CURRICULUM VITAE

Dr. Pankaj Sen

Associate Professor, Assistant Dean (SOBAS), Coordinator Research (SOBAS) Department of Chemistry

Sangan University Bhilwara

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Vidwan ID - 581843

ABC ID - 900432754021

Mo. No. 91-7791994360

Academic Profile

"I am, Associate Professor Chemistry, Department of Chemistry, Assistant Dean School of Basic and Applied Science, Sangam University, Bhilwara, Rajasthan. I hold Ph.D. in water and wastewater treatment and nanotechnology. I am expert in the green synthesis of metal nanoparticles. I have 19 years of Experience in Teaching with a Specialization in Organic Chemistry, have not only taught but also has academic, and research field experience. I published more than 10 research papers in globally reputed journals, and 12 Patents have been granted and published at National and International levels. I have attended more than 15 workshops, and Seminars, and has presented many papers in national and international conferences, I am life member of the Indian Science Congress, and Indian Water Works Association."

Education:

• Ph.D.

Topic: Elucidation of Water Quality Parameters with Emphasis on Fluoride Content and its Removal by Natural Adsorbent University: Sangam University Bhilwara Year: 2023

• M.Phil

Topic: Analysis of water quality parameters of Deoli Tehsil Tonk

University: VMU Salem TN

Year: 2009

- M.Sc.
 Specialization: Organic Chemistry University: MDSU Ajmer
 Year: 2006
- B.Sc.
 Courses: Chemistry, Botany, Zoology University: University of Kota, Kota Year: 2004

Academic Appointments

- Associate Professor, Department of Chemistry, Sangam University Bhilwara, [2018 -Present]
- Assistant Professor, Department of Chemistry, Devkanya college Deoli [2016-2018],
- Lecturer, Department of Chemistry, The Imples College Lalsot Dausa [2015-2016]
- Directror, Harsh Coaching for Neet Jee Advance Deoli [2011-2014]
- Lecturer, Department of Chemistry Govt college Deoli [2008-2010]
- Lecturer, Department of chemistry, Alok science College Kekri [2006-2008]

Research Interests

- Water analysis, Soil analysis
- Water and Graywater treatment
- Nanotechnology
- Organic Synthesis

Publications

A. Research Paper Publication:

- ANALYSIS OF WATER QUALITY PARAMETERS OF SOMEVILLAGES OF DEOLI TEHSIL (TONK)VILLAGES OF DEOLI TEHSIL (TONK)VILLAGES OF DEOLI TEHSIL (TONK)VILLAGES OF DEOLI TEHSIL (TONK)Pankaj Sen* and Rajeev MehtaDepartment of Chemistry, Sangam University Bhilwara-311001, Rajasthan, (INDIA)E.mail :pankajsen deoli@rediffmail.comReceived: 1 September 2019 / 19 Revised: 21 September 2019 1 201 Accepted: Dec (PDF) Journal of Current Discovery in Chemistry |. Available from: https://www.researchgate.net/publication/350837868 Journal of Current Discovery in Chemistry [accessed Jan 29 2025].
- WASTE WATER TREATMENT OF SANGAM UNIVERSITY WITH THE HELP OF NATURAL FILTERS*Pankaj Sen and Rajeev MehtaDepartment of Chemistry, Sangam University, Bhilwara, RajasthanE-mail – pankaj.sen@sangamuniversity.ac.in Journal of Applied GeochemistryVol. 22, No. 4 (2020). 350-352 pp. (PDF) WASTE WATER TREATMENT OF SANGAM UNIVERSITY WITH THE HELP OF NATURAL FILTERS. Available from: https://www.researchgate.net/publication/355424613 WASTE WATER TREATMEN T OF SANGAM UNIVERSITY WITH THE HELP OF NATURAL FILTERS [accessed Jan 29 2025].
- IMPACT OF COVID-19 LOCKDOWN ON PHYSICOCHEMICAL WATER QUALITY PARAMETERS: TEXTILE CITY BHILWARA April 2021 sodth Sanchar bulletin Vol 10 issue 40 Oct. -Dec. 2020 page no. 44-52
- CHANGES IN GROUND WATER QUALITY OF TEXTILE CITY BHILWARA AFTER COVID-19 LOCKDOWNJournal of Applied Geochemistry Vol. 23, No. 3 (2021). pp. 214-218
- Water quality assessment of Banas River, eastern-south region of Rajasthan, using water quality indexDecember 2022<u>Proceedings of the Indian National Science</u> <u>Academy</u> 89(2), DOI: <u>10.1007/s43538-022-00145-7</u>

- Analysis of Groundwater Quality in Semi-arid Region of Eastern -South Rajasthan on the Basis of Water Quality Index (WQI), October 2024, DOI: <u>10.58825/jog.2024.18.2.112</u>
- Impact of Textile Dyeing Effluent on Soil Quality Parameters February 2025 DOI: <u>10.11648/j.ie.20250901.11</u>
- The Analysis of Water Quality Index with Study of the Effect of Textile Effluents on the Groundwater of Bhilwara City <u>Mahesh Kumar Singh</u>, <u>Pankaj Sen</u>^{*} <u>Shweta</u>

Dadheech, RajeevMehta, PreetiMehtaPublishedin ModernChemistry(Volume 13, Issue 1)Received: 10 February 2025Accepted: 24 February2025Published: 18March202510.11648/j.mc.20251301.112025

Synthesis and Characterization of Ether-Dimer Impurity of Drug - Ranolazine Using 2, 2'- (oxybis (methylene)) Bis (Oxirane) Nand Lal Mali Rajeev Mehta
 Preeti Mehta P, Pankaj Sen* Published in <u>American Journal of Applied Scientific Research</u> (Volume 11, Issue 2) Received: 9 March 2025 Accepted: 25 March 2025 Published: 29 April 2025

B. Patent Publication / Grant:

S.No.	Patent / Design Title	Name of Applicant(s)	Patent No.	National / International	Status
1.	Composition of activated charcoal of Hibiscus populneus and copper nano particles for removing fluoride from water	Dr. Pankaj Sen , Prof Rajeev Mehta, Pro. Preeti Mehta, Dr. Nirma Dhaker	202311051823A	National	Published
2.	Crab legs styled height- adjustable table	Dr. Pankaj Sen	395391-001	National	Granted
3.	A method of production of hydrogen gas from <i>prosopis juliflora</i> plant using dilute nitric acid	Dr. Pankaj Sen, Prof Rajeev Mehta, Pro. Preeti Mehta, Dr.Nirma Dhaker, Dr. Manoj Joshi	202311068634 A	National	Published
4.	Composition of green synthesized silver nanoparticles for removing contaminants from industrial Wastewater	Abhilasha Bhatt, Pro. Preeti Mehta, Prof Rajeev Mehta, Dr. Pankaj Sen , Nirma Dhaker,	202311072526 A	National	Published
5.	Precision gravimetric instruments for accurate capsule dosing in Pharmaceuticals	Dr. Pankaj Sen , Prof. Preeti Mehta	6322048	International	Granted
6.	Drug Waste Management Device for safe and efficient medicine Disposal	Dr. Pankaj Sen , Prof. Preeti Mehta, Nirma Dhaker, Abhilasha Bhatt	6329603	International	Granted
7.	Dual Tong: Modified Test Tube and Ignition Tube Holder	Dr. Pankaj Sen , Dr. Rajeev Mehta, Dr. Preeti Mehta	397261-001	National	Granted
8.	Evaporative watch glass	Dr. Preeti Mehta, Dr. Pankaj Sen , Dr. Rajeev Mehta	399218- 001	National	Granted
9.	Futuristic AI- Enhanced Air Purifier for Next-Generation Indoor Environmental Solutions	Dr. Pankaj Sen	6332516	International	Granted
10.	Piperidine – Based Anit-cancer Formulation	Nand Lal Mali, Dr. Pankaj Sen, Prof.	202411098792 A	National	Published

	Publication - 03/01/2025	Rajeev Mehta, Prof. Preeti Mehta			
11.	Green Synthesize Nanoparticle based system for Groundwater Quality Treatment and Monitoring Published- 03/01/2025	Shweta Dadheech, Dr. Pankaj Sen, Prof. Rajeev Mehta, Prof. Preeti Mehta	202411100375 A	National	Published
12	Method for green synthesis of Cu and Ni oxide nanoparticles using Syzygium cumini Leaf Extract for textile effluent treatment Publication – 31 January 2025	Mahesh Kumar, Dr. Pankaj Sen	202411098324A	National	Published

C. Books Publication:

Title of Book	ISBN No.	Publisher	Year
Drinking water Chemistry –	978-1-957302-18-8	walnut publication	2022
A Practical guide			
Basic Analytical Chemistry -	978-81-970242-4-5	SU Publication	2024
A Textbook			
Industrial Chemical and	978-81-970242-1-4	Su Publication	2025
Environment A Hand Book			

Conference Proceedings: Attended/paper presented in

Seminar/Symposium/Workshop etc.:

Title of paper	Details of Seminar/Symposium/W orkshop etc.	Organized by
Appreciation Certificate	National Conference on	School of Basic and
	Research & Innovation Trends	AppliedSciences, Sangam
	in Applied Sciences [NCRIAS18]	University,Bhilwara
Attend	National Conference on	School of Basic and
	Research & Innovation Trends	AppliedSciences, Sangam
	in Applied Sciences	University,Bhilwara
	[NCRIAS18]	
Attend	NPTEL Awareness workshop	IIT, Kanpur
Analysis of water quality parameter of	National Conference on	RNT P.G. College,
some village of Deoli Tehsil (Tonk)-	"Trends and Innovation in	Kapasan(Chittorgarh)
Published	Chemistry " (NCTIC -	
	2019)	
Analysis of Water Quality Parameters	International Conference on	Sangam University, Bhilwara
	Environmental & Climatic	
	Consequences: Challenges &	
	Mitigation Strategies	
Attend	Intellectual Property Right (IPR)	Mrs Susmita Samanta- At
	Seminar	Sangam University,
		Bhilwara

Attend	Series of Guest lecturers-	School of Basic and	
	2020 on outcome-based	ppliedSciences, Bhilwara	
	Education		
Attend	National Webinar on	Department of Botany,	
	"Sustainable Utilization	Govt.College, Bundi	
	ofHerbal Resources:		
	Conservation &		
	Challenges"		
Attend	International Webinar	S.D. Govt. College Beawar	
	on "Role of Teachers		
	inNational Building"		
Attend	International Webinar	Claire Francis	
	on Synthetic Organic		
	Electrochemistry:		
	Basic Concept and		
	Scale-up		
Attend	Seminar on National	Department of Mathematics,	
	Mathematics Day	Sangam University,	
	manomalice Day	Bhilwara	
Attend	Seminar on Trace Gases in	Department of Physics,	
	Atmosphere	SangamUniversity, Bhilwara	
Organizing Member(Session)	International	NIIT Ghana, BlueCrest	
	Conference on	University Liberia and	
	"Analytical and	SangamUniversity, Bhilwara	
	Interdisciplinary	Sangamoniversity, Dhirwara	
	Research" (ICAIR-		
	2021)		
Water Quality Assessment of Banas	International Conference on	School of Engineering &	
River, Eastern	Modern Approaches in	Sciences, GD Goenka	
-South Region of Rajasthan, Using	Sciences & Technology	University, Gurugram Sohna	
Water Quality Index	Presenting Date- 02/ 04/ 2022	Road, Gurugram, Haryana,	
Water Quality Index		India	
		India	
The Ancient IndianChemistry- 25-27	National Seminar on	School of Arts and	
April, 2022	Possibilities of Multidisciplinary	Humanities,Sangam	
	Research in Linguistics	University, Bhilwara	
	Literature- Best Paper Award		
Attend Nationalworkshop	Challenges before HEIs in	Sangam University Bhilwara	
	remote areas for achieving		
	quality improvement through		
	Assessment &		
	Accreditation process		
Paper Present	ICAIR - 2022	Sangam University Bhilwara	
Water Quality Assessment of Banas			
River, Eastern			
-South Region of Rajasthan, Using			
Water Quality Index			

paper present	Recent innovation in	MLSU Udaipur
Managing parameters and	biotechnological, chemical &	
mechanisms of groundwater quality	Environmental sciences	
variation in semi-arid region of eastern		
- south rajasthan: a health risk		
assessment of fluoride and water		
quality index (wqi) based strategy		
Attend two days National Seminar	15/9/2023 - 16/9/2023	Pacific University Udaipur
on Use of Hindi terminology in		
science- related subjects		
Organizing Secretory in International	20- 22 Dec. 2023	Sangam University Bhilwara
conference RTIAS 2024		
Attend Six days FDP on outcome-	16 – 20 Oct. 2024	Sangam University Bhilwara
based Education		5
Food committee In charge Six days	16 – 20 Dec. 2024	Sangam University Bhilwara
FDP on Indian knowledge system		
Oral paper presentation in 57 th	10 -12 Jan 2025	IWWA Raipur Center
IWWA Convention Raipur		Chhattisgarh
Chhattisgarh		

Grants & Funding

- For three days International Conference by SERB; Amount 200000; Year 2024
- For National Symposium on Patent filling (IPR) by DST Rajasthan;0.70 lakh; Year 2025

Supervision & Mentorship

- Supervisor of PhD students 6
- Supervisor of Master's students Research Peojects 15

Awards & Honors

- Best faculty Award 2019; 2020; 2021; 2022
- Research honorarium award by Sangam University Bhilwara- 2022; 2023; 2024; 2025
- Indian Education Award for outstanding achievement in education field 2023

Professional Memberships

• Life membership of Indian Science Congress

- Life Member, Indian water works association
- Member, Indian chemical society Kolkata

Editorial & Review Activities

• Reviewer for:

Journal of Global Ecology and Environment

International Journal of Environmental Chemistry

- Editorial Board Member International Journal of Environmental Chemistry
- Editorial Board Member World Journal of Applied Chemistry

Conference & Seminar Participation

- Session Organizing Member ICAIR 2022 Sangam University Bhilwara
- Resource Person in two-day workshop on CHEMDRAW hands on practics
- Organizing Secretary RTIAS 2024 Sangam University Bhilwara
- Invited Speaker, Indian Water Works Association Raipur: Jan 10-12 2025

Skills & Competencies

- Research Methodologies: Mixed method Research approach including Experimental Research, Analytical Research, and Environmental Engineering Research.
- Software & Tools: ANNOVA, WQI, CORELATION, CHEMDROW etc. & UV-Visible Spectro photo meter, pH meter, Conductivity meter, etc.
- Languages: Both Hindi and English

Personal Detail

- Name Dr. Pankaj Sen
- Mothers Name- SMT Manmoj Devi
- Fathers Name SH. Mahaveer Prasad Sen
- Spouse Name MS Sunita Sen
- DOB June15, 1985
- Hometown Deoli, Tonk Rajasthan 304804

Date: Place:

Dr. Pankaj Sen