



FACULTY PROFILE

Department: Chemistry

1. Personal Details

NAME	Dr. Gunture	
DEPARTMENT	Chemistry	
DESIGNATION	Assistant Professor	
PHONE	9466567796	
EMAIL ID	gunture@jssaten.ac.in gunturkumar31@gmail.com	
Date of Joining (JSSATEN)	03-02-2025	

2. Experience

Total Experience in Years	Teaching: 00	Industry: - 00	Research: 1.2 Years
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3. Qualifications

Courses	Specialization	Year of award	Institution	University
B.Sc.	Physics Chemistry, Biology	2011	Raj Rishi Collage Alwar	University of Rajasthan
M.Sc.	Organic chemistry	2014	SMPG collage Mansarover Jaipur	University of Rajasthan
Ph.D.	Carbon Nanomaterial Chemistry	2021	Malaviya National Institute of Technology Jaipur	Malaviya National Institute of Technology Jaipur
Post-		2024	Chungnam National	Chungnam National

Doctoral			University Daejeon	University Daejeon, Republic of Korea
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4. Research & Publications

Papers Published in Web of Science indexed Journals	19	
Papers Published in SCOPUS indexed Journals	19	
Papers Published in other Journals	00	
Papers Presented in Conferences / Symposium	4	
Books / Book chapters Published	Book Chapters -01 Singh, A., Bhati, A., Gunture, Tripathi, K. M., & Sonkar, S. K., Nano-carbons in Agricultural Plants: Can be a Potential Nanofertilizer?. Nanotechnology in environmental science, Wiley, 2018, 153-190.	

5. Research Guidance

PhD Guide? Give field & University	Nil	Nil
PhDs / Projects Guided	Nil	Projects at Master's Level: 02

6. Grants

i. Funds Received (Projects)

Project Name	Grant Amount	Date of receiving the Grant	Duration	Grant issuing authority/ Body / Organization
Nil				

ii. Patents

Sl. No.	Title Details	Details of award of patent / Filed

Nil	
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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 “Best Poster Award”	Attended two days' international web conference on "Recent Trends in Chemistry and Environment" (RTCE-2021) organized by the Department of Chemistry, M.S.J. Govt. P.G. College, Bharatpur Rajasthan, India, during 5-6 March 2021.
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8. Publications

i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus /	Impact Factor	Publisher
1.	Biomass-Derived Multiatom-Doped Carbon Dots for the Photocatalytic Reduction of Cr(VI) and Precipitation of Cr(III)	Gunture, Lee, T. Y.	npj Clean Water	7, (132), 2024	Both	10.4	Nature Portfolio
2.	Biomass-derived sensor for selective detection of	Gunture, Lee, T. Y.	Journal of Environmental Chemical Engineering	12, (5), 2024	Both	7.4	Elsevier

	Fe(III) ions in non-aqueous environments						
3.	Biomass-derived multiatom-doped carbon dots for water sensing based on excited state intraparticle proton transfer in organic solvents	Gunture, Lee, T. Y.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	123, 124841, 2024	Both	4.3	Elsevier
4.	Non-Aqueous Onion like Nano-carbons from Waste Diesel-Soot used as FRET-based Sensor for Sensing of Nitro-phenols	Gunture, Garg, A. K., Aggarwal, R., Kaushik, J., Prajapati, R. K. and Sonkar, S. K.	Environmental Research	212,1133 08, 2022	Both	7.7	Elsevier
5.	Pollutant-Soot-Based Nontoxic Water- Soluble Onion-like Nano-carbons for Cell Imaging and Selective Sensing of Toxic Cr (VI)	Gunture, Dalal, C., Kaushik, J., Garg, A. K., and Sonkar, S. K.	ACS Applied Bio Material	3, (6), 2020	Both	4.6	ACS

6.	Pollutant-based onion-like Nano-carbons for improving the growth of gram plants	Gunture, Aggarwal, R., Garg, A.K., Kaushik, J., Sonkar, S.K.	Materials Today Chemistry	18, 100352, 2020	Both	6.7	Elsevier
7.	Pollutant Diesel Soot Derived Onion-like Nano-carbons for the Adsorption of Organic Dyes and Environmental Assessment of Treated Wastewater	Gunture, Kaushik, J., Garg, A. K., Saini, D., Khare, P., and Sonkar, S. K.	Industrial & Engineering Chemistry Research	59, (26), 2020	Both	3.8	ACS
8.	Soluble graphene nanosheets for the sunlight-induced photodegradation of the mixture of dyes and its environmental assessment	Gunture, Singh, A., Bhati, A., Khare, P., Tripathi, K. M., & Sonkar, S. K.	Scientific reports	9, (1), 2019	Both	3.8	Nature Portfolio
9.	Surface Adhered Fluorescent Carbon Dots Extracted from	Gunture, Kaushik, J., Saini, D., Singh,	New Journal of Chemistry	45, (43), 2021	Both	3.3	RSC

	the Pollutant Diesel Soot for Sensing Fe(III) and Hg(II) ions	R., Dubey, P. and Sonkar S. K					
10.	Thiourea-functionalized graphene aerogel for the aqueous phase sensing of toxic Pb(II) metal ions and H ₂ O ₂	Kaushik, J., Gunture, Tripathi, K. M., Singh, R., Sonkar, S. K.	Chemosphere	287, (2), 2021	Both	8.1	Elsevier
11.	Carbon Nanomaterials Derived from Black Carbon Soot: A Review of Materials and Applications	Saini, D., Gunture, Kaushik, J., Aggarwal, R., Tripathi, K. M., Sonkar, S. K.	ACS Applied Nano Materials	4, (12), 2021	Both	5.3	ACS
12.	Exploration of nano carbons in relevance to plant systems	Bhati, A., Gunture, Tripathi, K. M., Singh, A., Sarkar, S., & Sonkar, S. K.	New Journal of Chemistry	42, (20), 2018	Both	3.3	RSC
13.	Sunlight-induced photocatalytic	Bhati, A., Anand, S. R.,	ACS Sustainable Chemistry &	6, (7), 2018	Both	7.1	ACS

	degradation of pollutant dye by highly fluorescent red-emitting Mg-N-embedded carbon dots	Gunture, Garg, A. K., Khare, P., & Sonkar, S. K.	Engineering				
14.	Cadmium-Sulfide Doped Carbon Nanoflakes Used for Sunlight-Assisted Selective Photodegradation of Indigo Carmine	Garg, A. K., Dalal, C., Gunture, Sonkar S. K.	ACS ES&T Water	3, (6), 2023	Both	4.8	ACS
15.	Brightly fluorescent zinc-doped red-emitting carbon dots for the sunlight-induced photoreduction of Cr (VI) to Cr (III)	Khare, P., Bhati, A., Anand, S. R., Gunture, & Sonkar, S. K.	ACS Omega	3, (5), 2018	Both	4.6	ACS
16.	Antibacterial nitrogen-doped carbon dots as a reversible “fluorescent nanoswitch” and	Anand, S. R., Bhati, A., Saini, D., Gunture, Chauhan,	ACS Omega	4, (1), 2019	Both	4.6	ACS

	fluorescent ink	N., Khare, P., & Sonkar, S. K.					
17.	Sunlight-induced photoreduction of Cr (VI) to Cr (III) in wastewater by nitrogen-phosphorus-doped carbon dots	Bhati, A., Anand, S. R., Saini, D., Gunture & Sonkar, S. K.	npj Clean Water	2, (1), 2019	Both	10.4	Nature Portfolio
18.	Surface-passivated, soluble and non-toxic graphene nano-sheets for the selective sensing of toxic Cr (VI) and Hg (II) metal ions and as a blue, fluorescent ink	Aggarwal, R., Anand, S. R., Saini, D., Gunture, Singh, R., Sonker, A. K., & Sonkar, S. K.	Nanoscale Advances	1, (11), 2019	Both	4.6	RSC
19.	Upgrading of diesel engine exhaust waste into onion-like carbon nanoparticles for integrated degradation	Chowdhury, S.N., Tung, T.T., Ta, Q.T.H., Gunture, M Castro, M., Feller,	New Journal of Chemistry	45, (7), 2021	Both	3.3	RSC

	sensing in nano-biocomposites	J.F., Sonkar S.K.					
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ii. National Journals

Nil						
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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	Publisher
Nil							
National Conference							
Nil							

ii. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1.	International Conference on "Biochips for Translation"	The Korean Biochip Society,	15 th – 17 th November 2023
2.	Frontiers in Organometallics and Catalysis (FOMC-2021)	Department of chemistry, Malaviya National Institute of Technology, Jaipur, Rajasthan, India	20 th -22 nd January 2021
3.	Rethinking Science for sustainable development	Department of Chemistry, Rajdhani College, Dehli, India	20 th – 21 st April 2021
4.	Recent Trends in Chemistry and Environment" (RTCE-2021)	Department of Chemistry, M.S.J. Govt. P.G. College, Bharatpur Rajasthan, India	5 th -6 th March 2021
5.	Nano Forms of Carbon	Materials Research	19 th -23 rd March 2018

		Centre, MNIT, Jaipur, Rajasthan, India	
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iii. Workshops / Conference (Organized)

Sl. No.	Name of the workshop / Conference	Organized by	Date	Role
	Nil			

iv. 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
	Nil			

10. Membership of Professional Bodies:

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

Qualified: NET-JRF (2015), GATE (2016)

S. No.	Title of FDP	Venue & Date

ii. Administrative responsibility	

Dr. Gunture

Assistant Professor, Department of Chemistry

JSS Academy of Technical Education, Noida