indexed Journals	06	
Papers Published in SCOPUS indexed Journals	06	
Papers Published in other Journals	00	
Papers Presented in Conferences / Symposium	07	
Books / Book chaptersPublished	00	

5. Research Guidance

PhD Guide? Give field & University	Yes, Chemistry, Porous Organic Polymers for Environmental Remediation	University: Netaji Subhas University of Technology NSUT Dwarka, Delhi and JSS Academy of Technical Education, Noida
PhDs / Projects Guided	Ph.D. Guiding: 01 (One)	Projects at Master's Level: 05

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
Dr DS Kothari Post-Doctoral Fellowship	7.2 Lakhs x 3	September 2021	3Years	DST

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	Non-aqueous redox flow battery with Diketopyrrolopyrrole derivatives based redox active electrolyte	<p>Applicant: Indian Institute of Science;</p> <p>Sharma S.; Rathod S.; Aetukuri N.; Shukla A. K.; Patil S.</p> <p>IPTeL Ref No: CS-SSCU-2019-022</p> <p>Status: Granted</p> <p>Patent Certificate No.: 450702</p> <p>Filing date: 25/09/2020</p>

iii. Consultancy

Title of the work	Amount in Rs.	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
	Nil			

7. Awards Received

Awards	
1	Received “ Best presentation award ” in paper presentation held at IISc in 2016. The competition involved presenting research work and was judged on the basis of presentation skills and the quality of the research.
2	Awarded DST-INSPIRE scholarship for the academic year 2009-2014 (awarded to only top 1% students based on their performance at the National level)
3	Awarded KPMG scholarship in 2011 awarded to students with a consistent and strong academic track record of excellence
4	Stood 2nd rank in B.Sc. Chemistry (hons.) in Delhi University (DU) for year 2009-2012.
5	Awarded “ Ramesh Goel Memorial Prize ” in year 2010-2011 for being the best

6	<p>student in II year at St. Stephen's college, Delhi.</p> <p>Awarded "Sardar Hansa Singh Memorial Chemistry Prize" in year 2010-2011 at St. Stephen's college, Delhi.</p>
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8. Publications

i. International Journals

S l. N o .	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WO S/ Sco pus / Bot h	Imp act Fac tor	Publi sher
1	Enhanced Photocatalytic Degradation of Environmental Pollutants using A Triphenylamine-based Polymer: Synthesis, Characterization and Mechanistic Insights	Pritee, Pritee; Dhariwal, Neeraj; Yadav, Preety; Sharma, Shikha* , Thakur, Sanjeeve* [*Corresponding author]	<i>Langmuir</i>	2024 , 40 (49), 26007-26017	Bot h	3.7	ACS
2	Development of a Novel Pyrimidine based Hydroxy Azo-Polymer for the Selective Removal of Cationic Dyes	Pritee, Pritee; Sharma, Shikha* , Thakur, Sanjeeve* [*Corresponding author]	<i>Chemistry Africa</i>	2024 (Accepted)	Bot h	2.3	Sprin ger
3	Electrochemical Evaluation of Diketopyrrolopyrrole Derivatives for Non-	Sharma S. ; Rathod S. ; Yadav S. P. ; Chakraborty A. ; Shukla A.	<i>Chemistry : A European Journal</i>	2021 , 27, 1-10.	Bot h	3.9	Wiley -VCH

	aqueous Redox Flow Battery	K.; Aetukuri N.; Patil S					
4	Fermi Level Pinning Induced by Doping in Air Stable N-type Organic Semiconductor	Sharma S. ; Ghosh S.; Ahmed T.; Ray S.; Islam S.; Salzner U.; Ghosh A.; Seki S.; Patil S.	<i>ACS Applied Electronic Materials</i>	2020, 2 (1), 66-73.	Bot h	4.4	ACS
5	Inverted perovskite solar cells with air stable Diketopyrrolopyrrole-based electron transport layer	Sharma S. ; Sakai N.; Ray S.; Senanayak S. P.; Sirringhaus H.; Snaith H. J.; Patil S.	<i>Solar Energy</i>	2019, 186, 9-16.	Bot h	6.0	Elsevier
6	Synthesis and Characterization of Quinoidal Diketopyrrolopyrrole Derivatives with Exceptionally High Electron Affinities	Ray S.; Sharma S. ; Salzner S.; Patil S.	<i>Journal of Physical Chemistry C</i>	2017, 121, 30, 16088-16097	Bot h	3.3	Elsevier
7	Diketopyrrolopyrrole Based Derivative for Non-Aqueous Redox Flow Battery	Sharma S. ; Suman R.; Aetukuri N.; Shukla A. K.; Patil S.	<i>ECS Meeting Abstracts</i>	2019, 3, 449-449	NA	NA	Abstracts

ii. National Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
01							

iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Conference	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Published
01	Diketopyrrolopyrrole Based Derivative for Non-Aqueous Redox Flow Battery	Sharma S.; Suman R.; Aetukuri N.; Shukla A. K.; Patil S.	235 th ECS Meeting Symposium, Texas, Dallas	26 th to 30 th May 2019	NA	NA	NA
02	Presented at Review cum discussion meeting: Newton-Advancing the Efficiency and the Production potential of Excitonic Solar Cells (APEX)-II	Shikha Sharma	Advancing the Efficiency and the Production potential of Excitonic Solar Cells (APEX)-II, Brunel University, London	Oct 2015	NA	NA	NA
3	APEX meeting	Shikha Sharma	IISER Pune	Feb 2016	NA	NA	NA
4	Presented a brief review on Device development-Bulk heterojunctions	Shikha Sharma	DST-RCUK consortium on the 'Advancing the Efficiency and Production Potential of	Feb 2015	NA	NA	NA

			Excitonic Solar Cells (APEX)', IIT Delhi				
5	Presented poster entitled "Inverted Perovskite Solar Cells with Air Stable Diketopyrrolopyrrole-based Electron Transport Layer"	Shikha Sharma	International Workshop and Conference on Perovskite and Hybrid Photovoltaics (ICPHPV-2019), IIT Delhi	Feb 4 th -8 th 2019	NA	NA	NA
6	Presented poster entitled "Interplay between Stability and Diradicaloid character of Quinoidal molecules"	Shikha Sharma	International Conference on Advanced Materials for Emerging Technologies (ICAMET-2023) held at Department of Physics, NSUT Dwarka	4 th -6 th May 2023	NA	NA	NA

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
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1	Attended the Ten-Days “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC)	Malaviya Mission Teacher Training Centre, University of Allahabad	December 02, 2024 to December 11, 2024
2	Completed the Six-Days Online AICTE-Training & Learning (ATAL) Academy, Funded Faculty Development Programme (FDP) on “CHALLENGES AND INNOVATION IN DIFFERENT ENERGY STORAGE TECHNOLOGIES”	Department of Mechanical Engineering, JSS Academy of Technical Education, Noida	December 16, 2024 to December 21, 2024.
3	Attended the one day IPR awareness programme conducted online	IPR	3 Jan 2022
4	Attended INDO-German workshop on Renewable Energy (Organic Solar Cells) and Curriculum Innovation in Science Education	SSCU, IISc Bangalore	2017
5	Attended HORIBA Optical School held at JNCASR, Bangalore	JNCASR, Bangalore and HORIBA Scientific Group	22 nd May 2017 to 26 th May 2017

v. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
1	Organized and hosted the webinar on “ Career Prospects in Science ”	Department of Chemistry, NSUT, Dwarka	4-5 th Nov 2022	Co-Convener
2	Organized the International Conference on Advanced Materials for Emerging Technologies (ICAMET-2023)	Department of Physics, NSUT Dwarka	4 th -6 th May 2023	Technical Committee Member

vi. **Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP or any other sponsoring body)**

Sl. No.	Name of the workshop / Conference	Organizer	Date
	Nil		

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1				

10. Membership of Professional Bodies:

11. Any other information you will like to share about your professional experience

i. FDP attended

S.No.	Title of FDP	Venue & Date
1.	Successfully completed the Ten-Days “NEP 2020 Orientation & Sensitization Programme” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Malaviya Mission Teacher Training Centre, University of Allahabad	Online Mode December 02, 2024 to December 11, 2024
2	Successfully completed the Six-Days Online AICTE-Training & Learning (ATAL) Academy, Funded Faculty Development Programme (FDP) on “CHALLENGES AND INNOVATION IN DIFFERENT ENERGY STORAGE TECHNOLOGIES”	Online Mode December 16, 2024 to December 21, 2024

ii. Administrative responsibility	
1	Role as M.Sc course chairperson and involved in preparation of syllabus and curriculum at NSUT Dwarka during Dec 2021- Sep 2023.
2	Role as B.Tech course coordinator for preparation of syllabus and other academic activities at NSUT Dwarka during Dec 2021- Sep 2023.
3	Played role as time table coordinator at NSUT Dwarka during Dec 2021- Sep 2023.
4	Participated in design and establishment of modern M.Sc laboratory at NSUT Dwarka during Dec 2021- Sep 2023.
5	Involved in NBA accreditation for B.Tech and M.Sc. at NSUT Dwarka during Dec 2021- Sep 2023.

Dr. Shikha Sharma

Assistant Professor, Dept of Chemistry

JSS Academy of Technical Education, Noida