




SLC (University of Delhi) Shyam Lal College



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Faculty Profile

Title	Dr.	First Name	Kanika	Last Name	Solanki	Photograph 
Designation	Assistant Professor					
Department	Chemistry					
Address	G-143 Second Floor, G Block, Preet Vihar, New Delhi-110092					
Email	kanika.solanki@shyamlal.du.ac.in					
Web-Page						

Educational Qualification

Degree	Subject	University/ College/Institution	Year
B.Sc.	Chemistry, Botany, Zoology, English, Environmental Studies, Computer Science	Govt. M.S. College for Women, University of Bikaner, Bikaner, Rajasthan	2007
M.Sc.	Chemistry	Govt. Dungar College, M.G.S. University, Bikaner, Rajasthan	2009
Ph.D.	Chemistry (Green and Analytical Chemistry)	M.G.S. University, Bikaner, Rajasthan	
NET	Chemical Sciences	CSIR	2009
GATE	Chemistry/Chemical Sciences	IIT	2010

Experience

	Name of the University/College/ Institute/Organisation	Designation & Status (Permanent/Ad-hoc)	From	To	Effective time period
Teaching	Govt. College of Engineering & Technology, Bikaner, Rajasthan	Lecturer, Contractual	07.08.2015	05.07.2016	11 months
	Govt. College of Engineering & Technology, Bikaner, Rajasthan	Lecturer, Contractual	02.08.2016	31.05.2017	11 months
	Govt. Engineering College, Bikaner, Rajasthan	Lecture, Contractual	24.07.2016	08.11.2017	4 months and 14 days
Research/ Corporate	Department of Chemistry, University of Delhi	Research Associate, Temporary	08.11.2017	30. 11.2020	3 years 22 days
	Department of Chemistry, University of Delhi	Research Associate, Temporary	09.12.2020	01.06.2023	2 years 6 months
	Rajasthan University of	SRF, Temporary	31.08.2010	31.03.2012	1 year, 7

A structurally engineered flower shaped magnetic hierarchical sorbent for rapid and selective uptake of Pb ²⁺ ions from water samples	. K. Solanki, S. Sharma, P. Rana, B. Kaushik, B., S. Yadav, R. Dixit, A. Gupta, A.V. Biradar and R. K. Sharma	Materials Chemistry Frontiers	2023			Shyam Lal College, University of Delhi		7.0
Unleashing the photocatalytic potential of a noble-metal-free heteroleptic copper complex-based nanomaterial for an enhanced aza-Henry reaction	P Rana, K. M. Saini, B. Kaushik, K. Solanki, R. Dixit and R. K. Sharma	Nanoscale	2023			Shyam Lal College, University of Delhi		6.7
Advanced metal oxide-based nanocatalysts for the oxidative synthesis of fine chemicals	R. K. Sharma R. Bandichhor, V. Mishra, S. Sharma, S. Yadav, S. Mehta, B. Arora, P. Rana, S. Dutta and K. Solanki	Material Advances	2023			GCNC, Department of Chemistry, University of Delhi, Delhi		5
Hierarchical 3-D Flower like Metal Oxides Micro/Nanostructures: Fabrication, Surface Modification, Their Crucial Role in	Kanika Solanki, Shivani Sharma, Sneha Yadav, Bhawna Kaushik, Pooja Rana,	Small	2023			GCNC, Department of Chemistry, University of Delhi, Delhi		15.0

Environmental Decontamination, Mechanistic Insights and Future Perspectives	Ranjana Dixit, R. K. Sharma							
Development of Heterogeneous photocatalysts by the covalent grafting of metal complexes onto various solid supports	P. Rana, B. Kaushik, K. Solanki, K. M. Saini, R. K. Sharma	Chemical Communications	2022			GCNC, Department of Chemistry, University of Delhi, Delhi		6.0
n-situ synthesis of 3-D hierarchical ZnFe ₂ O ₄ modified Cu ₂ S snowflakes: Exploring their bifunctionality in selective photocatalytic reduction of nitroarenes and methyl orange degradation	B. Kaushik, P. Rana, K. Solanki, D. Rawat, S. Yadav, P. Rana, D. R. Naikwadi, A. V. Biradar, R.K. Sharm	Journal of Photochemistry & Photobiology, A: Chemistry	2022			GCNC, Department of Chemistry, University of Delhi, Delhi		4.3
Unravelling the catalytic potential of a magnetic CoFe ₂ O ₄ /Cu-ABDC MOF composite in the sustainable synthesis of 2 H-indazole motifs	S. Yadav, R. Dixit, S. Sharma, S. Dutta, B. Arora, P. Rana, B. Kaushik, K. Solanki, and R. K. Sharma	New Journal of Chemistry	2022			GCNC, Department of Chemistry, University of Delhi, Delhi		3.3
Magnetically separable type-II semiconductor based	B. Kaushik, P. Rana, D. Rawat,	New Journal of Chemistry	2022			GCNC, Department of Chemistry, University of Delhi, Delhi		3.3

ZnO/MoO ₃ photocatalyst: a proficient system for heteroarenes arylation and rhodamine B degradation under visible light	K. Solanki, S. Yadav and R. K. Sharma							
Ingeniously designed Silica nanostructures as an exceptional support: Opportunities, potential challenges and future prospects for viable degradation of pesticides	R. K. Sharma, B. Kaushik, S. Yadav, P. Rana, P. Rana, K. Solanki and D. Rawat	Journal of Environmental Management	2022			GCNC, Department of Chemistry, University of Delhi, Delhi		8.7
Earth-Abundant Cobalt based photocatalyst: Visible light induced direct (Het) Arene CH arylation and CO ₂ capture	P. Rana, B. Kaushik, R. Gaur, S. Dutta, S. Yadav, P. Rana, K. Solanki, B. Arora, A. Biradar, M. B. Gawande, and R. K. Sharma	Dalton Transactions	2022			GCNC, Department of Chemistry, University of Delhi, Delhi		4.6
Precisely Engineered Type II ZnO-CuS based Heterostructure: A Visible Light Driven Photocatalyst for Efficient Mineralization of Organic	B. Kaushik, S. Yadav, P. Rana, P. Rana, K. Solanki, D. Rawat & R.K. Sharma	Applied Surface Science	2022			GCNC, Department of Chemistry, University of Delhi, Delhi		6.7

Dyes								
Nanoengineered Iron Oxide Based Sorbents for Separation of Various Water Pollutants: Current Status, Opportunities and Future Outlook	R. K. Sharma, K. Solanki, R. Dixit, S. Sharma, & S. Dutta	Environmental Science : Water Research & Technology	2021			GCNC, Department of Chemistry, University of Delhi, Delhi		5.0
Magnetic metal–organic framework composites: structurally advanced catalytic materials for organic transformation	S. Yadav, R. Dixit, S. Sharma, S. Dutta, K, Solanki, & R. K. Sharma	Materials Advances	2021			GCNC, Department of Chemistry, University of Delhi, Delhi		5.0
In situ hydroxyl radical generation using the synergism of the Co–Ni bimetallic centres of a developed nanocatalyst with potent efficiency for degrading toxic water pollutants	R.K. Sharma, B. Arora, S. Sharma, S. Dutta, A. Sharma, S. Yadav & K. Solanki	Materials Chemistry Frontiers	2020			GCNC, Department of Chemistry, University of Delhi, Delhi		7.0
Synthesis, Characterization and Antimicrobial Activity of Cobalt (II) Complexes with Pyrimidine derivatives	Rajaram, K. K. Verma, Kanika Solanki and N. Bhojak	Research Journal of Chemical Sciences	2016			GCRC, P.G. Department of Chemistry, Govt. Dungar College, Bikaner		
Microwave Assisted Synthesis, Characterization	K.K. Verma, P.S. Gupta,	World Journal of Pharma	2015			GCRC, P.G. Department of Chemistry, Govt. Dungar College,		

on and Antimicrobial Activities of few of Co(II) Thiosemicarbazones complexes	Kanika Solanki, N. Bhojak	cy and Pharmaceutical Sciences				Bikaner		
Microwave Assisted Synthesis, Spectral, and Antibacterial Investigations on complexes of Co(II) with Amide Containing Ligands	Rajaram, K.K. Verma, Kanika Solanki and N. Bhojak	International Journal of New Technologies in Science and Engineering	2015			GCRC, P.G. Department of Chemistry, Govt. Dungar College, Bikaner		
Applications of a Novel Green Adsorbent for Environmental Monitoring	Kanika Solanki, Khushbh u Sharma, Mamta Soni and N. Bhojak	International Journal on Engineering Technology and Sciences	2014			GCRC, P.G. Department of Chemistry, Govt. Dungar College, Bikaner		
Superovulatory responses and embryo recoveries in Rathi (Bos indicus) cattle with different doses of Follitropin-V	G. N. Purohit, Yogesh Barolia, Kanika Solanki, Pramod Kumar, Rajiv Joshi and J. S. Mehta	Theriogenology Insight	2013			Department of Veterinary Gynaecology and Obstetrics, College of Veterinary and Animal Science, Rajasthan University of Veterinary and Animal Science, Bikaner Rajasthan, India		0.95
Perspective of Fetal Dystocia in Cattle & Buffalo	Govind Narayan Purohit, Pramod Kumar, Kanika Solanki, Chandra Shekhar and Sumit Prakash	Veterinary science development	2012			Department of Veterinary Gynaecology and Obstetrics, College of Veterinary and Animal Science, Rajasthan University of Veterinary and Animal Science, Bikaner	154	0.29

	Yadav					Rajasthan, India		
Morphological Survival and Subsequent in vitro maturation of Denuded and Cumulus Compact Bubaline Oocytes Cryopreserved by Ultra Rapid Cooling	Govind Narayan Purohit, Vinoj Meena and Kanika Solanki		Journal of buffalo science			Department of Veterinary Gynaecology and Obstetrics, College of Veterinary and Animal Science, Rajasthan University of Veterinary and Animal Science, Bikaner	7	1.21
Effects of Vitrification on Immature and in vitro Matured, Denuded and Cumulus Compact Goat Oocytes and Their Subsequent Fertilization	Govind Narayan Purohit, Harikesh Meena and Kanika Solank		Journal of Reproduction & Infertility			Department of Veterinary Gynaecology and Obstetrics, College of Veterinary and Animal Science, Rajasthan University of Veterinary and Animal Science, Bikaner	35	1.55

Books and Chapters in Edited Volumes/Books published, and papers in National /International conference Proceeding per teacher during the Year

Title of Book/Paper/ Book Chapter	Publisher	National/International	Year
Environmental Chemistry	IGNOU	National/International	2021

Conference/ Seminar/ Symposium/ Workshop/ Presentation

Sr. No.	National/ International/state	Topic	Presentation/Attended /Resource Person	Date	Duration	Conferences
1.	National	National Seminar on Water: Science, Culture & Society	Resource Person	11-12 Jan. 2024	2 days	
2.	International	International Conference and Workshop on Twelve Principles of Green Chemistry and UN-SDGs	Paper/Poster presentation	9-10th November 2023	2 days	
3.	National	National Seminar on Institutional Preparedness & Quality Enhancement: Vision NEP 2020	Resource person	17-18 Aug 2023	2 days	
4	International	Chemistry World	Attended	7th	1 day	

		Webinar on Driving Battery Recycling Revolution		June 2023		
5.	National	National Seminar on Green Chemistry & Sustainable Practices for a better tomorrow	Resource Person	22th August 2022	1 day	
6.	National	National Seminar on Green Chemistry and Waste Water Management	Resource person	28th September 2022	1 day	
7.	State Invited Lecture	Green Chemistry and Green Methodologies for Environmental Remediation	Resource person	19th December 2022	1 day	
8.	International	International Workshop and Symposium on Green Chemistry & Technology (IWSGCT-22)	Resource person	22-24 December 2022	3 days	
9.	International	International conference on environment, water, agriculture, sustainability and health (EWASH-2022): Strategizing a greener future	Paper	12-13 January 2023	2 days	
10.	National	Chemistry Festival for Students and Teachers: Green Chemistry, Education Research and Practice	Resource Person	1st October 2022	1 Day	
11.	International	Chemistry World Webinar on How Polluting is Plastic?	Attended	25th October 2021	1 day	
12.	International	ACS Symposium Series on "Green Chemistry & Sustainable Development	Resource Person	24-25th November 2021	2 day	
13	International	Going Global Workshop on Green Chemistry Education Today for a Sustainable Tomorrow	Resource person	27th to 29th May 2022	3 days	
14.	International	59th Annual Virtual Eastern Analytical Symposium	Paper	16-19, Nov. 2020	3 days	
15.	National	Online FACULTY	Resource Person	16-20	One	

		DEVELOPMENT PROGRAM (FDP) “Interdisciplinary Approaches to Promote Sustainability Using Green Technologies (IASGT-2020)		September 2020	week	
16.	National	Groundwater Pollution, Remediation and Management	Attended	16th October 2020	1 day	
17.	National	National conference on Water Crisis, Public Health & Sustainable Solutions	Paper	21st - 22nd October 2019	2 days	
18.	International	ISNSCON-2018	paper	7th-9th January 2019	3 days	
19.	National	National Conference on Chemistry for Human Health and Environment	Resource Person	15th - 16th December 2018	2 days	
20.	International	Eastern Analytical Symposium and Exposition	paper	13th - 15th November 2018	3 days	
21.	International	International conference on Advances in Chemical Sciences and Allied fields of Science, Health, Education & Environment	Paper	8th - 10th March 2018	3 days	
22.	International	International Workshop and Symposium on Green Chemistry & Technology (IWSGCT-18)	Paper	15th to 17th October 2018	3 days	
23.	National	Disaster Management: Research objectives and Scientific Approach in National Seminar on Environmental Management and	Paper	8th – 9th Mar. 2017	2 days	

		Technology				
24.	National	National Conference on Emerging Trends in Engineering-2017	Paper	10th Feb 2017	1 day	
25.	International	104 th Indian Science Congress	Paper	3-7 Jan. 2017	5 days	
26.	National	Recent Trends in Sciences, Engineering & Management	Paper	21 Oct. 2016	1 day	
27.	International	BITERM-2016	Paper	15-17 April 2016	3 day	
28.	National	National Conference on Education & Entrepreneurship Development	Paper	15 Oct. 2016	1 day	
29.	National	Current Trends in Environmental Research” organized by Department of Environmental Science	Attended	28th Feb-2 March 2015	3 day	
28.	National	NCEEE-2014	paper	26- 27 April 2014	2 days	
29.	International	International Conference on Advances in Ecological Research	Paper	9-11th December 2011	2 day	
30.	International	Role of biotechnology in conserving biodiversity and livestock development for food security and poverty alleviation	Paper	29th-30th December 2010	2 days	
31.	National	National Workshop on NEP-2020: Model Curriculum in Physics Vision Towards Vishvaguru Through Bharatiya Languages	Attended	8-9 Feb 2024	2 days	<i>Workshops</i>
32.	National	Webinar on National Education Policy 2020 on the theme “Internship/Apprenticeship Embedded Degree Program” organized by Centre for Professional	Attended	03-02-2024	1 Day	

		Development in Higher Education (CPDHE), UGC - Malaviya Mission Teacher Training Centre (MMTTC), University of Delhi in collaboration with Daulat Ram College			
33.	National	One Day workshop on Green Chemistry	Resource person	9th - 10th March 2018	2 days
34.	National	Workshop on Recent Advances in Chemical Sciences	Resource person	23rd to 25th Jan 2017	3 days

Research Projects/ Innovation Projects (Major Grants/Research Collaboration)

S.No.	Title of the Project	Funding Agency	Status/Output

Research Guidance (Ph. D./ M. Phil.)

	No. of Ph.D. Students	No. of M.Phil. Students
Awarded		
Submitted		
Under Progress		

Fellowships/Awards /Distinctions/Recognitions

Year of Award	Name of the Fellowship/Award/ Distinction/ Recognition	Designation	Name of the Academic Bodies /Association	International /National/ State
2023	Best Poster Award	Assistant Professor	International Conference and Workshop On Twelve Principles of Green Chemistry And UN-SDGs, 9-10th November 2023, Green Chemistry Network Centre, Hindu College, University of Delhi	International
2019	Best Poster Award	Post Doctoral Fellow	National Conference on Water Crisis, Public Health &	National

			Sustainable Solutions	
2017	Young Scientist Award	Research Scholar/Faculty	104th Indian Science Congress	International
2017	Appreciation Award On Republic Day	Research Scholar/Faculty	District Administration Bikaner Collector & Magistrate	State Level
2014	Best Poster Presentation Award	Research Scholar	National Conference on Energy and Environmental Engineering (NCEEE-2014)	National
2014	Young Scientist Award	Research Scholar	4th International Science Congress (ISC-2014)	International

Incentive to the teachers who receive recognition/awards

State	National	International

Association with the Professional Bodies

	Name of the Organisation	Year
Membership	National Environmental Science Academy	Life membership (Since 2022)
Any Other	ACS	2021

Development of E-Learning Delivery Process/Material

S.No.	Title of the Module	Recognized by/Submitted at/ Delivered at any government setup

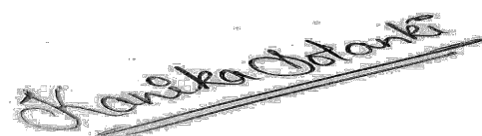
Refresher/ Orientation Programme/ FDP / Other Specialised Courses

S.No.	Topic	Name of the Organiser	Place	Duration and Year
1.	Faculty Induction/Orientation Programme	Teaching Learning Centre, Ramanujan College, University of Delhi	Virtual (online)	22-06-2023 to 21-07-2023
2.	Two-week Interdisciplinary Refresher Course on "Advanced Research Methodology"	Teaching Learning Centre, Ramanujan College, University of Delhi in collaboration with Gokul Das Hindu Girls' College (Affiliated to Agra University) Moradabad and Hindu College (M. J. P. Rohilkhand University, Bareilly) Moradabad	Virtual (online)	22-08-2023 to 05-09-2023
3.	"Pedagogical Imperatives for		University	01-12-2023

	Creating Quality Learning Environment for All: Faculty Induction Programme for Teachers in Higher Education”	University of Delhi	Sports Complex, Delhi	
4.	Online Faculty Development Programme on “NEP Orientation & Sensitization Programme”	Centre for Professional Development in Higher Education (CPDHE), UGC - Malaviya Mission Teacher Training Centre (MMTTC), University of Delhi	Virtual (online)	19-12-2023 to 29-12-2023
5.	FACULTY DEVELOPMENT PROGRAM (FDP) “Interdisciplinary Approaches to Promote Sustainability Using Green Technologies (IASGT-2020)	Department of HEAS, University College of Engineering & Technology, Bikaner	Virtual (online)	One week, September 2020
6.	Environment Protection and Sustainable Development”	National institute of technical teachers training and research (NITTTR), Chandigarh	Govt. College of Engineering & Technology, Bikaner, Rajasthan	One week, March 2010

Declaration

I do hereby solemnly declare that the information given and the statements made by me are correct and true to the best of my knowledge.



Dr. Kanika Solanki

Signature with Full Name