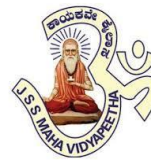




JSS Mahavidyapeetha


JSS Academy of Technical Education, Noida
Department of chemistry



FACULTY PROFILE

Department: Chemistry

Personal Details

NAME	Dr. Archana Singh	
DEPARTMENT	CHEMISTRY	
DESIGNATION	ASSISTANT PROFESSOR	
PHONE	9265293140	
EMAIL ID	Archu.svnit@gmail.com	
Date of Joining (JSSATEN)	01-03-2025	

Experience

Total Experience in Years:4.5	Teaching: 4.5	Industry: - Nil	Research: -3 Years (JRF in IIT-GN)
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Qualifications

COURSES	SPECIALIZATION		INSTITUTION	UNIVERSITY
Five Year Integrated M.Sc	Applied Chemistry	2013	Sardar Vallabhbhai National Institute of Technology Surat.	S.V.N.I.T- Surat
Ph.D	Organic Chemistry (Supramolecular Chemistry)	2020	National Institute of Technology Karnataka	N.I.T.K-Surathkal

Research & Publications

Papers Published in Web of Science indexed Journals	International: 12	National: 2
Papers Published in SCOPUS indexed Journals	NIL	NIL
Papers Published in other Journals	NIL	NIL
Papers Presented in Conferences / Symposium	NIL	NIL
Books / Book chapters Published	NIL	

Research Guidance- M.Sc Guided Student

1. Simple Colorimetric Receptors For Naked Eye Detection Of Biologically Important Fluoride, Acetate And Phosphate Anions In Organic And Aqueous Media Studied Using Spectroscopic Methods: Real Life Application (M.Sc project work, NISHITH UDDAMPADY from S. D. M. Postgraduate Centre (Autonomous), Ujire).
2. Effect of -NO₂ group on sensitivity of chromogenic chemosensors for detection of biologically important anions in aqueous medium: Insight in real life application (M.Sc project work, GIRISH GOWDA R, from S. D. M. Postgraduate Centre (Autonomous), Ujire).
3. Design And Synthesis Of Novel Colorimetric Anion Sensors For Naked Eye Detection Of Fluoride And Acetate Anions Based On Aminophenol (M.Sc project work, SILJA TOM, from St. Agnes College, Mangalore)
4. Design Synthesis & Characterisation Of A Novel Colorimetric Anion Sensor For Naked Eye Detection Of Fluoride And Acetate Anions Based On 5-Amino-2-Mercapto Benzimidazole (M.Sc thesis work, KARNA NAIR, Department Of Chemistry National Institute Of Technology Karnataka, Surathkal, Mangalore – 575025)

5. Chromogenic Selective Detection Of Sodium Fluoride anions In Aqueous Medium (M.Sc thesis work , Karishma Arya, Department of Chemistry Gautam Buddha University, Greater Noida).

Grants

Funds Received (Projects)

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

Patents

Sl. No.	Title Details	Details of award of patent / Filed
1	-	-
2	-	-

Consultancy

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

Awards Received

Awards	Synthetic, spectroscopic and structural chemistry (SSSC-2019)” conducted by Govinda Dasa College Surathkal, 15-16 March 2019 (First Prize in poster presentation)
“Best Paper Award”	Nation Conference On National Symposium On Environmental Pollution Prevention and Control: Further Perspective (EPPC:FP-2019) (First prize in oral presentation)

Publications

International 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
1	Chromogenic detection of fluoride, dihydrogen phosphate, and arsenite anions based on 2,4-dinitrophenyl hydrazine receptors: Spectral and electrochemical study	Nagaraj K; Archana Singh; A. Nityananda Shetty, Dr Darshak TRIVEDI	Supramolecular Journal Taylor and Frances,	-	SCI	2.7	Taylor and Frances,
2	Design and synthesis new colorimetric receptors for naked-eye detection of biologically important fluoride and acetate anions in organic and arsenite in aqueous medium based on ICT mechanism: DFT study and test strip application	Singh, A., Mohan, M., & Trivedi, D. R	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	225, 117522	SCI	4.7	elsevier
3	Design and synthesis of malonohydrazide based colorimetric receptors for discrimination of maleate over fumarate	Singh, A., Mohan, M., & Trivedi, D. R.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	229, 117883	SCI	4.7	elsevier

	and detection of F ⁻ , AcO ⁻ and AsO ₂ ⁻ ions.						
4	Spectroscopic studies of colorimetric receptors for detection of biologically important inorganic F ⁻ , AcO ⁻ and H ₂ PO ₄ ⁻ anions in organo-aqueous medium: Real-life application	Singh, A., Nishith, U., & Trivedi, D. R.	Inorganic Chemistry Communications	115, 107874	SCI	2.695	elsevier
5	Substituent effect on colorimetric detection of biologically and environmental y relevant anions: Insight in real-life applications	Singh, A., Gowda, R. G., & Trivedi, D. R.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy,	219, 517-529	SCI	4.7	elsevier
6	Chemosensor Based on Hydrazinyl Pyridine for Selective Detection of F ⁻ Ion in Organic Media and CO ₃ ²⁻ Ions in Aqueous Media: Design, Synthesis, Characterization and Practical Application.,	Singh, A., Mohan, M., & Trivedi, D. R.	ChemistrySelect	4(48), 14120-14131	SCI	2.4	weily
7	Aminophenol based colorimetric chemosensor for naked-eye	Singh, A., Tom, S., & Trivedi, D. R.	Journal of Photochemistry and Photobiology A: Chemistry	353, 507-520	SCI	5	elsevier

	detection of biologically important fluoride and acetate ions in organo-aqueous medium: Effective and simple anion sensors						
8	Colorimetric anion sensors based on positional effect of nitro group for recognition of biologically relevant anions in organic and aqueous medium, insight real-life application and DFT studies.	Singh, A., Sahoo, S. K., & Trivedi, D. R.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy,	188, 596-610	SCI	4.7	elsevier
9	Naked-eye' detection of biologically important anions in aqueous media by colorimetric receptor and its real life applications.	Singh, A., & Trivedi, D. R.	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy,	179, 95-103.	SCI	4.7	elsevier
10	Green synthesis of 1, 4-benzodiazepines over La ₂ O ₃ and La(OH) ₃ catalysts: possibility of Langmuir–Hinshelwood adsorption.	Singh, A., Palakollu, V., Pandey, A., Kanvah, S., & Sharma, S.	RSC Advances,	6(105), 103455 - 103462.	SCI	3.7	RSC
11	Study on thermo physical	Malek, N. I., Singh,	The Journal of Chemical	74, 103-118	SCI	3	elsevier

	and excess molar properties of binary systems of ionic liquids. I:[Cnmim][PF ₆](n= 6, 8) and alkyl acetates.,.	A., Surati, R., & Ijardar, S. P.	Thermodynamics				
12	Combustion synthesized La ₂ O ₃ and La(OH) ₃ : recyclable catalytic activity towards Knoevenagel and Hantzsch reactions.,.	Gangwar, B. P., Palakollu, V., Singh, A., Kanvah, S., & Sharma, S.	RSC Advances	4(98), 55407-55416	SCI	3.7	elsevier

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
1	Naked-eye detection of inorganic fluoride and acetate ion in an aqueous medium using organic receptor: Real life application	Singh, A., & Trivedi, D. R.	AIP Conference Proceedings	2142, No. 1, p. 190009	Scopus	1	AIP Conference Proceedings
2	Colorimetric detection of biologically important anion based on ICT Between Donor–Acceptor (D–A): Experimental	Trivedi, D. R., Singh, A., & Mohan, M.	International Journal of Photochemistry,	5(1), 49-56.	Scopus	1	International Journal of Photochemistry

	and DFT studies. International Journal of Photochemistry, 5(1), 49-56.						
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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
-	-	-	-	-	-	-	-

Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Schiff Base Colorimetric Chemosensor for the Detection of Biologically Important Anions". Paper presented in	"International Conference on Science & Technology: Further Challenge and Solutions (STFCS-2016)" Mysore	August 8-9,
2	Naked-Eye Detection of Bioactive Anion Colorimetric Anion Sensor: Insight Real Life Application". Paper presented	"International Conference on Crystal Ball Vision on Science & Engineering for Societal Upliftment"	August 7- 8, Goa.
3	Colorimetric detection of biologically important anion based on ICT Between Donor–Acceptor (D–A): Experimental and DFT studies"	"International Conferences on advanced materials, energy & environmental sustainability (ICAMEES-2018)"	14-15 December 2018, Dehradun
4	Design and synthesis of colorimetric anion chemosensor for naked-eye detection of biologically important fluoride and acetate ion.	national conference on "synthetic, spectroscopic and structural chemistry (SSSC-2019)"	15-16 March 2019, Govinda dasa collage
5	"Naked-eye detection of inorganic fluoride and acetate ion in an aqueous medium using	international conference on advance in basic science (ICABS19)	7-9, February 2019, GDC memorial collage, Bahal,

	Organic receptor: Real life application”		district bhiwani (Haryana) india.
6	Naked-eye detection of biologically important anions based on a new colorimetric receptors and its application in real sample analysis”	national conference on national symposium on environmental pollution prevention and control: further perspective (EPPC:FP-2019)”	23-25, August 2019.
7	“Synthesis and spectroscopic study of simple naked- eye colorimetric chemosensor for bioactive anions in organic and aqueous medium: Real- life application”	international conference on emerging advancement in science & technology& 10th India-Japan science & technology conclave	September 5-6, 2019 New Delhi.
8	Colorimetric anion chemosensor for naked-eye detection of biologically important fluoride and acetate ion in aqueous media.	International Conference on Molecules to Materials (MTM – 2021) organized by Department of Chemistry, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat-07, Gujarat	17-18th December 2021.

Workshops / Conference (Organized)

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

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

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

Details of NPTEL / COURSERA courses completed

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

Membership of Professional Bodies:

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Any other information you will like to share about your professional experience**WORKSHOP ATTENDED**

1. National workshop on “Nano-structural material and their application in catalysis & Fuel Cells” organized by Department of Chemical Engineering NITK Surthkal from September 29th- 1th, 2016.
2. Software and Application of Single Crystal X-Ray Diffraction, 29th– 31th August 2019 at Department of Chemistry, Smt. S.S.Patel Nootan Science& Commerce Colleage Visnagar, Dist- Mehsana,Gujarat- 384315.
3. National workshop on “Recent Advances in Material Chemistry (RAMC)” organized by Department of Chemistry NITK Surthkal on 26 Semptember 2019.