Curriculum Vitae

1. Name	**Dr. Surinder Kumar Mehta, FRSC**
2. Designation	Professor, Department of Chemistry Ex-Vice Chancellor, University of Ladakh Ex-Coordinator CRIKC, Local Coordinator GIAN Ex-Honorary Director, SAIF, PU Ex-Chairman, Dept. of Chemistry PU Ex-CAS Coordinator
3. Birth Place	Gurugram, Haryana
4. Address	**Residence:** H.No. 252, Sector 18, Panchkula, Haryana **Office:** Department of Chemistry & Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh – 160014 **(Tel)** 0172-2534423; (M) +91-9417786061, (M) +91-7657866626 **Email**: surinder.sk1961@gmail.com; skmehta@pu.ac.in
5. Academic Qualifications	M.Sc. (H.S), M. Phil, Ph.D. (Chemistry)
6. Record of service	Vice Chancellor (19 Aug. 2021-01 Feb. 2025) Professor of Chemistry since 2006 Chairman, Chemistry Department (01.11.2011-31.10.2014) Honorary Director SAIF (09.09.2015-23.12.2019)
7. Field of specialization in Teaching & Research	Physical Chemistry, Colloidal Chemistry; Nanochemistry; Drug delivery

8. Academic Distinctions/Honours

8.1 Foreign fellowships/visits:

Fellowship/Visit/Project	Location	Duration
DAAD fellowship	Stranski Institute, Berlin, Germany	June 1992-Sept. 1993
DAAD fellowship	Stranski Institute, Berlin, Germany	May-Aug.1999
Authors award by Royal Society of Chemistry UK	Clermont-Ferrand, France	Mid May - Mid June 2000
Sonderforschungsbereich (Sfb)	Stranski Institute, Berlin, Germany	Mid June - Mid July 2000
DAAD fellowship	Stranski Institute, Berlin, Germany	June-July 2003
JSPS fellowship	Kyushu University, Fukuoka, Japan.	May- Nov. 2006
DAAD Honorary Advisor	--	2006-2009
DAAD fellowship	Stranski Institute, Berlin, Germany	June-July 2007
Project Based Personal Exchange Programme (PPP)	StranskiLabor, TU Berlin	4 May-June 2, 2009
Project Based Personal Exchange Programme (PPP)	StranskiLabor, TU Berlin	27 April-May 23, 2010
India-Japan project	Kyushu University, Fukuoka, Japan	March 6-22, 2012
DAAD fellowship	StranskiLabor, TU Berlin	June 4-30, 2012
DAAD fellowship	Stranski Institute, Berlin, Germany	June-July 2015
DAAD fellowship	Stranski Institute, Berlin, Germany	May 27-June 07, 2016
Visit to	University of Hull, UK	Sept. 21-Oct. 7, 2016
Visit to	University of York, UK	March 25-27, 2017
DAAD Reinvitation Programme	Technische Universität Berlin	Sep.-Nov., 2022

8.2 Awards:

Research Scientist (A) award, awarded by the University Grants Commission, New Delhi, India (1990-1995)
CRSI Bronze medal 2012
Haryana Vigyan Ratna Award 2011-12
Prof. W.U. Malik Memorial Award 2015 by Indian Council of Chemists (ICC)
India UK Advanced Training School (IUATS) under Newton-Bhabha Fund 2016
STE Green Excellence Award 2020
Mahakaruna Award, Mahakaruna Foundation, New Delhi 2025

8.3 Special recognitions:

Recognition	Duration
DAAD Honorary Advisor	2006-2009
International Editorial Board Member, Materials Focus, American Scientific Publishers	-
International Editorial Board Member, Journal of Nanoengineering and Nanomanufacturing, American Scientific Publishers	-
Nominated member DST PAC in Physical Chemistry	2012-2014
Sectional President (Physical Section), 31st Annual Conference, Indian Council of Chemists	2012
Nominated member Subject Expert Committee on Chemical Sciences in DST FIST Program	2013-2016 2016-2019
Nominated member UGC Travel Grant Committee	2013
Nominated member UGC Expert Committee Major Research Projects	2014, 2015
Nominated member CSIR SRF/RA Selection committee	2015-2019
Editor-in-Chief, Panjab University Research Journal (Sciences)	2015-2019
Elected Zonal Secretary (North Zone) Indian Council of Chemists	2016-2018
Fellow Royal Society of Chemistry (FRSC)	2016- onwards
Nominated member of Selection Committee of WISTEMM program of KIRAN, DST	2018-onwards
Senate member, NIT Kurukshetra	2019- 2022
Nominated member DST "Water Technology Initiative Research, Technology and Innovation"	2019-onwards
Member UPSC, NET, JEE moderation and evaluation committees	2015-onwards
Ladakh State President of Microbiologists Society, India	2022-2023
Nominated member DST "PURSE"	2022-onwards
Nominated member National Medical Council (NMC)	2022-onwards
Nomination as a Non-official Member of G.B. Pant Society of Himalayan Environment and Development (GBPSHED)	2023-2026
Nominated member of DST Expert Committee on SSTP	2024-onwards
Among World's top 2% scientists declared by Stanford University	2021,22,23, 24
Ranked 8368 in the world and 100 in India among Best Scientists by Research.com	2024
Ranked in the top 0.05% of 30 million scholars worldwide by ScholarGPS	2022

9. Educational Qualification (In chronological from latest to Graduation Level)

S. No.	Qualification	University	Year	Subject(s)/ Topic (s)	%Marks obtained	Distinctions etc.
1	**Ph.D.**	Panjab University, Chandigarh	1987	Physical Chemistry	-	-
2	**M.Phil. (Chemistry)**	-do-	1983	Physical Chemistry	73	First Division with Distinction
3	**M.Sc. (H.S.) Chemistry**	-do-	1981	Chemistry	62	First Division
4	**B.Sc. (H.S.) Chemistry**	-do-	1980	Chemistry, Physics, Mathematics, English	61	First Division

10. Academic/ Teaching Experience (In chronological order from the latest to oldest)

S. No.	Post	Organization/ University	Duration		Experience (In Years & Months)
			From (Date)	To (Date)	
1.	**Professor**	Dept of Chemistry, PU	21.03.06	Till Date	19 Years
2.	**Reader**	-do-	21.03.98	20.03.06	8 Years
3.	**Lecturer**	-do-	01.02.95	20.03.98	3 Years 2 Months
4.	**UGC Research Scientist A**	-do-	28.11.90	31.01.95	4 Years 2 Months
5.	**Lecturer (Temp.)**	-do-	27.07.89	31.04.90	9 Months 3 Days
6.	**Lecturer (Adhoc)**	Dept. of Pharmaceutical Sciences, PU	09.09.87	06.05.88	7 Months 27 Days

11. Total experience of Teaching and Research:

Teaching	34+ years (undergraduate and post-graduate classes)
Research	37+ years

12. Membership of Learned societies and other academic bodies:

Life member of	
I	**Ultrasonic Society of India (USI)**
II	**Indian Society of Surface Science and Technology (ISSST)**
III	**Indian Council of Chemists (ICC)**
IV	**Chemical Research Society of India (CRSI)**
V	**American Nano Society (ANS)**
VI	**Royal Society of Chemistry**
VII	**Catalysis Society of India**
VIII	**National Association of Chemical Security (NACS) (Founding member)**

13. Position of Chair Held

S. No.	Name of Chair	Name of Agencies/ Departments involved	Period of holding the chair
1.	**Chairman**	Department of Chemistry, PU	01.11.2011-31.10.2014
2.	**Honorary Director**	Department of SAIF/CIL, PU	09.09.2015-23.12.2019
3.	**Coordinator**	Chandigarh Region Innovation and Knowledge Cluster (CRIKC)	2015-2021
4.	**Local Coordinator**	GIAN/MHRD-UGC	2015-2021
5.	**Coordinator**	UGC CAS-V/Chemistry	2015-2020
6.	**Vice Chancellor**	University of Ladakh	19.8.2021-01.02.2025

14. Participation in Summer Schools/Workshops/Refresher Courses/Orientation Course:

Summer school/workshop/refresher course	Location	Duration
Attended DST/UNESCO Regional workshop on low-cost Microprocessor systems in Science Education	IIT Kanpur	28th May - 10th June, 1990
Attended Refresher Course in Chemistry	Department of Chemistry and Academic Staff College, Panjab University, Chandigarh	8th Dec. 95 - 4th Jan. 96.
Attended Refresher Course in Chemistry organized by the	Department of Chemistry and Academic Staff College, Panjab University, Chandigarh	4th Oct.96 - 31st Oct.96.

15. A brief summary of research work, highlighting your major achievements:

Prof. Mehta has made noteworthy contributions in the fields of "Colloidal Chemistry," "Nanochemistry," and "Materials Science." His areas of interest include the fabrication of different nanostructures and assemblies for various types of applications such as solubilization enhancement, drug carriers, sensing of organic pollutants, and antimicrobial activities.

❖ *Fabrication & applications of nano particles*

Recently, Prof. Mehta has been actively engaged in the synthesis of nanosized semiconducting and metallic nanoparticles of versatile characteristics using polymers or colloidal templates employing environmentally benign solvent water and eco-friendly reducing agents. Some of them have been exploited as efficient electrocatalysts in fuel cells. Fabricated metal sulfide and oxide nano electrochemical sensors for hydrazine and cyanide ions are expected to revolutionize the world of sensors. Their use as catalysts in organic reactions and dye removal by sonic waves or their photodegradation is being investigated.

The combination of lanthanides and nanoparticles to develop new hybrid nanomaterials have become a highly topical area of research in field of sensing, biomedical imaging, drug delivery etc. Mehta's group works on the fabrication of the lanthanides and doped lanthanide nanostructures and its application in sensing of organic pollutants like para-nitrophenol, dyes etc. which is the major concern regarding environment health. A new direction in this lanthanide nanochemistry is its anti-microbial and anti-fungal activity leading to new magnetic luminescent antimicrobial agents. The focus is also on clean, eco-friendly, less expensive and biocompatible methods for the synthesis of nanoparticles *i.e.* synthesis of nanoparticles using plant extracts. Two different metal oxide nanoparticles *i.e.* MgO and Iron oxide nanoparticles using bud extract of clove have been synthesized. Further, the nanoparticles were used for potential applications in dye removal and sensing of heavy metal ions. This is one of the leading research groups in designing the transition metal ion decorated surfactants.

❖ *Solubilization enhancement and Drug carriers*

Some valuable contributions have been made for the solubility, stability and bioavailability enhancement of anti-tuberculosis and anti-cancer drugs and nutraceuticals by the synthesis of biocompatible nano-assemblies like nanoemulsions, solid lipid nanoparticles, polymeric nanoparticles etc. The formulations are expected to create a sound basis for the better management of the diseases making their treatment more viable and affordable. The antimicrobial potential of the various formulations loaded with nutraceuticals have also been explored to find a new line of defence against growing bacterial resistance. Further anti-cancer evaluations of the optimized formulations have beencarried out on various cell lines. In joint venture, investigations have been performed on microemulsions in the presence of several adjuvants such as organochalcogenides, heterocyclic, etc. which shed substantial light on their structure and properties.

❖ *Synthesis of novel metallosurfactants and complexes*

Another remarkable contribution is the design of novel metallosurfactants that can be engineered according to the requirement and their utility in the field of solubilization, as carriers and templates for nanoparticle synthesis. They hold a great promise for a wide variety of applications in engineering and chemistry. Successful efforts have also been made to synthesize novel Schiff bases and their use as selective turn-on and reversible fluorescent sensors for different metal ions.

❖ ***Protein-surfactant interactions***

Understanding the structural behavior aspects of proteins in the presence of surfactants is another area where good contribution has been made.

❖ ***Physicochemical aspects of liquid mixture***

An extensive and meticulous survey of thermophysical and spectroscopic features of mixtures of diols and amides in ionic liquids has been undertaken to gain insight into their structural and interactional behavior.

❖ ***Fabrication & Applications of Nanoparticles and 2D Materials***

Prof. Mehta's recent work has focused on synthesizing semiconducting and metallic nanoparticles with tailored properties using environmentally benign solvents and green synthesis approaches. His group has extended these studies to 2D materials, including Graphene, Transition Metal Dichalcogenides (TMDCs), Layered Double Hydroxides (LDH), Graphitic Carbon Nitride (gCN), Carbon Nanotubes (CNTs), and Halloysite Nanotubes (HNTs) leveraging their unique electronic and surface properties for applications in fluorometric and electrochemical sensing. Integrating 2D nanomaterials with hybrid nanostructures has enhanced sensor performance, offering improved sensitivity, selectivity, and stability. These sensors hold the potential to revolutionize environmental monitoring and safety assessment.

❖ ***Clean Energy: Oxygen Evolution Reaction, Hydrogen Evolution Reaction & Water Splitting***

Recognizing the urgency of clean energy solutions, Prof. Mehta's research has expanded into renewable energy, particularly the development of electrocatalysts for the oxygen evolution reaction (OER) and hydrogen evolution reaction (HER) in water splitting. His team has designed novel nanostructures incorporating 2D materials with metal sulfide and oxide to improve catalytic efficiency and promote sustainable hydrogen production. These materials are engineered to enhance electron transfer, optimize active sites, and improve stability, addressing key challenges in green hydrogen generation. By developing cost-effective and efficient catalysts, this work contributes to the global shift towards renewable energy and hydrogen-based fuel systems.

❖ ***Research Contributions in Biopolymer Coatings and Food Preservation***

Prof. S.K. Mehta with his current research group has significantly contributed to the development of advanced biopolymer-based coatings and nanocomposite films for food preservation. His research has led to innovative edible coatings incorporating starch, chitosan, and essential oils, which showed enhanced antimicrobial and antioxidant properties for extending the shelf life of fruits like plums and grapes. His work also explores sustained-release biopolymer films using microencapsulation techniques, improving barrier properties and bioactive retention. Additionally, he has authored influential high impact research articles in high impact journals, reviews and book chapters on polymer nanocomposites, discussing their environmental impact, health and safety considerations, and applications in food preservation. His research aligns with circular economy principles, focusing on sustainable food-based emulsions and films.

❖ ***Looking Ahead***

Prof. Mehta's research continues to push the boundaries of nanochemistry and material science, strongly emphasizing sustainability and real-world applications. From advanced sensors for environmental monitoring to catalysts for hydrogen production, his work shapes the future of clean energy, water purification, and biomedical technologies. By integrating cutting-edge nanomaterials with green chemistry principles, his research aims to develop innovative solutions for global challenges in health, energy, and the environment.

16. List of books, book chapters, monographs etc. published:

Sr. No.	Authors/co-Author/Editor	Title of Book	Chapter/Review article	Year	Publisher
BOOKS					
1.	**S.K. Mehta** and K. Kaur	***Influence of additives on microstructure of reverse micelles***	-	**2011** ISBN: 978-3-8433-9162-7	LAP LAMBERT Academic publishing GmbH and Co. KG
2.	**S.K. Mehta** and Gurpreet Kaur	***Entrapment of Anti-Tb Drugs in microemulsion assemblies***	-	**2010** ISBN: 978-3-8433-8719-4	LAP LAMBERT Academic publishing GmbH and Co. KG
3.	**S.K. Mehta** and Savita Chaudhary	***Self-assemblies of surfactants as solubilization reservoirs***	-	**2010** ISBN: 978-3-8433-5742-5	LAP LAMBERT Academic publishing GmbH and Co. KG
4.	B. Singh, A. Kaushik, **S.K. Mehta** and S.K. Tripathi	***Nanotechnology: Novel Perspective and Prospects***	-	**2015** ISBN: 978-93-392-2109-6	McGraw Hill Education (India) Pvt. Ltd.
5.	**S.K. Mehta** and Shweta Sharma	***Spectrum of Isothiocyanate Chemistry and its Applications***	-	**2021** ISBN: 978-1-53616-478-7	Nova Science, Inc. New York
6.	S.Singh, S.Sundaramurthy, A. Ibhadon, F. Khan, S. Kansal, **S.K.Mehta**	***Energy Materials*** A Circular Economy Approach		**2024** ISBN: 9781003269779	Taylor & Francis
BOOK CHAPTERS					
7.	**S.K. Mehta**, K. Kaur, G. Kaur and K. K. Bhasin	***Microemulsions: Properties and Applications***	Percolating phenomenon in microemulsions: Effect of external entity	**2008** ISBN: 978-953-307-544-0	Taylor & Francis
8.	**S.K. Mehta,** G. Kaur, K.K. Bhasin and N. Mehta	***Current Focus on Colloids and Surfaces***	Microemulsion systems as drug delivery vehicles: Recent developments	**2009** ISBN: 978-81-7895-438-7	Research Signpost
9.	**S.K. Mehta,** S. Sharma, N. Mehta and S.S. Cameotra	***Biosurfactants***	Chapter no. 8, Biomimetic Amphiphiles: Properties and Application Potential	**2010** ISBN: 978-1-4419-5978-2	Landes bioscience

10.	S. Cameotra, R.S. Makkar, J. Kaur and **S.K. Mehta**	***Biosurfactants***	Chapter no. 20, Synthesis of Biosurfactants and Their Advantages to Microorganisms and Mankind	**2010** ISBN: 978-1-4419-5978-2	Landes bioscience
11.	**S.K. Mehta** and Gurpreet Kaur	***Thermodynamics***	Microemulsions: Thermodynamic and Dynamic Properties	**2011** ISBN: 978-953-307-544-0	InTech
12.	**S.K. Mehta**, Savita Chaudhary, Sanjay Kumar	***Encyclopedia of Semiconductor Nanotechnology***	Nucleation and Growth of surfactant passivated semiconducting nanoparticles: Time dependent absorption and luminescence profiles	**2012**	American Scientific
13.	Savita Chaudhary, Shikha Lohanand**S.K. Mehta**	***Role of Metallic Nanoparticles in targeted drug delivery systems in Recent Developments inBiotechnology***	Role of Metallic Nanoparticles in targeted drug delivery systems in Recent Developments inBiotechnology	**2014** ISBN : 1-62699-053-0	Studium Press LLC, USA
14.	Vineet Kumar, S. K. Kansal and **S.K. Mehta**	**Recent Trends, Emerging Issues and Future Directions**	Toxicity of Nanoparticles: Present Scenario and Future Scope	**2014** ISBN: 978-1-63117-567-1	Nova Science, Inc. New York
15.	S. C. Sahoo, R. Kataria and **S.K. Mehta**	**Chemical Drug Design**	Copper and its complexes: Perspectives on biological role and pharmaceutical sciences	**2016** ISBN: 978-3-11-036882	De Gruyter
16.	Vineet Kumar, P. Guleria, and **S.K. Mehta**	***Nanoscience in Food and Agriculture 3. Sustainable Agriculture Reviews, Shivendu Ranjan et al. (Eds)Vol. 23***	Nanoparticles to Sense Food Quality	**2016** ISBN: 978-3-319-48008-4	Springer Nature
17.	S. Sood, A. Umar, Y. Wang, I.M. I. Ismail, **S.K. Mehta**, and S. K. Kansal	***Nanomaterials-Based Flexible and Multifunctional Sensors Edited by Eric Singh and Hari Singh Nalwa***	Graphene-Based Materials for Gas Sensor Applications	**2017** Pages: 1–61 ISSN: 1-58883-257-0	American Scientific Publishers

18.	Shweta Sharma, Ankush Parmar and **S.K. Mehta**	***Book: Grumezescu-V9-1631128 Chapter: CH016***	Hydrogels: from simple to smart materials—advances and applications	**2018 Pages: 627-672** ISBN: 978-0-12-813689-8	Elsevier
19.	Manjot Kaur, **S.K. Mehta**, S.K. Kansal	**Graphene Oxide Advances in Research and Applications**	Application of graphene oxide-based nanocomposites in heterogeneous photocatalysis for the treatment of organic contaminants	**2018** ISBN: 978-1-53614-168-9	Nova Science, Inc. New York
20.	Deepika Jamwal, **S.K. Mehta**, Dolly Rana, Akash Katoch	***Carbonaceous Composite Materials***	Graphene Oxide Composites and their Potential Applications	**2018,** *42, 111* ISBN-13: 978-1945291968	Materials Research Forum LLC
21.	Aashima and **S.K. Mehta**	***Handbook of Functionalized Nanomaterials for Industrial Applications Ed:***	Impact of functionalized nanomaterials towards the environmental remediation: Challenges and future needs	**2020** Pages: 505-524 ISBN: 978-0-12-816787-8	Elsevier
22.	Shivani Uppal, Aashima, **S.K. Mehta** and K. Kaur	***Nano-food Engineering***	Inclusion Complexation and Coacervation to Fabricate nano capsulated Foods	**2020** Pages: 97-123 **ISBN:** 978-3-030-44551-5	Springer
23.	Rohini Kanwar, Shivani Uppal, **S.K. Mehta**	***Functionalized Nanomaterials* II: Applications**	Solid Lipid Nanoparticles (SLNs) and Nanostructured Lipid Carriers (NLCs): Fabrication and Functionalization for therapeutic impending applications	**2021** Pages: 57-70 ISBN: 9781351021388	CRC Press
24.	A. Jain, S. Wadhawan, V. Kumar, **S.K. Mehta**	**Functionalized Nanomaterials II: Applications**	Functionalized Nanomaterials for Remediation and Environmental Applications	**2021** Pages: 115-128	CRC Press

25.	Rohini Kanwar, Jyoti Rathee, Amit Kumar, Neena Mehta, **S.K. Mehta**	**Coronaviruses**	COVID-19: Impact of Pandemic on SAARC Nations	**2021-**Pages 18-36 **ISBN:** 978-981-14-9894-7	Bentham Science
26.	**S.K. Mehta**, Ravneet Kaur	**Metallosurfactants: From Fundamentals to Catalytic and Biomedical Applications**	-	**2022** - Pages 288	John Wiley & Sons
27.	R Kanwar, A Kumar, J Rathee, **S.K. Mehta**	**Metallosurfactants: From Fundamentals to Catalytic and Biomedical Applications**	Metallosurfactants as Drug-Delivery Vehicles	**2022** Pages: 103-116	John Wiley & Sons
28.	R Kaur, N Mehta, **S.K. Mehta**	**Metallosurfactants: From Fundamentals to Catalytic and Biomedical Applications**	Metallosurfactants: A Surface and Interface Perspective	**2022** Pages 21-38	John Wiley & Sons
29.	R Bhar, **S.K. Mehta**	**Metallosurfactants: From Fundamentals to Catalytic and Biomedical Applications**	Metallosurfactants as Molecular Machines for the Preparation of Hybrid Silica-Based Porous Material	**2022** - Pages 117-134	John Wiley & Sons
30.	J Kaur, R Bhar, K Kaur, **S.K. Mehta**	**Metallosurfactants: From Fundamentals to Catalytic and Biomedical Applications**	Metallosurfactants as Nanoreactors for Nanoparticle Synthesis	**2022** - Pages 159-178	John Wiley & Sons
31.	K Arya, R Bhar, R Kataria, **S.K. Mehta**	**Green Nanomaterials for Industrial Applications**	Nanomaterials in the cosmetics industry: A greener approach	**2022**- Pages 207-253	Elsevier
32.	A. Jain, S. Wadhawan, **S.K. Mehta**	**Rapid Refrigeration and Water Protection**	Nanoparticles-Based Adsorbents for Water Pollutants Removal	**2022**- Pages 237-265	Springer

33.	A. Kumar, J. Rathee, **S.K Mehta**	**Industrial Applications of Nanoemulsion** Micro and Nano Technologies	Functionalization and industrial-scale fabrication of nanoemulsion with relevant application in pharmaceutical, food, and agricultural sector	**2024**, Pages 17-47 **ISBN 978-0-323-90047-8**	Elsevier
34.	H, Bansal, S. Singh, A. Ibhadon, **S.K.Mehta**	Circular Economy for Food-Based Emulsions and Films for Energy Materials	Energy Materials	**2024**, Pages ISBN: 9781003269779	Taylor & Francis
35.	N Kumar, S Singh, N Mehta, A Ibhadon, **S.K. Mehta** - Energy Materials	Sustainable Electrode Materials/Composites for Batteries and Fuel Cells for Achieving Supercapacitance and Environmentally Benign Mobility	Energy Materials	**2024**, Pages ISBN: 9781003269779	Taylor & Francis
36.	N Mehta, J Kaur, SS Cameotra, **S.K. Mehta**	Role of Science and Technology for Sustainable Future: Volume 2- Applied Sciences and Technologies	Biosurfactants: A Viable Approach Towards Environmental Sustainability	**2025, Pages 75-99 ISBN:** 978-981-97-5179-2	Springer Nature Singapore

17. Number of Post-doctoral/Research Associate/Ph.D./M.Sc.students supervised, supervision in progress

Name of Programme	Awarded (No.) (Under-progress not to be included)
Post-Doctoral/Research Associate	17
Ph.D.	54
M.Sc.	48
Trainees	28

(i) Post-doctoral/Research Associate

Name	*Tenure*
1. Dr. Kiran Bala, *RA*	01.04.1997-05.01-1999
2. Dr. Shweta Sharma, *RA*	09.02.2007-23.12.2008
3. Dr. Shweta Sacchar, *RA*	01.04.2007-23.03.2008
4. Dr. Khushwinder Kaur, *RA*	19.05.2010- 28.02.2012
5. Dr. Gurpreet Kaur, *RA+UGC Pdf Fellow*	01.04.2011- 23.11.2012

6. Dr. Savita Chaudhary, *RA+UGC Kothari Fellow*	01.04.2011-10.10.2012
7. Dr. Vineet Kumar, *UGC Kothari Fellow*	01.08.2013-16.08.2016
8. Dr. Harpreet Singh, *UGC Kothari Fellow*	04.07.2014-01.02.2016
9. Dr. Ravneet Kaur, *UGC Pdf Fellow*	01.02.2015-11.06.2016
10. Dr. Samita Thakur, *UGC Kothari Fellow*	10.10.2016-10.04.2017
11. Dr. Shweta Sareen, *N-Pdf SERB*	19.07.2017-00.08.2019
12. Dr. Vishal Muneja, *N-Pdf SERB*	01.08.2017-11.07.2019
13. Dr. Deepika Jamwal, *N-Pdf SERB*	22.09.2017-20.09.2019
14. Dr. Rajni Vashist, *RA (CSIR)*	03.10.2020 – 30.11.2023
15. Dr. Mani Mahajan, *UGC Kothari Fellow*	13.11.2021 – 10.11.2024
16. Dr. Gurbir Singh, *N-Pdf SERB*	18.02.2022 – 17.02.2024
17. Dr. Aashima Sharma, *RA (ICMR)*	06.02.2023-10.05.2024

(ii) List of Ph.D. scholars being supervised /supervising

Sr. No.	***Name***	***Title of thesis***	***Date of registration and present status***
1	**Kiran Bala**	INVESTIGATION AND CHARACTERISATION OF MICROEMULSION SYSTEMS	Ph.D. Awarded 1996
2	**Raj Kumar Chauhan**	CORRELATION BETWEEN TOPOLOGICAL ASPECTS AND ULTRASONIC VELOCITY OF LIQUID-LIQUID MIXTURES	Ph.D. Awarded 1999
3	**Kawaljit**	STUDY OF VOLUMETRIC AND TRANSPORT PROPERTIES IN MICROEMULSION	Ph.D. Awarded 2000
4	**Ashwani Sharma**	THERMODYNAMIC AND RELATED STUDIES OF MIXTURES OF SOLVENTS AND SURFACTANT IN SOLVENT	Ph.D. Awarded 2002
5	**Neelam Singh**	SOME ASPECTS OF THE CHEMISTRY OF ORGANOSELENIUM COMPOUNDS	Ph.D. Awarded 2007
6	**Shweta Sharma**	EFFECTS OF ADDITIVES ON THE INTERNAL DYNAMICS AND PROPERTIES OF MICELLES AND MICROEMULSIONS	Ph.D. Awarded 2007
7	**Ganga Ram**	STRUCTURAL AND INTERACTIONAL INVESTIGATION OF MIXTURES OF (BUTANDIOL)S IN NON-AQUEOUS SOLVENT IN THE ABSENCE AND PRESENCE OF ADDITIVES	Ph.D. Awarded 2008
8	**Shilpee Dham**	MOLECULAR COMPLEXATION OF DRUGS WITH CYCLODEXTRINS AND BIOLOGICAL SURFACTANTS: A THERMODYNAMIC AND SPECTROSCOPIC STUDY	Ph.D. Awarded 2009
9	**Khushwinder Kaur**	EFFECT OF ADDITIVES ON THE MICROSTRUCTURE AND PROPERTIES OF REVERSE MICELLES	Ph.D. Awarded 2010
10	**Gurpreet Kaur**	CHARACTERIZATION OF MICROEMULSIONS AS DRUG DELIVERY VEHICLES FOR LABILE AND POORLY WATER-SOLUBLE DRUGS	Ph.D. Awarded 2010
11	**Savita Chaudhary**	SURFACTANT ASSISTED SYNTHESIS OF METALLIC NANOPARTICLES AND SOLUBILIZATION OF ORGANOCHALCOGEN COMPOUNDS	Ph.D. Awarded 2010
12	**Rajeev Kumar**	SYNTHESIS CHARACTERIZATION AND EVALUATION OF SOME ORGANOSULFUR, SELENIUM AND TELLURIUM COMPOUNDS	Ph.D. Awarded 2011

13	**Nishima**	DESIGN, SYNTHESIS AND CHARACTERIZATION OF NANOPARTICLES FOR IMMUNODIAGNOSTIC APPLICATIONS	Ph.D. Awarded 2011
14	**Bhawna**	MICELLIZATION AND THE INTERACTION OF SURFACTANTS WITH PROTEINS: A PHYSICOCHEMICAL AND SPECTROSCOPIC STUDY	Ph.D. Awarded 2011
15	**Shivani**	DESIGN, SYNTHESIS AND CHARACTERIZATION OF ORGANYL CHALCOGENIDES (E=Se/Te)	Ph.D. Awarded 2012
16	**Yogesh Nagpal**	DESIGN, SYNTHESIS AND STRUCTURAL STUDIES OF NOVEL ORGANOCHALCOGEN COMPOUNDS	Ph.D. Awarded 2012
17	**Ekta Arora**	NEWER ASPECTS IN SYNTHETIC METHODOLOGY OF PYRIMIDYL AND QUINOLINYL CHALCOGEN COMPOUNDS	Ph.D. Awarded 2012
18	**Gurjeet Gujral**	SYNTHESIS AND CHARACTERIZATION OF MIXED ALKYL/ARYL PYRIDYL AND PICOLYL CHALCOGENIDES (E= Se, Te) AND THEIR DERIVATIVES	Ph.D. Awarded 2015
19	**Sanjay Kumar**	ROLE OF SURFACTANTS IN SYNTHESIS AND STABILIZATION OF NANOPARTICLES: SPECTROSCOPIC AND PHYSICOCHEMICAL ASPECTS	Ph.D. Awarded 2012
20	**Rishu**	SUBSTITUTED PYRIDYL CHALCOGEN COMPOUNDS-SYNTHESIS, CHARACTERIZATION AND PHYSICOCHEMICAL STUDIES.	Ph.D. Awarded 2012
21	**Sakshi Gupta**	SIZE CONTROLLED EFFICIENT SYNTHESIS OF PALLADIUM BASED METALLIC NANOPARTICLES AND THEIR POTENTIAL APPLICATIONS	Ph.D. Awarded 2014
22	**Ravneet Kaur**	METALLOSURFACTANTS: SYNTHESIS, CHARACTERIZATION, NANOPARTICLE FABRICATION AND THEIR POTENTIAL APPLICATIONS	Ph.D. Awarded 2014
23	**Neha Jindal**	PREPARATION, CHARACTERIZATION AND OPTIMIZATION OF NIOSOME AND MIXED MICELLAR SYSTEMS AS DRUG DELIVERY VEHICLES FOR LABILE AND POORLY WATER-SOLUBLE DRUGS	Ph.D. Awarded 2015
24	**Khushboo**	METAL SULPHIDE NANOSTRUCTURES: GROWTH, PROPERTIES AND POTENTIAL APPLICATIONS	Ph.D. Awarded 2014
25	**Kulvinder Singh**	SYNTHESIS AND CHARACTERISATION OF NANOSTRUCTURED METAL OXIDES FOR ELECTROCHEMICAL SENSOR AND OTHER POTENTIAL APPLICATIONS	Ph.D. Awarded 2015
26	**SheifaliSukhla**	FABRICATION, CHARACTERIZATION AND POTENTIAL APPLICATIONS OF NANOSIZED TRANSITION METAL OXIDES	Ph.D. Awarded 2017
27	**Prabjot Singh**	AMPHIPHILIC METALLOAGGREGATES OF TRANSITION ELEMENTS; SYNTHESIS, CHARACTERIZATION AND POTENTIAL APPLICATIONS	Ph.D. Awarded 2018
28	**Pratibha Bansal**	FABRICATION AND CHARACTERIZATION OF METAL OXIDE/SULFIDE NANOPARTICLES FOR CATALYTIC AND OTHER POTENTIAL APPLICATIONS	Ph.D. Awarded 2016
29	**Swati Sood**	TiO_2 BASED NANOSTRUCTURES: FABRICATION, CHARACTERIZATION AND THEIR POTENTIAL APPLICATION AS PHOTOCATALYST	Ph.D. Awarded 2016

30	**Randeep Lamba**	SYNTHESIS AND CHARATERISATION OF ZINC OXIDE-BASED NANOSTRUCTURES AND THEIR APPLICATION FOR PHOTOCATALYTIC DEGRADATION OF ORGANIC POLLUTANTS	Ph.D. Awarded 2017
31	**Harjit Singh**	SYNTHESIS, CHARACTERISATION AND EVALUATION OF SYMMETRICAL AND UNSYMMETRICAL CHALCOGENIDES OF 2/3-THIENYL AND FERROCENYL CARBALDEHYDE	Ph.D. Awarded 2017
32	**Arun Kumar**	SELF-ASSEMBLY AND SOLUBILIZATION EFFICIENCY OF MIXED IONIC AMPHIPHILIC SYSTEMS	Ph.D. Awarded 2017
33	**Kamaljot Kaur**	SCHIFF BASE FLUORESCENT MOIETIES AS A MULTICHANNEL CHEMOSENSOR FOR RECOGNITION OF METAL IONS	Ph.D. Awarded 2017
34	**Shikha Pundir**	SYNTHESIS, CHARACTERISATION AND POTENTIAL APPLICATION OF FUNCTIONALISED PYRAZOLE CHALCOGENIDES	Ph.D. Awarded 2018
35	**Nidhi Sharma**	SYNTHESIS, CHARACTERIZATION AND EVALUATION OF FUNCTIONALIZED IMIDAZO[1,2-A] PYRIDMIDINECHACLOGENIDES.	Ph.D. Awarded 2018
36	**Shikha Lohan**	SYSTEMATIC DEVELOPMENT OF OPTIMIZED NANOSTRUCTURES SYSTEMS OF GALANTAMINE AND BERBERINE WITH IMPROVED BIOPHARMACEUTICAL ATTRIBUTES	Ph.D. Awarded 2018
37	**Raj Kumar**	FORMULATION, CHARACTERZATION AND APPLICATIONS OF EDIBLE NANOEMULSIONS FOR EFFICIENT DELIVERY OF NEUTRACEUTICALS	Ph.D. Awarded 2019
38	**Sandeep Kumar**	LANTHANIDE-BASED NANOPARTICLES FOR EFFICIENT OPTICAL, PHOTOLUMINESCENT AND ELECTROCHEMICAL SENSING	Ph.D. Awarded 2020
39	**Rohini Kanwar**	LIPID NANOSTRUCTURES: FABRICATION, CHARACTERISATION, CHARACTERIZATION AND THEIR POTENTIAL APPLICATIONS AS DRUG CARRIERS	Ph.D. Awarded 2019
40	**Rekha**	SYNTHESIS AND CHARACTERIZATION OF FUNCTIONALIZED SURFACTANTS/ NANOPARTICLES AND THEIR INTERACTIONS WITH BIOMOLECULES	Ph.D. Awarded 2019
41	**Shelja Sharma**	LUMINESCENT C-DOTS: FABRICATION, CHARACTERIZATION AND APPLICATION AS POTENTIAL PHOTOCATALYST AND FLUORESCENT SENSOR	Ph.D. Awarded 2019
42	**Varnika Prakash**	FABRICATION OF GRAPHENE-BASED MATERIALS FOR SENSING OF FORENSICALLY RELEVANT DRUGS	Ph.D. Awarded 2020
43	**Shivani Uppal**	DESIGN, CHARACTERIZATION AND OPTIMIZATION OF SOFT ASSEMBLIES FOR BENZYL ISOTHIOCYANATE – A POORLY SOLUBLE NUTRACEUTICAL	Ph.D. Awarded 2020
44	**Manjot Kaur**	SYNTHESIS AND CHARACTERIZATION OF PHOTOLUMINESCENT GRAPHENE BASED NANOSTRUCTURES AND THEIR POTENTIAL APPLICATIONS AS FLUORESCENT SENSOR AND PHOTOCATALYST	Ph.D. Awarded 2020
45	**Ayushi Jain**	PLANT EXTRACT MEDIATED GREEN SYNTHESIS OF METAL OXIDE NANOPARTICLES FOR POTENTIAL APPLICATIONS	Ph.D. Awarded 2021
46	**Aashima Sharma**	SYNTHESIS AND CHARACTERISATION OF TAILORED LANTHANIDES NANOSTRUCTURES FOR POTENTIAL APPLICATIONS	Ph.D. Awarded 2020

47	**Sunaina**	DESIGN OF NANOSTRUCTURED METAL OXIDE-METAL CHALCOGENIDE HETEROSTRUCTURES FOR EFFICIENT SOLAR ENERGY CONVERSION	Ph.D. Awarded 2021
48	**Arshpreet Kaur**	DESIGN, SYNTHESIS AND SELF-ASSEMBLY OF TLR2 AGONISTIC LIPOPEPTIDES	Ph.D. Awarded 2022
49	**Jaspreet Kaur**	FABRICATION OF METAL-BASED NANOSTRUCTURES AS POTENTIAL SCAFFOLD IN WATER REMEDIATION	Ph.D. Awarded 2022
50	**Devika Vashisht**	DEVELOPMENT OF INORGANIC-ORGANIC HYBRID NANOSTRUCTURES FOR SENSING AND OTHER POTENTIAL APPLICATIONS	Ph.D. Awarded 2023
51	**Jyoti Rathee**	FABRICATION, OPTIMIZATION AND CHARACTERIZATION OF IMMUNO MODULATING AGENTS IN NANO ASSEMBLIES	Ph.D. Awarded 2023
52	**Supriya Rana**	CONTROL OF SHAPE AND SIZE OF METAL OXIDE NANOSTRUCTURES & THEIR MAGNETIC AND ELECTRO-CATATYTIC PROPERTIES	Ph.D. Awarded 2023
53	**Nirbhai Singh**	STIMULI-RESPONSIVE HYDROGEL COMPOSITE MATERIALS FOR POTENTIAL ENVIRONMENTAL AND BIOLOGICAL APPLICATIONS	Ph.D. Awarded 2023
54	**Manpreet Kaur**	AMINE FUNCTIONALIZED METAL ORGANIC FRAMEWORKS: SYNTHESIS, CHARACTERIZATION AND APPLICATIONS IN FLUORESCENCE SENSING AND PHOTOCATALYSIS	Ph.D. Awarded 2023
55	**Gurpreet Kaur**	DESIGNING OF HALLOYSITE NANOCLAY FRAMEWORK FOR ELECTROCHEMICAL SENSING OF POTENTIAL FORENSIC MOLECULES	Thesis submitted 2024
56	**Amit Banyal**	FABRICATION AND OPTIMISATION OF ESSENTIAL OIL BASED NANOASSEMBLIES FOR SUSTAINABLE AGRI-FOOD APPLICATIONS	Thesis submitted 2024
57	**Anjali Tomar**	ICAL AND OPTICAL CHARACTERISTICS OF SECURITY COMMERCIAL PRINTED DOCUMENT SAMPLES	**Registered 2021**
58	**Pinki**	SYNTHESIS OF 2D MoS_2-BASED NANOCOMPOSITES AND THEIR APPLICATION FOR THE PHOTOCATALYTIC DEGRADATION OF ORGANIC POLLUTANTS AND HYDROGEN GENERATION	Thesis submitted 2025
59	**Naveen**	FABRICATION OF TRANSITION METAL-BASED CATALYSTS FOR ELECTROCHEMICAL ENERGY CONVERSION	**Registered 2022**
60	**Meenakshi Dudi**	FABRICATION, CHARACTERIZATION AND OPTIMIZATION OF BIOCOMPATIBLE COLLOIDAL ASSEMBLIES FOR THE EFFICIENT DELIVERY OF HERBAL BIOACTIVES	**Registered 2023**
61	**Priyanka**	ANALYSIS OF SYNTHESIZED MESOPOROUS BIOCHARS FROM AGRICULTURAL WASTES FOR SUSTAINABLE ENVIRONMENTAL REMEDIATION	**Registered 2025**
62	**Tamanna Wadhawan**	DEVELOPMENT OF PLANT EXTRACT BASED TRANSITION METAL OXIDE NANOSTRUCTURES FOR WASTEWATER REMEDIATION	**Registered 2025**
63	**Arushi**	FABRICATION OF GRAPHITIC CARBON NITRIDE NANOJUNCTIONS WITH TRANSITION METALS AS FLUOROMETRIC SENSORS FOR DETECTION OF ENVIRONMENTAL CONTAMINANTS	**Registered 2025**
64	**Alka Rani**		**Enrolled 2025**

(iii) M.Sc. students supervised

Sr.No.	*Name of the student*	*Research Topic*	*Year*
1.	**Khushveer Kaur**	GREEN SYNTHESIS OF MOLYBDENUM OXIDE NANOSTRUCTURES: AVIABLE APPROACH FOR WATER REMEDIATION	2021
2.	**Simmi**	ADSORPTION OF METAL IONS USING SCHIFF BASE IMMOBILISED SILICA GEL	2021
3.	**Manpreet Kaur**	AMINO ACID DERIVED IMINE MOIETY FOR SENSING OF Hg (II) IONS IN THE AQUEOUS MEDIUM	2020
4.	**Palak Gupta**	FABRICATION AND CHARACTERIZATION OF AMINO ACID FUNCTIONALIZED CERIA NANOPARTICLES AND UTILIZATION AS SENSOR FOR NITRO COMPOUNDS	2020
5.	**Arushi Arora**	MAGNETICALLY RETRIEVABLE Ce-DOPED Fe_2O_4 NANOPARTICLES AS SCAFFOLDS FOR REMOVAL OF AZO DYE	2019
6.	**Meenakshi**	FACILE HYDROTHERMAL SYNTHESIS OF METAL CHALGENOIDE NANOSTRUCTURES AND THEIR FUTURE FEATURES	2019
7.	**Pratibha Sharma**	DESIGN, FABRICATION AND CHARCATERIZATION OF NUTRACEUTICAL BASED NANOEMULSIONS FOR POTENTIAL BIOMEDICAL APPLICATIONS	2018
8.	**Manisha**	DESIGN, FABRICATION AND MODIFICATION OF CERIUM OXIDE-BASED NANOSTRUCTURES FOR POTENTIAL APPLICATIONS	2018
9.	**Rashmi Jukaria**	METAL ION DETECTION USING SCHIFF BASE AS CALORIMETRIC CHEMOSENSOR	2018
10.	**Runa**	NANOPARTICLES DERIVED FROM METAL-COUPLED AMPHIPHILIC MOLECULES: SYNTHESIS, CHARACTERIZATION AND EXPERIMENTAL VALIDATION OF DNA INTERACTION	2017
11.	**Shaily**	SYNTHESIS AND CHARACTERIZATION OF MANGANESE NANOPARTICLES	2016
12.	**Navaldeep**	FABRICATION OF CHITOSAN BASED NANOPARTICLES TO ENHANCE THE STABILITY OF BENZYL ISOTHIOCYANATE	2016
13.	**Sunaina**	SYNTHESIS OF Fe, Co, Ni AND Cu BASED METAL-CTAC COMPLEXES AND THEIR INTERACTION WITH BSA	2015
14.	**Arshpreet Kaur**	SURFACTANT COATED SILICA PARTICLES AS SMART SCAVENGERS FOR PESTICIDE REMOVAL	2015
15.	**Soumya**	SYNTHESIS AND CHARACTERISATION OF ANTICANCER MOLECULE LOADED PLGA NANOPARTICLES	2015
16.	**Aashima**	EVALUATION OF SELF-ASSEMBLY BEHAVIOUR OF NOVEL SURFACTANTS	2014
17.	**Astha**	SURFACTANT ANCHORING AND AGGREGATE STRUCTURES AT SILICA NANOPARTICLES: A PERSUASIVE FAÇADE FOR ADSORPTION OF AZO DYE	2014
18.	**Appanjeet Kaur**	ZNO NANOPARTICLES: SYNTHESIS, CHARACTERIZATION AND SENSING APPLICATIONS	2014
19.	**Deepak Rohilla**	CATIONIC SURFACTANT DECORATED SILICA NANOPARTICLES: SYNTHESIS, MORPHOLOGY AND COLLOIDAL PROPERTIES	2013
20.	**Jagroop Kaur**	PHASE SOLUBILITY STUDIES AND STABILITY OF CHOLESTEROL/B-CYCLODEXTRIN COMPLEXES IN NANOEMULSION	2013

21.	**Harpreet Kaur**	STUDY OF SELF-ASSEMBLY BEHAVIOUR OF NOVEL METALLOSURFACTANTS	2013
22.	**Nidhi**	INVESTIGATION OF MIXED MICELLAR SYSTEMS OF DAA AND DTAB FOR SOLUBILITY ENHANCEMENT OF CURCUMIN	2012
23.	**Rekha**	SYNTHESIS AND CHARACTERIZATION OF CdS NANOPARTICLES AND THEIR APPLICATION IN FABRICATION OF ELECTROCHEMICAL SENSOR FOR EXPLOSIVE 2,4,6-TRINITROTOLUENE	2012
24.	**Ginny Karir**	SYNTHESIS, CHARACTERIZATION AND MICELLIZATION OF NOVEL PALLADIUM METALLOSURFACTANT	2011
25.	**Nidhi Kaur Bhatia**	ASSIMILATION AND BEHAVIOR OF CYCLODEXTRINS IN REVERSE MICELLES	2011
26.	**Aman K.K. Bhasin**	SYNTHESIS AND CHARACTERIZATION OF MAGNETIC NANOPARTICLES AND EXPLORING THEIR HIDDEN TALENT IN TREATMENT OF PHENOLIC WASTE WATER	2010
27.	**Navnita**	SYNTHESIS AND CHARACTERIZATION OF PALLADIUM NANOPARTICLES	2010
28.	**Swati sood**	PHYSICOCHEMICAL STUDIES BASED ON THE INTERACTION OF GELATIN WITH CATIONIC SURFACTANT DDAB	2010
29.	**Bhuvnesh Bharti**	TAILORING THE OPTOELECTRONIC PROPERTIES OF SILVER NANOPARTICLES SYNTHESIS IN MICELLAR MEDIA	2009
30.	**Arun Kumar**	SPONTANEOUS INCEPTION OF VESICLE FORMATION USING MIXED SURFACTANTS	2009
31.	**Manoj Kumar Choudhary**	SURFACTANT ASSISTED SYNTHESIS AND CHARACTERIZATION OF CDS NANOPARTICLES AT HIGHER TEMPERATURE	2008
32.	**Ruchi Mutneja**	STRUCTURAL CHARACTERIZATION OF MICROEMULSIONS BY VARIOUS PHYSICOCHEMICAL AND SPECTROCHEMICAL METHODS	2008
33.	**Charu Dwivedi**	EFFECT OF PRESENCE OF CDS ON THE SOLUTION BEHAVIOUR OF DICLOFENAC SODIUM: SPECTROSCOPIC AND THERMODYNAMIC STUDIES	2007
34.	**Chanderjit Singh**	MIXED MICELLE FORMATION BY SURFACTANT BINARY MIXTURES: A THERMODYNAMIC STUDY	2007
35.	**Money Arora**	MICELLIZATION OF TETRADECYLTRIMETHYL AMMONIUM CHLORIDE IN THE PRESENCE OF DICLOFENAC SODIUM IN AQUEOUS MEDIA	2006
36.	**Reetika Goyal**	PHASE STUDIES OF MICELLAR AND MICROEMULSION SYSTEM	2006
37.	**Shikha Awasthi**	THE EFFECT OF TEMPERATURE ON MICELLIZATION OF TETRADECYLTRIMETHYL AMMONIUM CHLORIDEIN AQUEOUS MEDIAIN THE PRESENCE OF ADDITIVES	2005
38.	**Chander mani**	A COMPARATIVE STUDY OF THERMOPHYSICAL AND SPECTROSCOPIC PROPERTIES IN MIXTURES OF ISOMERIC BUTANEDIOL AND N, N-DIMETHYLFORMAMIDE	2005
39.	**Renu Chauhan**	TEMPERATURE EFFECT ON MICELLAR BEHAVIOR OF CATIONIC SURFACTANTS: A THERMODYNAMIC STUDY	2004
40.	**Aman Dubey**	ANALYSIS OF BIODEGRADABLE POLYMERS USING PHYSICO-CHEMICAL STUDIES.	2004
41.	**Bhawna**	PHASE DIAGRAM AND EFFECT OF ADDITIVE ON THE PROPERTIES OF AOT BASED MICROEMULSIONS.	2003

42.	**Nidhi Gupta**	TEMPERATURE INDUCED PERCOLATION PHENOMENON OF WATER/AOT/ISOOCTANE, WATER IN OIL MICROEMULSION IN PRESENCE OF ORGANIC DERIVATIVES OF CHALCOGENS.	2002
43.	**Rohit Singh**	VISCOMETRIC ANALYSIS OF POLYMER SOLVENT MIXTURES	2001
44.	**Kanchan Sankhyan**	INFLUENCE OF TEMPERATURE ON THE PROPERTIES OF AOT + H_2O + ISOOCTANE MICROEMULSIONS ON THE PRESENCE OF POLY(GLYCOLS).	2000
45.	**Shweta Sharma**	THERMODYNAMIC PARAMETERS OF DIFFERENT SURFACTANTS IN NON-AQUEOUS MEDIA AT $30^{O}C$ AND $40^{O}C$	1999
46.	**Poonam Sharma**	CHARACTERIZATION OF NON-AQUEOUS MICROEMULSION SYSTEM	1998
47.	**Anuradha Sanasam**	PHASE BEHAVIOUR AND CONDUCTIVITY OF THE NON-AQUEOUS MICROEMULSIONS.	1997
48.	**Shalini**	ULTRASONIC VELOCITY OF BLOOD SAMPLES	1995

(iv) Trainees

	Summer trainee	***June-July 2015***
1.	**Aarti**	Nanoscience & Nanotech, PU Chandigarh
2.	**Sanjana**	IIT Roorke
	Summer trainee	***1 June 2014-31st July 2014***
1.	**Saurav**	Synthesis, characterization and application of Metal-surfactant.
2.	**Sukhpreet**	Synthesis and characterization of Metallosurfactants
3.	**Harman preet**	Fabrication of metallosurfactant and their characterization
4.	**Khushwant Kaur**	Fabrication of metal oxide nanoparticles and characterization
5.	**Amardeep Kaur**	Synthesis of ultrasmall Gd_2O_3nanoparticles and characterization via spectroscopic techniques
6.	**Mehak Jain**	Protein interaction of encapsulated nanostructured lipid carriers with BSA (Jan. 2016 to Jun. 2016)
	Summer trainee	***June-July 2016***
1.	**Pankaj Taneja**	-do-
2.	**Ruchi Kushwah**	-do-
3.	**Gurleen Kaur**	-do-
4.	**Damini Verma**	-do-
5.	**Meenakshi**	-do-
	Summer trainee	***June-July 2017***
1.	**Nishu**	-do-
2.	**Preeti Yadav**	-do-
3.	**Pallavi**	-do-
4.	**Heenam**	-do-
5.	**Saurabh**	-do-
	Summer trainee	***June-July 2018***
1.	**Abhinav**	-do-
2.	**Neha**	-do-
3.	**Mahima**	-do-
	Winter trainee	***15th December 2021- 3rd January 2022***
1.	**Fiza**	-do-
2.	**Arshika**	-do-
3.	**Varsha**	-do-

4.	**Priyanshi**	-do-
5.	**Komal**	-do-
6.	**Rahul**	Chandigarh University, Punjab
7.	**Waribam Stella**	Chandigarh University, Punjab

18. Research projects sanctioned till date: DST=06; CSIR=05; UGC=06; Indo-German=01; Indo-Japan=01; ICMR=01

S. No.	Grant agency	Authors	Title of the project and reference number	Sanction no., Duration and status	Amount (Rs.)
1	**CSIR**	R.K. Dewan (PI) **S.K. Mehta** (Co-PI)	Ultrasonic and Thermodynamic properties of liquid and liquid mixtures	5(160)/89 EMR II dated April 1989-1993 Four years, Completed	2,47,150/-
2	**UGC**	**S.K. Mehta** (PI)	Structure and stability of microemulsions	8-20(Sc)/90 (SA-I) dated Nov. 24, 1990-1994 Five years, Completed	3,67,300/-
3	**UGC**	R.K. Dewan (PI) **S.K. Mehta** (Co-PI)	Correlation between topological aspects, ultrasonic velocities and thermodynamic properties of mixtures	12-40/93 (SR-I) dated 28 Jan. 1994 1.2.1994-31.1.1998 Four years, Completed	2,40,000/-
4	**UGC***	**S.K. Mehta** (PI)	Volumetric and Transport study in microemulsions	1996-97 Two years, completed	20,000/-
5	**DST**	**S.K. Mehta** (PI)	Phase behaviour, structural effects, volumetric and transport studies in microemulsions	SP/Si/H-51/98 1.11.2000-30.10.2004 Four years, completed	10,43,040/-
6	**UGC**	**S.K. Mehta** (PI)	Partial molar volumes and isentropic compressibilities in mixtures of γ-butyrolactum (N=5)	F.12-67/2001(SR-I) dated 30 March 2001 2.5.2001-1.5.2004 Three years, completed	3,00,560/-
7	**DST**	K.K. Bhasin (PI) **S.K. Mehta** (Co-PI)	Design, Scale up synthesis and evaluation of novel pyridyl, pyrimidyl and picolyl chalcogen compounds and their potential applications	SR/S1/IC-02-2003 dated 29.2.2003-28.02.2006 Three years, completed	13,20,000/-
8	**UGC**	**S.K. Mehta** (PI) K.K. Bhasin (Co-PI)	Thermophysical study of non-aqueous mixtures of poly hydroxy compounds in the presence of additives	F.30-77/2004(SR) dated 29 Oct. 2001 1.1.2005-31.12.2007 Three years, completed	6,16,100/-

9	**CSIR**	**S.K. Mehta** (PI)	Effects of Additives on the internal dynamics and properties of micelles	01(1955)/04/EMR-II dated 7.1.2005 1.1.2005-31.12.2007 Three years, completed	7,96,000/-
10	**DST**	**S.K. Mehta** (PI)	On the behaviour of reverse micelles in the presence of an external entity.	SR/S1/PC-02/2006 dated 4 Sept., 2006 1.1.2007-1.12.2009 Three years, completed	24,00,000/-
11	**CSIR**	**S.K. Mehta** (PI)	Quantitative description of formation of self-assembly of surfactants in the presence of additives	01(2306)/09/EMR-II dated 17.3.2009 30.6.2009-30.6.2012 Three years, completed	9,00,000/-
12	**DST**	**S.K. Mehta** (PI)	Structural, physico-chemical and spectral analysis of mixed reverse micellar formulations affected by the presence of additives	26.04.2010-25.04.2013 Three years Completed	39,00,000/-
13	**UGC**	**S.K. Mehta** (PI)	Formulations, structural and interactional behavior of nanoemulsions and stabilization of biomolecules in nanoemulsions	1.07.2012-30.06.2015 Three years Completed	11,57,000/-
14	**CSIR**	**S.K. Mehta** (PI)	Niosomes as a potential carrier for controlled release of labile and poorly-soluble drugs	01(2697)/12/EMR-II 1.10.2012-31.9.2015 Three years, Completed	16,00,000/-
15	**DST**	**S.K. Mehta** (PI)	Self-aggregation behavior of synthesized metallosurfactants and their application in nanoparticle fabrication	SERB/F/3596/2013-14 09.09.2013-08.09.2016 Three years, Completed	54,50,000/-
16	****DST & BMBF**	**S.K. Mehta**, Michael Gradzielski	Surfactants and amphiphilic polymers in nanotechnology- On the way to smarter formulations	IGSTC/WS-2012/Poly-PU/22/2013-14/ 20-22 March 2014	21,70,000/-
17	**INST**	**S.K. Mehta** (Co-PI)	Ultra-fast effective treatment of water contaminants using semiconducting nanomaterials	25(1)/2015-INST 23.4.2015-22.04.2017 Two years	10,00,000/-

18	**CSIR**	**S.K. Mehta** (PI)	Optomagnetic Nanostructures: Potential carriers for nutraceuticals	01(2951)/18/EMR-II 1.05.2018-30.04.2021 Three years	8,85,000/-
19	**GCRF pump priming fund, UK**	Alex Ibhadon **S.K. Mehta**	Analysis of emerging contaminants in drinking and ground water of Chandigarh and nearby areas	Feb. -July 2019 (six months)	£15,386
20	**Going Global Partnerships Programme, UK**	Avtar Mathuru, Anju Srivastava, R.K. Sharma, **S.K. Mehta**	Exploratory Grant for Green Chemistry	02.07.2022-02.09.2022	53,528/-
21	**ICMR**	Indu Verma **S.K. Mehta (CO-PI)**	Development and evaluation of rapid diagnostic test/device for osteoarticular tuberculosis based on mycobacterial peptides selected from a high-throughput peptide array platform	17.01.2023-16.01.2026	32,64,908/-

* Minor project

** Indo-German Bilateral Workshop

International projects:

- **DST-DAAD Project Based Personal Exchange Programme (PPP)-2008-10 (PI)**
- **DST-JSPS S&T Programme of Cooperation Project. -2011-13 (PI)**
- **SPARC MHRD project -2019-2021 (Co-PI)**

19. Detail of participation in International, National and Regional Seminars since 2000

S. No.	*Title of paper presented*	*Location*	*Year*
1	**Presented paper "Sound velocity and apparent volumes of aqueous solutions of Pluronics L31, P123 and L31**	Technical University, Berlin	June 2000
2	**Presented paper "Comparative account of temperature effect on micellization of tetraethylammonium bromide in aqueous and non-aqueous media"**	14th One day Annual National Symposium in the Department of Chemistry, Panjab University, Chandigarh	March 23, 2002
3	**Presented paper "Phase behavior, volumetric and transport studies in non-aqueous microemulsions"**	International Conference on Progress in Disperse Systems, held in Kolkata, in Commemoration of the Birth Centenary of Prof. B. N. Ghosh	January 16-18, 2002

4	**Presented paper "Temperature-induced percolation behavior of AOT reverse micelles affected by poly(ethylene glycol)s"**	16th One day Annual National Symposium in the Department of Chemistry, Panjab University, Chandigarh	February 2003
5	**Presented paper "Effect of placement of hydroxyl groups in isomeric butanediols on the behaviour of thermophysical and spectroscopic properties with pyrrolidin-2-one"**	17th One day Annual National Symposium in the Department of Chemistry, Panjab University, Chandigarh	March 12, 2004
6	**Presented paper "Influence of organic derivatives of chalcogens on the physical properties of water-in-oil microemulsions"**	IXth International Conference on the Chemistry of Selenium and Tellurium (ICCST-9)	February 23-27, 2004
7	**Presented paper "Inclusion complexes of cyclodextrins with pharmaceutical compounds in aqueous media: A spectroscopic and conductometric study"**	Professor Ram Chand Paul Ist National Annual Symposium in the Department of Chemistry, Panjab University, Chandigarh	February 25, 2005
8	**Presented paper "Dispersed molecular aggregates: Tellurium nanoparticles in W/O microemulsion"**	19th One day Annual National Symposium in the Department of Chemistry, Panjab University, Chandigarh	December 22, 2005
9	**Presented paper "AOT-associated tellurium nanoparticles in w/o microemulsion"**	NIPER-NANO-2006-Two days Conference on Nanotechnology in Advanced Drug Delivery NIPER, S. A. S. Nagar, Punjab, India	17-18th February' 2006
10	**Presented paper "Characterisation of tween based microemulsion drug delivery vehicles for an anti-tubercular drug- Rifampcin"**	NIPER-NANO-2006-Two days Conference on Nanotechnology in Advanced Drug Delivery NIPER, S. A. S. Nagar, Punjab, India	17-18th February' 2006
11	**Presented paper 'Effects of Additives on the Internal Dynamics and Properties of Reverse Micellar formulations' in the**	59th Divisional Meeting of the Colloid and Interface Chemistry, Chemical Society of Japan, International symposium at Hokkaido University, Sapporo, Hokkaido, Japan	15-17 September, 2006
12	**Presented paper 'Effect of Sugar derivatives on the internal dynamics and properties of AOT Reverse Micelles: Temperature Induced Percolation'**	2006 Japan/Taiwan/Korea Chemical Engineering Conference- Fundamental & Applications at Kagoshima University, Kagoshima, Japan	17-19 November 2006
13	**Presented paper "Effects of Additives on the Internal Dynamics and Properties of Reverse Micellar formulations"**	National Conference on "Recent Advancement and Developments in Chemical Sciences" at D.A.V College Abohar	January 7-8, 2008

14	**Presented paper "Surfactant encapsulated synthesis and characterization of semiconducting nanoparticles in aqueous micellar media"**	3rd mid-year symposium of CRSI, NIPER, S. A. S. Nagar, Punjab, India.	25-26 July, 2008
15	**Participated in Celebrating the Golden Jubilee of Indo-German Cooperation in Higher Education, 'Indo-German Symposium on Education and Research in Sustainability'**	Indian Institute of Technology Madras	8 - 9 September 2008
16	**Participated in 11th CRSI National symposium in Chemistry,**	NCL Pune	Feb. 5-8, 2009
17	**Presented a talk on "Surfactant-Assisted Environmentally Friendly Synthesis of nanoparticles"**	Technical University Berlin	May 12, 2009.
18	**Participated in the course "Advanced Dissolution"**	organized by US Pharmacopeia, Hyderabad	Aug. 3-4, 2009
19	**Presented a paper on "Self-assembly of metallosurfactants and their use as templates for metallic nanoparticles"**	International conference on 'Global challenges- the role of chemistry in giving their solutions international conference' Bangkok	11th -15th June 2011
20	**Presented a paper on "Nanotechnology",**	National Conference on Materials Science, Applications in Energy and Environment in Shimla	02-03 March, 2012
21	**Presented a paper on "Nanosensors: A new prespective in electrochemistry"**	National Conference on Polymer Materials in Shimla	02-03 March, 2012
22	**Presented a paper on "Nanoparticles based electrochemical sensors for detection of environmental pollutants"**	Punjab Science Congress Amritsar	02-03 March, 2012
23	**Presented a paper on "Nanosensors: A new prespective in electrochemistry"**	National Conference on Materials Science, Applications in Energy and Environment at Jalandhar	02-03 March, 2012
24	**Presented a paper on "An overview of nanoparticles fabrication and their catalytic, electrochemical and sensor based applications"**	Symposium Indian Council of Chemists At Rajkot	26-29 Dec, 2012
25	**Presented a paper on "Nanosensors: A new prespective in electrochemistry"**	Department of Chemistry, Kyushu University, Fukuoka, Japan	15 March, 2013
26	**Presented a paper on "Nanostructures: A Gateway to catalytic, electrochemical and sensor based applications"**	Asian Polymer Conference at Panjab University, Chandigarh	20 Feb., 2013
27	**Presented a paper on "Nanostructures: Catalytic, electrochemical and sensor based applications"**	One day symposium at GNDU Amritsar	29 March, 2013
28	**Presented a paper in International Conference on Interdisciplinary areas with chemical Sciences (ICIACS 2013)**	Department of Chemistry, Panjab University, Chandigarh	30th Oct – 1stNov 2013

29	**Presented a talk in Faculty Development Programme on New Horizons in Energy, Environment and nanotechnology**	Dr S. S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh	25-30 Nov., 2013
30	**Chaired a session at the International Workshop on Green Initiatives in Energy, Environment and Health**	Delhi University, Delhi	Dec. 2-3, 2013
31	**Presented a talk in National Seminar on Frontiers in Polymer Science – II (FPS-2013)**	Department of Chemistry, H.P. University, Shimla,	Dec.12-13, 2013.
32	**Presented a talk at CRSI symposium**	IIT, Mumbai	Feb. 1-3, 2014
33	**Presented a talk at ICONSET conference**	Panjab University, Chandigarh	March 2-5, 2014
34	**Presented a talk at Indo-German workshop**	Panjab University, Chandigarh	March 20-22, 2014
35	**Attended Indo-US symposium**	Manali, HP.	May 28 – June 1, 2014
36	**Presented a talk at ACS 2014 Colloid &Surface Science Symposium**	University of Pennsylvania, Philadelphia, PA USA	June 22-25, 2014
37	**Presented a talk at FDP on Health, Environment and nanotechnology**	Dr. SSBUIECT, Panjab University	Aug. 22-25, 2014
38	**Presented a talk at 'The 5th Asia-Oceania Conference on Green and Sustainable Chemistry'**	New Delhi	Jan. 15-17, 2015
39	**Presented a talk**	Ahmedabad	Feb. 15-17, 2015
40	**Presented a talk**	IIT Delhi	May 20, 2015
41	**Presented a talk**	Dr. SSBUICET, PU	Oct. 16, 2015
42	**Presented a talk**	Dr. SSBUICET, PU	Oct. 19, 2015
43	**Presented a lecture at 17 National Conference on Surfactants, Emulsions &Biocolloids**	NATCOSEB XVII, Raipur	Nov. 4-6, 2015
	Presented a lecture at Indo-Australian symposium in Chemistry	INST, Mohali	Nov. 26-28, 2015
44	**Presented a lecture at 18th CRSI national symposium in Chemistry**	PU Chandigarh	Feb. 5-7, 2016
45	**Delivered a talk**	TU Berlin	May 31, 2016
46	**Delivered a talk at conference**	ANNUM 4, Singapore	June 8-10, 2016
47	**Delivered talks**	University of Hull	
48	**Delivered a talk**	The School of Basic & Applied Sciences, Maharaja Agrasen University, Baddi, District Solan, H.P.	Nov. 24, 2017
49	**Delivered a talk "Analytical sensors based on nanoparticles for low detection of toxic compounds"**	the XXXV annual conference of Indian Council of Chemists	Dec. 22- 24, 2016

50	**KeyNote Speaker on Valedictory Function at the National Seminar on "Innovations & Challenges in Basic & Applied Sciences"**	School of Basic & Applied Sciences, Maharaja Agrasen University, Baddi, District Solan, H.P.	Mar. 4, 2017
51	**Presented a talk "Systematic approach towards research"**	Workshop on Research Methodology at Dr. SSBUICET, PU	Mar. 21, 2017
52	**Delivered talk entitled "Metal oxide nanoparticles as efficient scaffolds for chemical sensing and environmental remediation"**	Joint University of York GCRF IAA Meeting and Departmental Seminar on Development of Rural Bio-refineries in North India, Green Chemistry Centre of Excellence, University of York, UK	Mar. 27, 2017
53	**Delivered talk entitled "Importance of Advanced Research Instrumentation and facilities"**	Seminar cum Workshop on Advanced Scientific Techniques at Shoolini University, Solan	23-25 May, 2017
54	**Delivered invited talk entitled "Nanostructures in Electrochemical sensing"**	ANNUM V at Universitas Gadjah Mada, Yogyakarta, Indonesia	11-12 July, 2017
55	**Delivered invited talk entitled "SEM Fundamentals and its use in Palaeoanthropology"**	National Workshop on "Perspectives in Palaeoanthropology & Human Evolution: Concepts, Methods, Issues", Department of Anthropology, Panjab University, Chandigarh	Feb. 6-9, 2018
56	**Delivered invited talk entitled "Nanostructures in Electrochemical sensing"**	International Conference on Supramolecules and Forensic Nanotechnology, Gujarat Forensic Sciences University	Feb. 23 –24, 2018
57	**Delivered invited talk on "National Science day"**	DAV University, Jallandhar	Feb. 28, 2018
58	**Delivered a talk on a TEQIP-III sponsored Workshop on "Research Methodology"**	Dr. SSB UICET, Panjab University, Chandigarh	Sept. 17-19, 2018
59	**Delivered invited talk at "International Conference of Pharmacology and drug discovery (ICPDD-2018)**	Maharaja Agrasen University, Baddi	Oct. 5-7, 2018
60	**Delivered invited talk at "International Workshop and Symposium on Green Chemistry & Technology"**	Govt. Dungar College, Bikaner, Rajasthan,	Oct. 15-17, 2018
61	**Delivered invited talk at "National Conference on Chemistry for Human Health and Environment"**	University of Delhi, Delhi	Dec. 15-16, 2018
62	**Delivered a talk on a TEQIP-III sponsored Workshop on "Innovative Approaches in Teaching and Research"**	Dr. SSB UICET, Panjab University, Chandigarh	March 11, 2019 to March 15, 2019
63	**Delivered a talk on Quality improvement in reserach**	MMU University	June 1, 2019

64	**Delivered a keynote talk on a TEQIP-III sponsored Workshop on "Faculty Development Programme"**	Dibrugarh University	June 6-7, 2019
65	**Delivered a keynote talk on a TEQIP-III sponsored Workshop on "Material Charaterisation Techniques"**	NIT Jalandar	June 13, 2019
66	**Delivered a keynote talk on a TEQIP-III sponsored Workshop on "Material Charaterisation Techniques"**	NIT Srinagar	June 27, 2019
67	**Delivered an invited talk Recent Trends in Chemical Sciences' and 'RSC Workshop on Periodic Table: Boon for Mankind' in cognizance of celebrating 2019 as the International Year of Periodic Table**	Univ. of Delhi	August 30 – September 01, 2019.
68	**Chiared a session 'International Conference, Asian Network for Natural & Unnatural Materials (ANNUM-VII)**	Gujrat University, Ahmedabad	September 27-29, 2019
69	**Delivered a talk at 'Workshop on Green Chemistry'**	D.A.V. College, Jalandar	October 12, 2019.
70	**Delivered a talk at International Conference "Chemical Constellation Cheminar-2019 [CCC-2019]**	NIT Jalandar	October 13, 2019
71	**Chaired a session at National conference on "Water Crisis, Public Health and Sustainable solutions" (WCPHS-2019)**	INSA auditorium, New Delhi	October 21-22, 2019
72	**Delivered an invited talk on 'International Analytical Conference and Exhibition'**	Amity University, Noida, NCR	December 12-14, 2019
73	**Delivered a keynote talk at INDO-UK Workshop 'Green Chemistry for Societal Needs: Healthcare, Pollution and Circular Economies'**	Univ. of Delhi	December 16-18, 2019
74	**Delivered a keynote talk at ACS Workshop Greening our Education System: Initiatives for Propagating and Preaching Beyond Benign Concepts in Classrooms and Laboratories**	Univ. of Delhi	Decemeber 19, 2019
75	**Delivered an invited talk at ICC Conference**	Jaipur Natioonal University	December 28, 2019
76	**Delivered an invited talk at 6th National seminar on recent advances in chemical sciences (RACS-VI)**	Khalsa College Amritsar	Feb. 26, 2020
77	**Delivered an invited talk at a two-day science conclave on 'Kindle youth towards basic sciences for human well-being**	Kurukshetra University, Kurukshetra	March 3, 2020

78	**Delivered a Keynote talk at 3rd National Conference on Innovation in Bioscience and Technology (NCIBT-2020)**	Multani Mal Modi College, Patiala	March 7, 2020
79.	**Delivered an invited e-talk on Nanotechnology**	Dr. Bhimrao Ambedkar University, Agra	May 23, 2020
80.	**Delivered an invited talk at Webinar on *"Lets Talk about Science: How, What and Why"***	Maharaja Agrasen University, Baddi, District Solan, H.P.	June 8**,** 2020.
81.	**Delivered an invited e-talk for FDP on "Practical Aspects of Spectroscopic Tools in Chemical and Nano Sciences"**	Chitkara University, Baddi	July 6, 2020
82.	**Delivered an invited e-talk for refresher course on 'Significance of Ethics in research"**	GNDU, Amritsar	July 29, 2020
83	**Delivered an invited e-talk for refresher course**	P. Ravishankar University, Raipur	Sept. 15, 2020
84	**Delivered an invited e-talk for IRRP-2020**	SLIET, Longowal	Sept. 18, 2020
85	**Delivered an invited talk on two days National seminar webinar**	VSSUT Burla, Odisa	Sept. 25, 2020
86	**Delivered an invited e-talk for refresher course**	P. Ravishankar University, Raipur	Sept. 26, 2020
87	**Delivered an invited e-talk for refresher course**	Kurukshetra University, Kurukshetra	Oct. 5, 2020
88	**Delivered an invited e-talk for refresher course**	Kurukshetra University, Kurukshetra	Oct. 6, 2020
89	**Delivered an invited e-talk onTwo-Week Online Refresher Course on Environment Conservation**	GNDU, Amritsar	Nov. 26, 2020
90	**Delivered an invited e-talk on 2-Day Science Academics Virtual Lecture Workshop on "Green and sustainable Chemistry"**	Rajiv Gandhi University, Arunachal Pradesh	Dec. 18, 2020
91	**Delivered an invited e-talk on Webinar on Research Methodology**	Rayat-Bahra, Mohali	Dec. 19, 2020
92	**Delivered an invited e-talk at CHASCON-2020**	Panjab University, Chandigarh	Dec. 19, 2020
93	**Delivered an invited e-talk**	Ganpat University, Gujrat	Jan. 28, 2021

94	**Delivered an invited e-talk in UGC sponsored Faculty Induction Programme (FIP) conducted at UGC-HRDC**	GNDU, Amritsar	Feb. 23, 2021
95	**Delivered an invited e-talk during AICTE sponsored Short Term Training Programme (Energy and Environmental Pollution)**	Beant College of Engineering & Technology Gurdaspur -143521	March 1, 2021
96	**Delivered an invited e-talk during TEQIP-III sponsored one-week short term course**	Deenbandhu Chhotu Ram Univ. of Sci.& Tech., Murthal, Sonepat	March 2, 2021
97	**Delivered an invited e-talk**	GNDU, Amritsar	March 3, 2021
98	**Delivered an invited e-talk**	Murthal	May , 2021
99	**Chief Guest of the 'Valedictory Function' at International Conference "Advanced Developments in Chemistry and Allied Sciences-2021 (ADCAS-21)"** **Delivered an invited e-talk**	DCRUST, Murthal	December 16-17, 2021.
100	**Plenary e-Lecture at Indo-African International Conference on Emerging Materials Science and Technologies (IAFICEMST'2022)**	South Durban University of Technology Africa and Chandigarh University	August 3-5, 2022
101	**Inaugural talk at FDP**	University of Ladakh	Sept. 14, 2022
102	**Invited talk at Colloid Society Conference**	Technical University Berlin, Germany	Sept. 28, 2022
103	**Invited talk "Nanotechnology and Cosmetology"**	Technical University Berlin, Germany	Sept. 28, 2022
104	**Keynote address at Two-Day Conclave on New Education Policy-2020**	University of Ladakh	Dec. 9-10, 2022
105	**Keynote talk at international workshop and symposium on Green Chemistry and Technology Dec. 22, 2022**	Goverment Dungar College, Bikaner	Dec. 22-24, 2022
106	**Session Chair and Plenary talk at International workshop and symposium on Green Chemistry and Technology Dec. 23, 2022**	Goverment Dungar College, Bikaner	Dec. 22-24, 2022
107	**Chief Guest and Plenary talk at international workshop on Green Energy and sustanibility in Science and Technology Jan. 30, 2023**	University of Rajasthan	Jan. 30-31, 2023
108	**Chief Guest at Ram Chand Paul Symposium Feb. 22-23, 2023**	Panjab University, Chandigarh	Feb. 22, 2023

109	**Expert talk at Bhartya Vigyanik**	Desh Bhagat University	March 6, 2025
Extension and field outreach activities such as lectures delivered in UGC sponsored Refresher courses/Orientation Courses/Inspire camps, etc.			
110	**Delivered two lectures at Refresher course**	Panjab University, Chandigarh	Feb., 2004
111	**Delivered two lectures at Refresher course**	H.P. University, Shimla	Jan., 2005
112	**Delivered two lectures at Refresher course**	H.P. University, Shimla	Nov., 2007
113	**Delivered a lecture on Reverse micellar formulations**	Kanazawa, Japan	18 July 2006
114	**Delivered a lecture on Effect of additives on reverse micellar formulations**	Tokyo Science University, Japan	19 July 2006
115	**Delivered a lecture on 'Nanotechnology Big things from a tiny world'**	Summer school Panjab University, Chandigarh	24 June 2008
116	**Delivered a lecture on 'Placement avenues after M.Sc.' Lecture series**	Placement Cell, Dept. Of Chemistry, Panjab University, Chandigarh	21 Sept. 2008
117	**Delivered two lectures**	Refresher course, H.P. University, Shimla	Dec. 1, 2008
118	**Delivered two lectures**	Refresher course, GNDU, Amritsar	Dec. 6, 2008
119	**Delivered a lecture on 'Placement avenues after M.Sc.'**	Lecture series, Placement Cell, Dept. Of Chemistry, Panjab University, Chandigarh	Sept. 2009
120	**Delivered two lectures**	Refresher course, H.P. U., Shimla	Nov. 28, 2009
121	**Delivered two lectures**	Refresher course, Panjab University, Chandigarh	Sept. 6-7, 2010
122	**Delivered two lectures**	Refresher course, H.P. U., Shimla	Dec. 3-4, 2010
123	**Delivered two lectures**	Inspire program, Shoolni university, Solan	Aug. 28, 2011
124	**Delivered two lectures**	Refresher course, H.P. U., Shimla	Sept.16, 2011
125	**Delivered lectures at**	Refresher course on Environment, P.U. Chandigarh	Mar. 5, 2012
126	**Delivered two lectures**	Refresher course, H.P. U., Shimla	July 26, 2013
127	**Delivered a lecture**	2nd INSPIRE Science Camp at Shoolini University, Solan	Nov. 13, 2010
128	**Delivered a lecture**	5th INSPIRE Science Camp at Shoolini University, Solan	Aug. 27, 2011
129	**Delivered a lecture**	19th INSPIRE Science Camp at Shoolini University, Solan	Oct. 9, 2014
130	**Delivered a lecture**	20th INSPIRE Science Camp at Shoolini University, Solan	Nov. 24, 2014
131	**Delivered a lecture**	21st INSPIRE Science Camp at Shoolini University, Solan	Dec. 24, 2014
132	**Delivered a lecture**	23rd INSPIRE Science Camp at Shoolini University, Solan	Aug. 10, 2015

133	**Delivered a lecture**	INSPIRE Science Camp at IEC University, Baddi	2015
134	**Delivered a lecture**	INSPIRE Science Camp at SDAM College, Dinanagar	Oct. 21, 2016
135	**Delivered a lecture**	27th INSPIRE Science Camp at Shoolini University, Solan	Nov. 29, 2016
136	**Delivered a lecture**	INSPIRE Science Camp at Akal University, Talwandi Sabo, Punjab	Jan. 18, 2017.
137	**Delivered a lecture**	INSPIRE Science Camp at Shoolini University, Solan	Sept 28, 2017
138	**Delivered a lecture**	INSPIRE Science Camp at Shoolini University, Solan	Dec. 20, 2017
139	**Delivered a lecture**	National Science day DAV University, Jallandhar	Feb. 28, 2018
140	**Delivered two lectures**	Inservice Teacher Training Programme for Lecturers/PGTs (School Cadre) at SCERT, Solan (H.P.)	May 28, 2018
141	**Delivered a lecture**	4th Batch of INSPIRE program at Laureate Institute of Pharmacy, Kathog, Jawalamukhi, Kangra	Jun.15-19, 2018
142	**Delivered a lecture**	Refresher Course, Academic Staff College, PU, Chandigarh	Aug. 31, 2018
143	**Delivered a lecture**	INSPIRE Science Camp at Shoolini University, Solan	Oct. 10, 2018
144	**Delivered a lecture**	INSPIRE Science Camp at Akal University, Talwandi Sabo	Nov. 10, 2018
145	**Delivered 4 lectures**	Refresher Course, Academic Staff College, Jammu	Dec. 7-8, 2018
146	**Delivered a lecture**	INSPIRE Science Camp at GITAM Vishakhapatanam	Dec. 12, 2018
147	**Delivered a lecture**	INSPIRE Science Camp at Shoolini University, Solan	Dec. 20, 2018
148	**Delivered a lecture**	INSPIRE Science Camp at DAV University, Jalandar	Jan. 8, 2019
149	**Delivered a lecture**	INSPIRE Science Camp at Shoolini University, Solan	June 27, 2019
150	**Delivered a lecture**	INSPIRE Science Camp at GITAM Vishakhapatanam	Dec. 9, 2019
151	**Keynote Lecture**	Interdisciplinary Refresher Course in Environment Studies, Panjab University, Chandigarh	Nov 17, 2021

20. Participation and contribution in National/International Fora in the area of your academic and professional expertise:

	Number(s)

Plenary Lectures / Invited Talks	***International***	26
	National	113
Congresses attended	***International***	02
	National	10
Examinership etc.	***International***	01
	National	25

21. Consulting experience:

S. No.	Client/Organization's name	Nature of assignment	Duration of assignment
1.	**Ecological Concepts Pvt Ltd**	Advisor	Feb, 2018- continue
2.	**Start up 'Ceyone Consultants"**	Advisor	April, 2020- continue

22. List of articles in popular magazines or newspapers:

S. No.	Date	Title	Name of Magazine/Newspaper
1.	May, 2015	Gold sensor for the detection of pollutants	Chandigarh Bhaskar
2.	May, 2015	Scientists Honoured by Haryana	The Hindu
3.	Oct. 2010	Surfactants: A Promising Building Block in NanoparticleSynthesis (**S.K. Mehta**, S Chaudhary)	Sci Topic magazine
4.	May 9, 2020	Developed an anti-viral spray to keep PPE safe.	Danik Bhaskar (Hindi)
5.	Aug., 2021	Panjab University Prof. appointed VC of the University of Ladakh	Hindustan Times News
6.	Nov., 2021	VC UoL is among world's top 2 percent scientists	Daily excelsior

23. Other Academic Credientials:

	Organisation	Area of Specialisation
Visiting Professor/ Adjunct faculty	Shoolini Univ. Solan, MAU Baddi	Physical Chemistry
Resource Person	H.P. Univ, Shimla, Punjabi Univ. Patiala, GNDU Amritsar, Shoolini Univ., Maharaja Agrasen Univ., Baddi	Nanotechnology/Chemistry
Others (Specify)	Many universities/colleges	Nanotechnology/Physical Chemistry

24. Involvement with Formulation of Academic Programmes:

S. No	New Academic Programmes formulated	Date of approval by Academic Council	Year of Introduction
1.	Undergraduate Choice based system in Chemistry	2015	2016
2.	B. Sc (Hons School) Chemistry	2010	2011
3.	M.Sc. (Hons. School) Chemistry	2010	2011
4	Ph.D. course	2010	2011

25. List of Publications: (Updated on 18.02.2025)

Sr. No.	Name of Journal	Number of publications	Impact factor	ISSN
1.	AAPS Pharm SciTech	2	3.4	1530-9932
2.	Acoustic Letters	2	0.8	0140-1599
3.	ACS Agricultural Science & Technology	2	2.4	2692-1952
4.	ACS Applied Bio Materials	1	4.7	2576-6422
5.	ACS Applied Nano Materials	2	5.3	2574-0970
6.	*ACS ES&T Water*	1	4.9	2690-0637
7.	ACS Omega	4	3.7	2470-1343
8.	*ACS Sustainable Resource Management*	1	--	2837-1445
9.	Acustica	3	1.35	1861-9959
10.	Advanced Materials Interfaces	1	5.4	2196-7350
11.	Advanced Powder Technology	1	4.2	0921-8831
12.	Advances in Cement Research	1	1.79	0951-7197
13.	Analyst	2	4.61	0003-2654
14.	Analytical Methods	2	2.7	1759-9679
15.	Applied Catalysis B: Environmental	1	20.3	0926-3373
16.	Applied Organometallic Chemistry	1	3.7	1099-0739
17.	Applied Surface Science	5	6.3	0169-4332
18.	Artificial Cells, Nanomedicine, and Biotechnology (IANB)	1	5.678	2169141X 21691401
19.	Asian Journal of Chemistry	1	4.568	0975-427X
20.	Bioinorganic chemistry and applications	1	4.7	1565-3633
21.	Biosensors and Bioelectronics	1	10.7	0956-5663
22.	Bio Nano Science	1	3.0	2191-1630
23.	Ceramics International	5	5.1	0272-8842
24.	Chem Cat Chem	1	3.8	1867-3899
25.	Chemical Communications	1	4.3	1359-7345
26.	Chemical Engineering Journal	4	13.4	1385-8947
27.	Chemical Physics Impact	1	3.8	2667-0224
28.	Chemical Physics Letters	1	2.8	0009-2614
29.	Chemistry and Physics of Lipids	2	3.4	0009-3084

30.	**Chemistry-An Asian Journal**	1	3.5	1861-471X
31.	**Chemistry Select**	3	2.307	2365-6549
32.	**Chemosphere**	1	--	1879-1298
33.	***Coatings***	2	3.12	2079-6412
34.	**Colloid and Polymer Science**	5	2.2	0303-402X
35.	**Colloid and Surfaces A**	20	4.9	0927-7757
36.	**Colloid and Surfaces B**	9	5.4	0927-7765
37.	**Coordination Chemistry Reviews**	1	20.3	0010-8545
38.	**Coronaviruses**	3	--	2666-7975
39.	**Critical Reviews in Analytical Chemistry**	2	5.5	1040-8347
40.	**Crystal Engineering Communications**	1	3.54	1466-8033
41.	**Crystal Growth and Design**	1	3.2	1528-7483
42.	**Current Pharmaceutical Analysis**	1	0.7	1573-4129
43.	**Current Research in Green and Sustainable Chemistry**	5	--	2666-0865
44.	**Dalton Transactions**	1	3.5	1477-9226
45.	**Dyes and Pigments**	1	4.1	0143-7208
46.	**ECS Meeting Abstracts**	1	--	2151-2043
47.	**Electroanalysis**	1	2.7	1521-4109
48.	**Electrochimica Acta**	2	5.5	0013-4686
49.	**Environment, Development and Sustainability**	1	4.7	1387-585X
50.	**Environmental Advances**	1	--	2666-7657
51.	**Environmental Chemistry Letters**	1	15.1	1610-3653
52.	**Environmental Nanotechnology, Monitoring & Management**	2	--	2215-1532
53.	**Environmental Pollution**	1	7.6	0269-7491
54.	**Environmental Research**	1	7.7	0013-9351
55.	**Environmental Science and pollution research**	3	5.8	1614-7499
56.	**European Archives of Paediatric Dentistry**	1	2.3	1996-9805
57.	**Expert Opinion on Therapeutic Patents**	1	5.4	1354-3776
58.	**Fluid Phase Equilibria**	6	2.77	0378-3812
59.	**Food Chemistry**	1	8.5	0308-8146
60.	**Food Control**	1	5.6	0956-7135
61.	**Food Hydrocolloids**	1	11.0	2667-0259
62.	**Frontiers in Environmental Science**	1	3.3	2296-665X
63.	**Fuel**	1	6.7	1873-7153
64.	**Heliyon**	1	3.4	2405-8440
65.	**IET Nanobiotechnology**	1	1.84	1751-8741
66.	**Indian J Pharm Sci**	2	0.72	0250-474X
67.	**Indian J. Heterocyclic Chemistry**	1	0.31	0971-1627
68.	**Indian Journal of Chemistry**	1	0.41	0975-0983

69.	**Inorganic Chemistry**	1	4.3	0020-1669
70.	**Inorganic Chemistry Communications**	4	4.4	1387-7003
71.	**Inorganica Chimica Acta**	3	2.7	0020-1693
72.	**International Data Series, Selected Data on Mixtures**	3	--	--
73.	**International Journal of Biological Macromolecules**	2	7.7	0141-8130
74.	**International Journal of Hydrogen Energy**	2	8.1	0360-3199
75.	**International Journal of Pharmaceutics**	4	6.51	0378-5173
76.	**International Nano Letters**	1	--	2008-9295
77.	**Journal Advances in Environmental and Engineering Research**	1	--	2766-6190
78.	**Journal of Alloys and Compounds**	11	5.8	0925-8388
79.	**Journal of Analytical Chemistry**	1	1.0	0003-2700
80.	**Journal of Applied Electrochemistry**	3	2.4	0021-891X
81.	**Journal of Biomedical Nanotechnology**	1	2.9	1550-7033
82.	**Journal of Biomolecular Structure & Dynamics**	2	2.7	0739-1102
83.	**Journal of Chemical & Engineering Data**	1	2.0	0021-9568
84.	**Journal of Chemical Education**	2	2.5	1938-1328
85.	**Journal of Chemical Society Faraday Transactions**	5	1.76	0956-5000
86.	**Journal of Chemical Thermodynamics**	16	2.2	0021-9614
87.	**Journal of Colloid and Interface Science**	20	9.4	0021-9797
88.	**Journal of Coordination Chemistry**	1	1.75	1029-0389
89.	**Journal of Dispersion Science and Technology**	1	1.9	0193-2691
90.	**Journal of Drug Delivery Science and Technology**	1	4.5	1773-2247
91.	**Journal of Drug Delivery and Therapeutics**	1	0.51	2250-1177
92.	**Journal of Electroanalytical Chemistry**	1	4.1	15726657
93.	**Journal of Electronic Materials**	2	2.2	0361-5235
94.	**Journal of Environmental Chemical Engineering**	1	7.4	2213-3437
95.	**Journal of Indian Chemical Society**	1	3.2	00194522
96.	**Journal of Luminescence**	3	3.3	0022-2313
97.	**Journal of Macromolecular Science, Part A Pure and Applied Chemistry**	1	2.1	1060-1325
98.	**Journal of Materials Chemistry A**	1	10.7	820938144
99.	**Journal of Materials Chemistry B**	2	6.1	2050-7518
100.	**Journal of Materials Chemistry C**	1	5.7	2050-7526
101.	**Journal of Materials Science**	2	3.5	0022-2461
102.	**Journal of Materials Science: Materials in Electronics**	2	2.8	1573-482X

103.	**Journal of Materials Research and Technology**	1	6.2	1941-1162
104.	**Journal of Medicinal Chemistry**	1	6.9	0022-2623
105.	**Journal of Molecular Catalysis A: Chemical**	1	3.9	1381-1169
106.	**Journal of Molecular Liquids**	15	5.3	0167-7322
107.	**Journal of Molecular Structure**	6	4.0	0022-2860
108.	**Journal of Nanoengineering and Nanomanufacturing**	1	0.29	2157-9334
109.	**Journal of Nanoparticle Research**	2	2.1	1388-0764
110.	**Journal of Nanoscience and Nanotechnology**	12	1.13	1533-4880
111.	**Journal of Nanostructure in Chemistry**	2	8.6	2193-8865
112.	**Journal of Organometallic chemistry**	9	2.1	0022-328X
113.	**Journal of Pharmaceutical Science**	3	3.7	1520-6017
114.	**Journal of Physical Chemistry B**	3	2.8	1089-5647
115.	**Journal of Physics: Conf. Series**	1	0.6	1742-6588
116.	**Journal of Porous Materials**	1	2.5	1573-4854
117.	**Journal of Solution Chemistry**	5	1.4	0095-9782
118.	**Journal of Thermal Analysis and Calorimetry**	3	4.62	1388-615
119.	**Journal of Water Process Engineering**	1	6.3	2214-7144
120.	**Journal of Cleaner Production**	1	9.8	0959-6526
121.	**Langmuir**	2	3.7	0743-7463
122.	**Material Focus**	1	--	2169-429X
123.	**Material Research Express**	1	1.8	2053-1591
124.	**Material Science and Engineering C**	1	7.328	0928-4931
125.	**Materials**	1	3.1	1996-1944
126.	**Materials Chemistry and Physics**	6	4.3	0254-0584
127.	**Materials Chemistry Frontiers**	1	6.0	2052-1537
128.	**Materials Letters**	1	3.42	0167-577X
129.	**Materials Research Bulletin**	1	5.3	0025-5408
130.	**Materials Science and Engineering: B**	1	3.9	0928-4931
131.	**Materials Science and Engineering: C**	1	8.06	1873-0191
132.	**Materials Today: Proceedings**	1	--	2214-7853
133.	**Microchemical Journal**	4	4.9	0026-265X
134.	**Microchimica Acta**	1	5.4	0026-3672
135.	**Molecular Simulation**	1	2.1	0892-7022
136.	**Molecules**	1	4.2	1420-3049
137.	**Mont. fur Chemie.**	1	1.7	0026-9247
138.	**Nanomaterials**	1	4.4	2079-4991
139.	**Nanoscale**	1	5.8	2040-3364
140.	**Nanoscale Advances**	2	4.6	2516-0230
141.	**Nanoscale Research Letters**	2	5.5	1931-7573

142.	**Nanoscience and Nanotechnology Letters**	2	1.128	1941-4900
143.	**Nano-structures and Nano-object**	2	5.454	2352-507X
144.	**Nanotechnology**	2	2.9	1361-6528
145.	**New Journal of Chemistry**	11	3.59	1144-0546
146.	**Next Nanotechnology**	1	--	2949-8295
147.	**Pharmaceutical Research**	1	4.2	0724-8741
148.	**Phosphorous, Sulfur, Silicon and related elements**	3	1.11	1563-5325
149.	**Physical Chemistry Chemical Physics**	3	3.67	1463-9076
150.	**Physical Review E**	4	2.2	1550-2376
151.	**Polyhedron**	4	3.05	0277-5387
152.	**Polyvinylchloride-based Blends**	1	--	--
153.	**Proceedings of International Conference on Frontiers in Nanoscience, Nanotechnology and their Application**	1	--	--
154.	**Progress in Colloid Polymer Science**	1	1.931	0340-255X
155.	**Progress in Material science**	1	33.6	0079-6425
156.	**Radiation Physics and Chemistry**	1	2.8	0969-806X
157.	**Recent Patents on drug Delivery & Formulation**	1	1.60	2212-4039
158.	**Reviews in Advanced Sciences and Engineering**	1	3.364	2157-913X
159.	**RSC Advances**	8	3.9	2046-2069
160.	**RSC Medicinal Chemistry**	1	4.1	2632-8682
161.	**Science of Advanced Materials**	9	7.821	1947-2935
162.	**Scientific Reports**	1	3.8	2045-2322
163.	**Sensor Letters**	2	--	1546-198X
164.	**Sensors and Actuators: B. Chemical**	11	8.0	0925-4005
165.	**Separation and Purification Technology**	6	8.2	1383-5866
166.	**SN applied sciences**	1	2.11	2523-3971
167.	**Spectrochimica Acta Part A: molecular andbiomolecular spectroscopy**	6	4.3	1386-1425
168.	**Superlattices and Microstructures**	1	2.7	0749-6036
169.	**Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry**	1	--	1553-3182
170.	**Synthetic communications**	1	1.8	1532-2432
171.	**Talanta**	2	5.6	0039-9140
172.	**Tetrahedron**	2	2.1	0040-4020
173.	**Thermochimica acta**	1	3.1	0040-6031
174.	**Topics in Catalysis**	5	2.8	1572-9028
175.	**TrAC Trends in Analytical Chemistry**	2	11.8	0165-9936
176.	**Ultrasonics Sonochemistry**	8	8.7	1350-4177
177.	**Vacuum**	1	3.8	0042-207X
178.	**Z. Physik. Chemie.**	1	3.0	2196-7156

List of Publications:
(Peer Reviewed-Yes)

Sr. No.	Title (Authors/Co-authors)	Journal (ISSN Number)	Impact factor
1	Ultrasonic velocity in ternary liquid mixtures (R. K. Dewan, J. Kaur and **S.K. Mehta**)	*Acoustic Letters, 9, 13-16 (**1985**) 269,*	0.8
2	Excess volumes of ethylbenzene + acetonitrile, + butyronitrile, + nitromethane, and + nitroethane (R. K. Dewan and **S.K. Mehta**)	*Journal of Chemical Thermodynamics, 18, 1015-1020 (**1986**), (ISSN0021-9614), https://DOI.org/10.1016/0021-9614(86)90014-5*	3.17
3	Excess molar volumes of ($xCH_2(CH_2)_3SO_2$ + (1-x) $C_nH_{2n+1}OH$) for n= 6, 7, 8, and 10 (R. K. Dewan and **S.K. Mehta**)	*Journal of Chemical Thermodynamics, 18, 697-702 (**1986**), (ISSN 0021-9614) https://DOI.org/10.1016/0021-9614(86)90073-X*	3.17
4	Excess volumes of n-octanol + acetonitrile, + butyronitrile, + nitromethane, and + nitroethane (R. K. Dewan and **S.K. Mehta**)	*Journal of Chemical Thermodynamics, 18, 101-106 (**1986**), (ISSN 0021-9614), https://DOI.org/10.1016/0021-9614(86)90125-4*	3.17
5	Excess volumes of (ethylbenzene + an alkanol) (R. K. Dewan and **S.K. Mehta**)	*Journal of Chemical Thermodynamics, 19, 819-822 **(1987**), (ISSN 0021-9614), https://DOI.org/10.1016/0021-9614(87)90028-0*	3.17
6	Viscositiesfor Binary Mixtures of Ethylbenzene with Normal alkanols (R. K. Dewan, C. M. Gupta and **S.K. Mehta**)	*ZeitschriftfürPhysikalischeChemie, 18, 221-228 (**1988**), (ISSN 2196-7156) https://DOI.org/10.1524/zpch.1988.160.Part_1_2.221*	3.0
7	Excess volumes of quinoline with Nitroalkanes: Interpretation by the Prigogine-Flory-Patterson Theory (R. K. Dewan, A. K. Sharma and **S.K. Mehta**)	*Journal of Solution Chemistry, 17, 459-465 (**1988**), (ISSN 0095-9782) https://DOI.org/10.1007/BF00647313*	1.4
8	Ultrasonic Study of (ethylbenzene + an alkanol) (R.K. Dewan, C.M. Gupta and **S.K. Mehta**)	*Acustica, 65, 245-253 (**1988**), (ISSN 1861-9959)*	1.35
9	Excess volumes and Viscosities of Mixtures of Dimethyl sulfoxide with Normal Alcohols at 40^oC (R.K. Dewan, S.P. Gupta and **S.K. Mehta**)	*Journal of Solution Chemistry 18, 13-22 (**1989**), (ISSN 0095-9782) https://DOI.org/10.1007/BF00646079*	1.4
10	Excess volumes of n-octanol + Ethanenitrile, + Butanenitrile, + Nitromethane, and + Nitroethane (R.K. Dewan and **S.K. Mehta**)	*International Data Series, Selected Data on Mixtures, 2, 148-151 (**1990**)*	--
11	Correlation between topological features and surface tension of binary liquid mixtures (R. K. Dewan and **S.K. Mehta**)	*MonatsheftefürChemie - Chemical Monthly 121, 593-600 **(1990)**, (ISSN 0026-9247) https://DOI.org/10.1007/BF00809761*	1.45
12	Topological Investigations of Molar Excess Volumes of Quinoline with Alkanols (R. K. Dewan, S. Madaan and **S.K. Mehta**)	*Journal of Solution Chemistry, 20, 233 **(1991)**, (ISSN 0095-9782) https://DOI.org/10.1007/BF00649531*	1.4

13	Excess volumes of Ethylbenzene + Some 1-Alkanols (C_6-C_{10}), + Ethanenitrile, + Butanenitrile, + Nitromethane, or + Nitroethane (R. K. Dewan and **S.K. Mehta**)	*International Data Series, Selected Data on Mixtures, 2, 98-105 (**1991**)*	--
14	Topological Investigations on the Association of Alkanols: Excess volume of Pyridine Alkanol (C_1-C_{10}) Mixture (R. K. Dewan, **S.K. Mehta**, R. Parashar and K. Bala)	*Journal of Chemical Society, Faraday Transactions 87(10), 1561 (**1991**) DOI: 10.1039/FT9918701561*	1.76
15	Excess volumes of Thiolane 1,1 -dioxide (Sulfolane) or Dimethyl Sulfoxide + Some 1-alkanols (C_6-C_{10}) (R. K. Dewan and **S.K. Mehta**)	*International Data Series, Selected Data on Mixtures, 4, 286 (**1991**)*	--
16	Topological Investigations of Ultrasonic Velocity of Binary Mixtures of Quinoline + Alkanols. R. K. Dewan (**S.K. Mehta** and J. Singh)	*Acustica 74, 284 (**1991**), (ISSN 1861-9959)*	1.35
17	Correlation between topological aspects and ultrasonic velocities of binary liquid mixtures (R.K. Dewan and **S.K. Mehta**)	*Acustica 76, 142 (**1992**), (ISSN 1861-9959)*	1.35
18	Topological Investigations on Association of Alkanols: Excess volumes of Acrylonitrile-Alkanols (C_1-C_{10}) at 308.15 K (R. K. Dewan, **S.K. Mehta**, R. Parashar and H. Kaur)	*Journal of Chemical Society, Faraday Transactions, 88(2), 227 (**1992**) DOI: 10.1039/FT9928800227*	1.76
19	Isentropic compressibilities of binary mixtures of Ethylbenzene with Nitroalkanes and nitriles (R. K. Dewan, **S.K. Mehta** and S.T. Ahmad)	*Acoustic Letters, 15(9), 193 **(1992)***	0.8
20	Ultrasonic speeds and Isentropic compressibilities of binary mixtures of DMSO with n-Alkanols (R. K. Dewan and **S.K. Mehta**)	*Asian Journal of Chemistry, 4, 152-160 (**1992**), ISSN (0975-427X)*	4.568
21	Dynamic Light Scattering. R. K. Dewan (**S.K. Mehta** and A. K. Bakhshi)	*Chemical Education, 24-29. (**1992**), (ISSN 1938-1328)*	3.208
22	Symmetry Operations of a Molecule (A. K. Bakhshi and **S.K. Mehta**)	*Chemical Education, 33-35 (**1993**), (ISSN 1938-1328)*	3.208
23	Percolation Phenomenon and the study of conductivity, viscosity and ultrasonic velocity in Microemulsions (**S.K. Mehta**, R. K. Dewan and K. Bala)	*Physical Review E, 50, 4759 (**1994**), (ISSN 1550-2376) DOI:https://DOI.org/10.1103/PhysRevE.50.4759*	2.2
24	Volumetric and transport properties in microemulsions and the point of view of percolation theory. (**S.K. Mehta** and K. Bala)	*Physical Review E, 51, 5732 (**1995**), (ISSN 1550-2376) DOI:https://DOI.org/10.1103/PhysRevE.51.5732*	2.2
25	Excess volumes and isentropic compressibilities of pyrrolidin-2-one-alkanol (C_1-C_5) binary mixtures (**S.K. Mehta**, R. K. Chauhan and R. K. Dewan)	*Journal of Chemical Society Faraday Transactions, 92, 1167 (**1996**). DOI: 10.1039/FT9969201167*	1.76

26	Partial molar volumes and isentropic compressibilities of mixtures of γ -butyrolactam (n=5) with higher alkanols (**S.K. Mehta**, R. K. Chauhan and R. K. Dewan)	*Journal of Chemical Society Faraday Transactions, 92, 4463 (**1996**) DOI: 10.1039/FT9969204463*	1.76
27	Excess molar enthalpies of pyrolidin-2-one with methanol, or ethanol, or propan-1-ol, or butan-1-ol, or pentan-1-ol at the temperature 303.15 K (**S.K. Mehta**, R. K. Chauhan and A. D. Tripathi)	*Journal of Chemical Thermodynamics, 29, 353 (**1997**), (ISSN 0021-9614) https://DOI.org/10.1006/jcht.1996.0163*	2.2
28	Ultrasonic velocity and Apparent Isentropic compressibilities in mixtures of non-electrolytes (**S.K. Mehta** and R. K. Chauhan)	*Journal of Solution Chemistry, 26, 295 (**1997**), (ISSN 0095-9782) https://DOI.org/10.1007/BF02768000*	1.4
29	Isentropic compressibility and transport properties of CTAB-Alkanol-Hydrocarbon-Water microemulsion systems (**S.K. Mehta** and Kawaljit)	*Colloid and Surfaces A, 136, 35 (**1998**), (ISSN 0927-7757) https://DOI.org/10.1016/S0927-7757(97)00321-X*	4.9
30	Excess molar enthalpies of pyrrolidin-2-one with higher alkanols at 303.15 K (**S.K. Mehta**, R.K. Chauhan and A. D. Triphati)	*Journal of Chemical Thermodynamics, 30, 1095 (**1998**), (ISSN 0021-9614) https://DOI.org/10.1006/jcht.1996.0163*	2.2
31	Apparent Molar Isentropic Compressibilities in Mixtures of γ -butyrolactam (n=5) with 2,2,2-trichloroethanol or 2,2,2-trifluoroethanol or 1,1,1,3,3,3-hexafluoro-2-propanol (**S.K. Mehta**, A. K. Sharma, R. Prakash and S. L. Chadha)	*Journal of Chemical Society Faraday Transactions, 94, 2565 **(1998)***	1.76
32	Microemulsion Systems Based on a C8/10 Alkyl Polyglucoside: A Reentrant Phase Inversion Induced by Alcohols. C. Stubenrauch (**S.K. Mehta**, B. Paeplow and G. H. Findenegg)	*Progress in Colloid and and Polymer Science, 111, 92 **(1998),** (ISSN 0340-255X) DOI: 10.1007/BFb0118116*	1.931
33	Phase Behaviour, Structural Effects, Volumetric and Transport Properties in Non-aqueous Microemulsion (**S.K. Mehta**, Kawaljit and K. Bala)	*Physical Review E., 59, 4317 **(1999),** (ISSN 1550-2376)*	2.2
34	Tween-based microemulsions: a percolation view (**S.K. Mehta** and K. Bala)	*Fluid Phase Equilibria 172, 197 **(2000),** (ISSN 0378-3812), https://DOI.org/10.1016/S0378-3812(00)00378-2*	2.77
35	Excess Molar Volumes of Some Partially Miscible Liquid Mixtures (R. Parashar, **S.K. Mehta** and A. Ali)	*Journal of Chemical Thermodynamics, 32, 711(**2000**), (ISSN 0021-9614), https://DOI.org/10.1006/jcht.1999.0643*	2.2
36	Volume and compressibility of mixtures of γ -butyrolactam (n=5) with nitro-compounds. (**S.K. Mehta** and R. K. Chauhan)	*Fluid Phase Equilibria, 187-188, 209 (**2001**), (ISSN 0378-3812)*	2.77
37	Thermodynamic investigation of surfactant aggregation in 2-pyrrolidinone (**S.K. Mehta**, S. Sharma and I. M. Joshi)	*Colloid and Surfaces A, 196, 259 (**2002**), (ISSN 0927-7757), https://DOI.org/10.1016/S0927-7757(01)01035-4*	4.9
38	Phase diagram and physical properties of a waterless sodium bis(2-	*Physical Review E, 65, 021502 (**2002**), (ISSN 1550-2376),*	2.2

	ethylhexylsulfosuccinate)–ethylbenzene - ethyleneglycol microemulsion: An insight into percolation (**S.K. Mehta** and Kawaljit)	*DOI:https://DOI.org/10.1103/PhysRevE.65.021502*	
39	Physicochemical properties in mixtures of Hexamethylphosphortriamide with 2,2,2-trichloroethanol or 2,2,2-trifluoroethanol or 1,1,1,3,3,3-hexafluoropropan-2-ol (**S.K. Mehta**, A. K. Sharma, K. K. Bhasin and R. Parkash)	*Fluid Phase Equilibria, 201, 203 (**2002**), (ISSN 0378-3812),* *https://DOI.org/10.1016/S0378-3812(02)00092-4*	2.77
40	Aqueous Solutions of some amphiphilic poly(ethylene oxide)-poly(propylene oxide)-poly(ethylene oxide) triblock copolymers. A thermodynamic study over a wide concentration range at temperatures between 288.15 and 328.15 K (S. Senkow, **S.K. Mehta**, G. Douheret, A. H. Roux and G. Roux-Desgranges)	*Physical Chemistry Chemical Physics, 4, 4472 (**2002**), (ISSN 1463-9076)* *DOI: 10.1039/B204404H (Paper) Phys. Chem. Chem. Phys., 2002, **4**, 4472-4480*	3.67
41	Gibbs Films of Semi Fluorinated Alkanes at the Surface of Alkane Solutions (P. Marczuk, P. Lang, G.H. Findenegg, **S.K. Mehta** and M. Moller)	*Langmuir, 18, 6830 (**2002**), (ISSN 0743-7463)* *https://DOI.org/10.1021/la025596d*	3.7
42	Effect of –CN group on isentropic compressibility and volumetric parameters of mixtures of γ – butyrolactam (n=5) and nitriles (**S.K. Mehta** and A. K. Sharma)	*Fluid Phase Equilibria, 205, 37 (**2003**), (ISSN 0378-3812)* *https://DOI.org/10.1016/S0378-3812(02)00269-8*	2.77
43	A New and Convenient route to 2,2'-Dipyridyl Diselenide/ditelluride and Some of their Alkyl/Aryl Derivatives (K. K. Bhasin, V. K. Jain, H. Kumar and S. Sharma, **S.K. Mehta** and J. Singh)	*Synthetic Communication 33(6), 977 (**2003**), (ISSN 1532-2432)* *https://DOI.org/10.1081/SCC-120003627*	1.8
44	Influence of substitution in the aromatic ring on the behaviour of thermodynamic properties of pyrrolidin-2-one and aromatic hydrocarbons (**S.K. Mehta**, G. Ram, S. Sharma and A. K. Sharma)	*Journal of Molecular Liquids 111, 133 (**2004**), (ISSN 0167-7322)* *https://DOI.org/10.1016/j.molliq.2003.12.010*	5.3
45	Effect of oxyethylene groups on the behaviour of thermodynamic properties of Pyrrolidin-2-one and Poly (ethylene glycols) (**S.K. Mehta**, G. Ram and A. K. Sharma)	*Fluid Phase Equilibria, 220, 153 (**2004**), (ISSN 0378-3812)* *https://DOI.org/10.1016/j.fluid.2004.03.007*	2.77
46	A convenient synthesis of some symmetrical and unsymmetrical diarylsulphur and selenium compounds. X-ray crystal structure of diphenylmethulseleno-2-propene and bis{p-chlorophenyl(phenyl)methyl}diselenide (K. K. Bhasin, N. Singh, R. Kumar, Deepali, **S.K. Mehta**, T. M. Klapoetke, M. J. Crawford)	*Journal of Organometallic Chemistry, 689,3327 (**2004**), (ISSN 0022-328X)* *https://DOI.org/10.1016/j.jorganchem.2004.07.040*	2.1
47	Kinetics of hydration of $2CaO{\cdot}SiO_2$–xMn_2O_3system (R. Parkash, **S.K. Mehta**, S. Dixit, S.C. Ahluwalia and J. M. Sharma)	*Thermochimica Acta, 424, 37-42 (**2004**), (ISSN 0040-6031)* *https://DOI.org/10.1016/j.tca.2004.05.006*	3.1
48	Behavior of Rifampicin in Association with ß-Cyclodextrin in Aqueous Media: A Spectroscopic	*Colloid and Polymer Science, 283, 532 (**2005**), (ISSN 0303-402X)*	2.2

	and Conductometric study (**S.K. Mehta**, K. K. Bhasin, N. Mehta and S. Dham)		
49	Synthesis and characterization of some α-naphthyl selenium/tellurium derivatives: X-ray crystal structure of benzyl-1-naphthyl selenide and diphenylmethyl-1-naphthyl selenide (K.K. Bhasin, N. Singh, Rishu, Shivani, Ganga Ram, **S.K. Mehta** and R. J. Butcher)	*Journal of Chemical Thermodynamics, 37, 791 (**2005**), (ISSN 0021-9614) https://DOI.org/10.1016/j.jorganchem.2005.09.033*	3.17
50	On the Temperature Percolation in w/o Microemulsion in the Presence of Organic Derivatives of Chalcogens (**S.K. Mehta**, S. Sharma and K. K. Bhasin)	*Journal of Physical Chemistry B, 109, 9751 (**2005**), (ISSN 1089-5647) https://DOI.org/10.1021/jp050052g*	2.8
51	Thermodynamics of aggregation of Tweens in the presence of Diclofenac sodium (**S.K. Mehta**, N. Bala and S. Sharma)	*Colloid and Surfaces A, 268, 90 (**2005**), (ISSN 0927-7757) https://DOI.org/10.1016/j.colsurfa.2005.06.013*	4.9
52	Interaction of Poly(ethylene glycol)-400 with Tetraethylammonium Bromide in Aqueous Media (**S.K. Mehta**, R. Jain, S. Sharma and K. K. Bhasin)	*Journal of Molecular Liquids, 122, 15 (**2005**), (ISSN 0167-7322) https://DOI.org/10.1016/j.molliq.2004.12.007*	5.3
53	Effects of progressive addition of oxyethylene groups on the thermodynamic properties of pyrrolidin-2-one and Tritons (**S.K. Mehta**, G. Ram and A. K. Sharma)	*Journal of Molecular Liquids, 122, 21 (**2005**), (ISSN 0167-7322) https://DOI.org/10.1016/j.molliq.2005.01.005*	5.3
54	Effect of temperature on critical micelle concentration and thermodynamic behavior of dodecyldimethylethylammonium bromide and dodecyltrimethyl ammonium chloride in aqueous media (**S.K. Mehta**, K. K. Bhasin, R. Chauhan and S. Dham)	*Colloid and Surfaces A, 255, 153 (**2005**), (ISSN 0927-7757) https://DOI.org/10.1016/j.colsurfa.2004.12.038*	4.9
55	Detection and spectrophotometric determination of some phenols (S. Dixit, R. Parkash and **S.K. Mehta**)	*Journal of Indian Chemical Society, 82, 945-946 (**2005**), (ISSN 00194522)*	3.2
56	Temperature-induced percolation behavior of AOT reverse micelles affected by poly(ethylene glycol)s(**S.K. Mehta** and S. Sharma)	*Journal of Colloid and Interface Science, 296, 690 (**2006**), (ISSN 0021-9797) https://DOI.org/10.1016/j.jcis.2005.09.035*	9.4
57	A comparative study of thermophysical and spectroscopic properties in mixtures of isomeric butanediol and N,N-dimethylformamide (**S.K. Mehta**, G. Ram, C. Mani and K. K. Bhasin)	*Journal of Chemical Thermodynamics, 36, 836 (**2006**), (ISSN 0021-9614) https://DOI.org/10.1016/j.jct.2005.09.001*	3.17
58	Micellar behavior of dodecyldimethylethyl ammonium bromide and dodecyltrimethyl ammonium chloride in aqueous media in the presence of Diclofenac Sodium (**S.K. Mehta**, K. K. Bhasin, A. Kumar and S. Dham)	*Colloid and Surfaces A, 20, 17 (**2006**), (0927-7757) https://DOI.org/10.1016/j.colsurfa.2005.11.071*	4.9
59	Synthesis and characterization of some α-naphthyl selenium/tellurium derivatives: X-ray crystal structure of benzyl-1-naphthyl selenide	*Journal of Organometallic Chemistry, 691, 621 (**2006**), (ISSN 0022-328X)*	2.1

	and diphenylmethyl-1-naphthyl selenide (K. K. Bhasin, N. Singh, Rishu, Shivani, Ganga Ram, **S.K. Mehta** and R. J. Butcher)	*https://DOI.org/10.1016/j.jorganchem.2005.09.033*	
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132	Removal of Coomassie Brilliant Blue R-250 Dye from Water Using _-Fe2O3 Nanoparticles (G. R. Chaudhary, P. Saharan, G. Kaur, **S.K. Mehta**, and S. Mor)	*Journal of Nanoengineering and Nanomanufacturing,2, 304-308 (**2012**), (ISSN 2157-9334) DOI: https://DOI.org/10.1166/jnan.2012.1088*	0.29
133	Formation of cyclodextrin-stabilized nanoemulsion/micromeulsion and exploiting their solubilization behavior (K. Kaur, N. Kaur and **S.K. Mehta**)	*RSC Advances, **2,** 8467-8477 **(2012),** (ISSN 2046-2069)*	3.9
134	Highly Sensitive and Selective Cyanide Ion Sensor Based on Modified ZnS Nanoparticles (**S.K. Mehta**, Khushboo and A. Umar)	*Electrochimica Acta, 81, 308-312 (**2012**), (ISSN 0013-4686) https://DOI.org/10.1016/j.electacta.2012.07.018*	5.5
135	Non-Enzymatic Glucose Sensor Based on Well-Crystallized ZnO Nanoparticles (K. Singh, A Umar, A. Kumar, G. R. Chaudhary, S. Singh and **S.K. Mehta**)	*Science of Advanced Materials, 4, 994-1000 (**2012**), (ISSN 1947-2935) DOI: https://DOI.org/10.1166/sam.2012.1399*	7.821
136	Effect of Cyclodextrin on the Behavior of Thermophysical and Spectroscopic Properties of	*Journal of Chemical Thermodynamics**,** 57, 266–275 **(2013**), (ISSN 0021-9614)*	3.17

	Binary Mixtures of (Isomeric Butanediol + Pyrrolidin-2-one) (G. R. Chaudhary, Shafila, A. Kumar and **S.K. Mehta**)	*https://DOI.org/10.1016/j.jct.2012.08.026*	
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138	Self-aggregation and solution behavior of synthesized organo transition metal (Co, Fe, Zn) amphiphilic complexes (**S.K. Mehta** and R. Kaur)	*Journal of Colloid and Interface Science, 393, 219–227 **(2013),** (ISSN 0021-9797) https://DOI.org/10.1016/j.jcis.2012.11.001*	9.4
139	Synthesis and Characterization of Zinc(II) and Cadmium(II) Mixed Ligand Trichloroacetate Complexes (S. Singh, D. Saini, **S.K. Mehta** and Choquesillo-Lazarte)	*Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, 43:3, 283-288 (**2013), (**ISSN 1553-3182) https://DOI.org/10.1080/15533174.2012.740722*	--
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141	Highly sensitive luminescent sensor for cyanide ion detection in aqueous solution based on PEG-coated ZnS nanoparticles (**S.K. Mehta**, Khushboo and A. Umar)	*Spectrochimica Acta Part A,105, 516–521 (**2013**), (ISSN 1386-1425) https://DOI.org/10.1016/j.saa.2012.12.068*	4.3
142	Synthesis and characterization of new 2-pyrimidyl chalcogen (S, Se, Te) compounds: X-ray crystal structure of bis(4,6-dimethyl-2-pyrimidyl)diselenide and 4,6-dimethyl-2-(phenylselanyl)pyrimidine (K. K. Bhasin, E. Arora, A. S. Grover, Jyoti, H. Singh, **S.K. Mehta**, A. K. K. Bhasin, C. Jacob)	*Journal of Organometallic Chemistry, 732, 137-141 (2013), (ISSN 0022-328X) https://DOI.org/10.1016/j.jorganchem.2013.02.014*	2.1
143	Photocatalytic Degradation of Alizarin Red S Using Simply Synthesized ZnO Nanoparticles (S. K. Kansal, R. Lamba, A. Umar, **S.K. Mehta**)	*Materials Letters, 106, 385-389 (**2013**), (ISSN 0167-577X) https://DOI.org/10.1016/j.matlet.2013.05.074*	3.42
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153	Photocatalytic degradation of Eriochrome Black T dye using well-crystalline anatase TiO_2 nanoparticles (S. K. Kansal, S. Sood, A. Umar, **S.K. Mehta**)	*Journal of Alloys and Compounds 581, 392–397 (**2013**) (ISSN 0925-8388) https://DOI.org/10.1016/j.jallcom.2013.07.069*	5.8
154	Well-Crystalline ZnO Nanostructures for the Removal of Acridine Orange and Coomassie Brilliant Blue R-250 Hazardous Dyes (G. R. Chaudhary, P. Saharan, A. Umar, **S.K. Mehta**, S. Mor)	*Science of Advanced Materials, 5, 1886-1894 (**2013**), (ISSN 1947-2935) DOI: https://DOI.org/10.1166/sam.2013.1701*	7.821
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165	Structural and interactional behavior of aqueous mixture of room temperature ionic liquid; 2-Hydroxyethyl-trimethylammonium L-Lactate (G. R. Chaudhary, S. Bansal, **S.K. Mehta**, A. S. Ahluwalia)	*Journal of Chemical Thermodynamic 76, 134-144 (**2014**), (ISSN 0021-9614)* *https://DOI.org/10.1016/j.jct.2014.03.021*	2.2
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171	γ-Fe_2O_3Nanospindles for Environmental Remediation: A Study on the Adsorption and Desorption Characteristics of Acridine Orange and Direct Red Dyes (G. R. Chaudhary, P. Saharan, A. Umar, **S.K. Mehta**, and S. Mor)	*Journal of Nanoscience and Nanotechnology, 14, 3545–3551 (**2014**), (ISSN 1533-4880)*	1.13
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173	Visible-light-driven photocatalytic degradation of Alizarin red S using Bi-doped TiO_2 nanoparticles (S. Sood, **S.K. Mehta**, A. Umar and, S. K. Kansal)	*New Journal of Chemistry, 38, 3127 (**2014**), (ISSN 1144-0546) DOI: 10.1039/C4NJ00179F*	3.59
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176	Synthesis of CeO_2-ZnO Nanoellipsoids as potential scaffold for the efficient detection of 4-nitrophenol (K. Singh, A.A. Ibrahim, A. Umar, A. Kumar, G. R. Chaudhary, S. Singh and **S.K. Mehta**)	*Sensors and Actuators: B. Chemical, 202, 1044-1050 (**2014**), (ISSN 0925-4005) https://DOI.org/10.1016/j.snb.2014.05.112*	8.0
177	Probing the self-aggregation behavior and counter ion distribution of a copper surfactant complex (R. Kaur, S. Gupta, **S.K. Mehta**, Y. Imai, T. Takiue, H. Matsubara and M. Aratono)	*New Journal of Chemistry,**38,**3925-3932**, (2014),** (ISSN 1144-0546) DOI: 10.1039/C4NJ00620H (Paper) New J. Chem.*	3.59
178	Aggregation behavior of Dioctadecyl dimethylammonium in mixed cationic surfactant system (A. Kumar, G. Kaur, G. R. Chaudhary and **S.K. Mehta**)	*Journal of Molecular Liquids, 198, 37-43 **(2014),** (ISSN 0167-7322) https://DOI.org/10.1016/j.molliq.2014.06.033*	5.3
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186	A comparison on the performance of zinc oxide and hematite nanoparticles for highly selective and sensitive detection of para-nitrophenol (K. Singh, G. R. Chaudhary, S. Singh and **S.K. Mehta**)	*Journal of Applied Electrochemistry, 45, 253–261 (**2015**) (DOI: 10. 1007/s10800-014-0762-3) DOI 10.1007/s10800-014-0762-3*	2.4
187	CeO_2-ZnO hexagonal nanodisks: Efficient material for the degradation of Direct Blue 15 dye and its simulated dye bath effluent under solar light (R Lamba, A. Umar, **S.K. Mehta**, S.K. Kansal)	*Journal of Alloys and Compounds, 620, 67-73 **(2015)** (ISSN: 0925-8388)* *https://DOI.org/10.1016/j.jallcom.2014.09.101*	5.8
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191	Investigating mixed micellar system of dodecylammonium acetate for solubilisation of curcumin (G. Kaur, N. Sharma and **S.K. Mehta**)	*Science of Advanced Materials 7 (8), 1546-1555 **(2015)** (ISSN 1947-2935)* *DOI: https://DOI.org/10.1166/sam.2015.2123*	7.821
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196	Noble Metal/Silica "raspberry" type Hybrids: Synthesis and Functionalization, (S. Goel, C. Giordano, M. Gradzielski and **S.K. Mehta**)	*Colloids and Surfaces A, 472, 50–56 (**2015**) (ISSN 0927-7757) https://DOI.org/10.1016/j.colsurfa.2015.02.035*	4.9
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198	Nevirapine loaded Poloxamer 407/Pluronic P123 mixed micelles: Optimization of formulation and in vitro evaluation (N. Jindal and **S.K. Mehta**)	*Colloid and Surfaces B, 129, 100-106 (**2015**), (ISSN 0927-7765) https://DOI.org/10.1016/j.colsurfb.2015.03.030*	5.4
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202	Nanoemulsion: A new medium to study the interactions and stability of curcumin with bovine serum albumin (K Kaur, R Kumar and **S.K. Mehta**)	*Journal of Molecular Liquids 209, 62-70 (**2015**), (ISSN: 0167-7322) https://DOI.org/10.1016/j.molliq.2015.05.018*	5.3
203	Comparative study of catalytic activity of ZrO2 nanoparticles for sonocatalytic and photocatalytic degradation of cationic and anionic dyes (P. Bansal, G.R. Chaudhary and **S.K. Mehta**)	*Chemical Engineering Journal, 280, 475–485(**2015**) (ISSN:1385-8947) https://DOI.org/10.1016/j.cej.2015.06.039*	13.4
204	An azaindole-hydrazine imine moiety as sensitive dual cation chemosensor depending on	*Sensors and Actuators: B. Chemical 222, 397-406 (**2016**), (ISSN 0925-4005)*	8.0

	surface plasmon resonance and emission properties (K. Kaur, S. Chaudhary, S. Singh, **S.K. Mehta**)	*https://DOI.org/10.1016/j.snb.2015.07.072*	
205	Utilization of ZnO Nanoflowers as Efficient Electrochemical Catalyst for the Oxidation of Hydrazine (K. Singh and **S.K. Mehta**)	*Sensor Letters, 13 (11), 1002-1006* ***(2015****), (ISSN 1546-198X) DOI: https://DOI.org/10.1166/sl.2015.3574*	--
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207	Visible-light-driven photocatalytic properties of self-assembled cauliflower-like AgCl/ZnO hierarchical nanostructures (R. Lamba, A. Umar, **S.K. Mehta**, W.A. Andersond, S. K. Kansal)	*Journal of Molecular Catalysis A: Chemical, 408, 189-201 (****2015),*** *(ISSN: 1381-1169) https://DOI.org/10.1016/j.molcata.2015.07.016*	--
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256	The effect of the presence of Sodium bis-(2-ethylhexyl) sulfosuccinate (AOT) on the interactions between Sodium dodecyl sulfate (SDS) and protein papain (**S.K. Mehta**, Bhawna, Rekha, S.K.Kansal and A.0. Ibhadon)	*Journal of Molecular Liquids 248* ***(2017)*** *751–758 (ISSN: 0167-7322) https://DOI.org/10.1016/j.molliq.2017.10.083*	5.3
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297	Experimental Validation of Biocompatible Nanostructured Lipid Carriers of Sophorolipid: Optimization, Characterization and In-vitro Evaluation (R Kanwar, M Gradzielski, S Prevost, MS Appavou, **S.K. Mehta**)	*Colloids and Surfaces B: Biointerfaces, 181, 845-855 (**2019**)* *https://DOI.org/10.1016/j.colsurfb.2019.06.036*	5.4
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310	Enhanced solar light mediated photocatalytic degradation of brilliant green dye in aqueous phase using BiPO4 nanospindles and MoS_2-$BiPO_4$ nanorods (M. Kaur, A. Umar, **S.K. Mehta**, S. K. Kansal, M.A. Khan and H Algarni)	*Journal of Materials Science: Materials in Electronics**,** 30 (23), 20741-20750 (**2019**) https://DOI.org/10.1007/s10854-019-02441-3*	2.8
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313	Colorimetric detection of mercury ions based on anti-aggregation of gold nanoparticles using 3, 5-dimethyl -1-thiocarboxamidepyrazole (R Kataria, K Sethuraman, D Vashisht, A Vashisht, **S.K. Mehta**, A Gupta)	*Microchemical Journal 148, 299-305 (**2019**) https://DOI.org/10.1016/j.microc.2019.04.068*	4.9
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319	Mechanistic insights of enhanced photocatalytic efficiency of SnO_2-SnS_2 heterostructures derived from partial sulphurization of SnO_2 (Sunaina, K. K. Yadav, Ankush, S. K. Guchhait, K. Sood, **S.K. Mehta**, A. K. Ganguli, M. Jha)	*Separation and Purification Technology, 242, 116835 (**2020**) https://DOI.org/10.1016/j.seppur.2020.116835*	8.2
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326	Curcumin nanoemulsion as a biocompatible medium to study the metal ion imbalance in a biological system (R. Kumar, S. Uppal, K. Kaur, **S.K. Mehta**)	*Journal of Molecular Liquids 314, 15 113611* ***(2020)*** *https://DOI.org/10.1016/j.molliq.2020.113611*	5.3
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329	Novel Molybdenum oxide - Starbon Catalyst for Waste-water Remediation (J. Kaur, K. Kaur. **S.K. Mehta**, A. Matharu)	*J. Material Chemistry A, 8, 14519 – 14527* ***(2020)*** *DOI: 10.1039/D0TA05388K*	10.7
330	Synthesis and Characterizations of Nitrogen (N) Doped Strontium Titanate ($SrTiO_3$) Nanoparticles for Enhanced Visible Light Driven Photocatalytic Degradation (Q.I. Rahman, S. Hasan, A. Ali, **S.K. Mehta**, M.A. Raja, N. Ahmad, A.R. Khan, M. Muddassir)	*Journal of Nanoscience and Nanotechnology, 20 (10) 6475-6481(7)* ***(2020)*** *https://DOI.org/10.1166/jnn.2020.18591*	1.13
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333	$Yb(OTf)_3$ Catalyzed and di-tert-Butyl Dicarbonate Mediated Decarboxylative Etherification and Esterification Reaction (A. Kaur, A.Pannu, D. Brar, **S.K. Mehta**, D. Salunke)	*ACS Omega* (***2020)*** 5, 33, 21007–21014 *https://DOI.org/10.1021/acsomega.0c02516*	3.7
334	Low Temperature Method for Synthesis of Fe_2O_3 and their Electrocatalytic Properties (S. Rana, K. K. Yadava, K. Sood, Ankusha, **S.K. Mehta**, Menaka Jha)	*Electroanalysis (**2020)** 32, 2528-2534 DOI: 10.1002/elan.202060146*	2.7
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336	Reply to the 'Comment on "Physicochemical stimuli as tuning parameters to modulate the structure and stability of nanostructured lipid carriers and release kinetics of encapsulated	*Journal of Materials Chemistry B **(2020)*** 44, 10209-10210 *DOI: https://DOI.org/10.1039/C9TB01330J*	6.1

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337	Insights of enhanced oxygen evolution reaction of nanostructured cobalt ferrite surface (S. Rana, K. K. Yadav, S.K. Guchhait, S. T. Nishanthi, **S.K. Mehta**, M. Jha)	*Journal of Materials Science, 56 (14), 8383-8395 (**2020**) https://DOI.org/10.1007/s10853-020-05629-9*	3.5
338	Synthesis, Crystal and DFT studies of Zn/Co complexes of DHA using ligand exchange approach (N. Kumar, J. Sindhu, Y. Patil, S.K. Sharma, B. Pani, **S.K. Mehta**, R. Kataria)	*Inorganic Chemistry Communications **(2020)*** 122:108280 *https://DOI.org/10.1016/j.inoche.2020.108280*	4.4
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340	Proficiency of Nanostructured Lipid Carriers for the Formulation of Amphiphilic Bile Acid Oligomers (P. Singla, R. Kanwar, R. Sharma, **S.K. Mehta** and D.B. Salunke)	*Colloids and Surfaces A, **(2020)*** 611:125841 *https://DOI.org/10.1016/j.colsurfa.2020.125841*	4.9
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342	Crystal chemistry and physicochemical investigation of aliovalent substituted SnO_2 nanoparticles (D. Sharma, S. Tripathi, R. S. Panwar, G. Dhillon, A.K. Bhatia, D. Vashisht, **S.K. Mehta**, N. Kumar)	*Vacuum, 184, 109925 **(2020)** https://DOI.org/10.1016/j.vacuum.2020.109925*	3.8
343	Insights of enhanced oxygen evolution reaction of nanostructured cobalt ferrite surface (Supriya Rana, K. K. Yadav, Sujit Kumar Guchhait, S. T. Nishanthi, **S.K. Mehta**, Menaka Jha)	*Journal of Materials Science 56 (14), 8383-8395, **2021** https://DOI.org/10.1007/s10853-020-05629-9*	3.5
344	TLR2 Agonistic Small Molecules: Detailed Structure–Activity Relationship, Applications, and Future Prospects (A. Kaur, D. Kaushik, S. Piplani, **S.K.Mehta**, N.Petrovsky and D.B. Salunke**)**	*Journal of Medicinal Chemistry 2020 https://DOI.org/10.1021/acs.jmedchem.0c01627*	6.9
345	Synthesis, structural and pharmacological exploration of 2-(3, 5-dimethyl-1*H*-pyrazol-1-yl)-acetophenone oximes and their silver complexes (T. Sharma, R. Kumar, S. C. Sahoo, J. Sindhu, J. Singh, B. Singh, **S.K. Mehta**, A. Umar, T. S. Saini, V. Kumar, R. Kataria)	*Polyhedron 195, 114972 **2021** https://DOI.org/10.1016/j.poly.2020.114972*	3.05
346	Small-angle x-ray scattering as an effective tool to understand the structure and rigidity of the reverse micelles with the variation of surfactant	*Journal of Molecular Liquids, 115302, **2021** https://DOI.org/10.1016/j.molliq.2021.115302*	5.3

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347	Antimicrobial Resistance: The Potent Enemy Lurking Behind COVID-19 (R. Kanwar, A. Kumar, J. Rathee, **S.K. Mehta**)	*Coronaviruses, 2(9), 12, **2021***	--
348	Multifaceted Dimensions of Potent Nanowagons: A Comprehensive Review (D. Jamwal, A. Sharma, R. Kanwar, **S.K. Mehta**)	*Materials Chemistry Frontiers,5**,** 2967-2995 **2021** DOI: 10.1039/D0QM00950D*	6.0
349	Eucalyptus Oil based Nanoemulsion: A Potent Green Nanowagon for Controlled Delivery of Emamectin Benzoate (Amit Kumar, R. Kanwar and **S.K. Mehta**)	*ACS Agricultural Science &Technology,*1, 2, 76–88 (***2021)*** *https://DOI.org/10.1021/acsagscitech.0c00061*	2.4
350	Solvent controlled synthesis of quercetin loaded CuS nanostructure: A versatile treatment against harmful bacteria and carcinogenic organic moiety in water (K. Mansi, R. Kumar, J. Kaur, S. Devi, **S.K. Mehta**)	*Journal of Molecular Liquids, 332, 115834 **2021** https://DOI.org/10.1016/j.molliq.2021.115834*	5.3
351	Biosynthesis driven dysprosium oxide nanoparticles as a sensor for picric acid (A. Jain, A. Sharma, P. Gupta, S. Wadhawan, **S.K. Mehta**)	*Current Research in Green and Sustainable Chemistry**,** 1(2), 76-88, **2021** https://DOI.org/10.1016/j.crgsc.2021.100080*	--
352	Biosynthesis of Silver Nanospheres, Kinetic Profiling and their application in the Optical Sensing of Mercury and Chlorite ions in aqueous solutionsCorresponding (D. Vashisht; S. Sangar; M. Kaur; E. Sharma; A. Vashisht; A. O. Ibhadon; S. Sharma, **S.K. Mehta**, K. Singh)	*Environmental Research, 197, 111142 **(2021)** https://DOI.org/10.1016/j.envres.2021.111142*	7.7
353	Biogenic synthesis of non-toxic Iron oxide NPs via Syzygium aromaticum for the removal of methylene blue (A. Jain, S. Wadhawan, **S.K. Mehta**)	*Environmental Nanotechnology, Monitoring & Management,16, 100464 **(2021)** https://DOI.org/10.1016/j.enmm.2021.100464*	--
354	Surface photosensitization of ZnO by ZnS to enhance the photodegradation efficiency for organic pollutants (Sunaina, S. Devi, S. T. Nishant, **S.K. Mehta**, AK Ganguli, M. Jha)	*SN applied sciences, **2021** | https://DOI.org/10.1007/s42452-021-04643-z*	2.11
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358	Efficient electrochemical sensor based on PEG@CdS nanoparticles for detection of TNT (Khushboo, Ramakrishna and **S.K. Mehta**)	*Current Research in Green and Sustainable Chemistry. 4, 100166,* ***2021***	--
359	Effect of synthesis methods and conditions on properties and applications of carbon dots for the detection of potential water contaminants: A Review (Kaur H, Sareen S, Verma M, Vashisht A, Sharma A, Kataria R, **S.K. Mehta**, Park J, Mutreja V.)	*Critical Reviews in Analytical Chemistry, 1-24,* ***2021***	5.5
360	Influence of Ce^{3+} Modification on Physicochemical Characteristics of SnO_2 Nanoparticles (A. Vashisht, G. Dhillon, R. S. Panwar, A. K. Bhatia, S. Tripathi, S. Bhardwaj, N. Sharma, D. Vashisht, **S.K. Mehta** and N. Kumar)	*Journal of Electronic Materials 50, 6344-6352* ***(2021)*** *https://DOI.org/10.1007/s11664-021-09166-2*	2.2
361	Metal organic framework as "turn-on" fluorescent sensor for Zr(IV) ions and selective adsorbent for organic dyes (Kirandeep, A. Kumar, A. sharma, S. C. Sahoo, E. Zangrando, V. Saini, R. Kataria, **S.K. Mehta**)	*Microchemical Journal 171* ***(2021)*** *106824* *https://doi.org/10.1016/j.microc.2021.106824*	4.9
362	Synthesis, structural and pharmacological exploration of 2-(3, 5-dimethyl-1*H*-pyrazol-1-yl)-acetophenone oximes and their silver complexes (Tulika sharma, Rakesh Kumar, Subash Chandra Sahoo, Jayant Sindhu, Joginder Singh, Bijender Singh, **S.K. Mehta**, Ahmad Umar, Tej Singh Saini, Vinod Kumar, Ramesh Kataria)	*Polyhedron Volume 195,* ***2021****, 114972* *https://doi.org/10.1016/j.poly.2020.114972*	3.05
364	Construction of Multifunctional NH_2-UiO-66 Metal Organic Framework: Sensing And Photocatalytic Degradation of Ketorolac Tromethamine And Tetracycline In Aqueous Medium (M Kaur, **S.K. Mehta**, SK Kansal)	*Environmental Science and pollution research,* ***(2021)*** *https://doi.org/10.1007/s11356-022-18629-w*	5.8
365	Hematite dysprosium oxide nanocomposites biosynthesized via greener route for ciprofoxacin removal and antimicrobial activity (A. Jain, A. Sharma, A. Kapur, S. Wadhawan, M. Garg, S. K. Pandey, S. Singh, **S.K. Mehta**)	*Journal of Nanostructure in Chemistry* ***(2021)****, 11, 437-453* *https://doi.org/10.1007/s40097-020-00379-1*	8.6
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377	Preparation of α-Tocopherol based nanoemulsion for efficacious delivery of Methotrexate (J Rathee, R Kanwar, L Kumari, SV Pawar, DB Salunke, **S. K. Mehta**)	*Journal of Dispersion Science and Technology, 44 (8), 1490-1499* ***(2023)*** *https://doi.org/10.1080/01932691.2021.2022491*	1.9
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381	Combined delivery of TLR2 and TLR7 agonists by Nanostructured lipid carriers induces potent vaccine adjuvant activity in mice (A Kaur, R Kanwar, D Kaushik, I G.Sakala, Y Honda-Okubo, N Petrovsky, D. B.Salunke, **S. K.Mehta**)	*International Journal of Pharmaceutics 613* ***(2022)*** *121378 https://doi.org/10.1016/j.ijpharm.2021.121378*	6.51
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427	Tungsten oxide nanostructures peculiarity and photocatalytic activity for the efficient elimination of the organic pollutant (D Jamwal, V Mutreja, Rahul, **SK Mehta**, A Katoch, SS Kim)	*Environmental Science and Pollution Research, 1-12 (**2023**)* *https://doi.org/10.1007/s11356-023-27891-5*	5.8
428	Encapsulation of St. John's Wort extract in β-Cyclodextrin carrier: In-vitro antioxidant, antimicrobial and Caco-2 cell viability studies (M. Dudi, K. Sharma; S. K. Pandey, **S.K. Mehta**)	*Journal of Molecular Structure 1287, 135656 (2023)* *https://doi.org/10.1016/j.molstruc.2023.135656*	4.0
429	CeO_2 quantum dots decorated g-C_3N_4 nanosheets: A potential scaffold for fluorescence sensing of heavy metals and visible-light driven photocatalyst (M. Kaur, S. Singh, **Surinder Kumar Mehta**, S. K. Kansal, A. Umar, A. Ibrahim, S. Baskoutas)	*Journal of Alloys and Compounds 960, 170637 (**2023**)* *https://doi.org/10.1016/j.jallcom.2023.170637*	5.8
430	Preparation of α-Tocopherol based nanoemulsion for efficacious delivery of Methotrexate (J. Rathee, R. Kanwar, L. Kumari, S.V.Pawar, D. B. Salunke, **S. K. Mehta**)	*Journal of Dispersion Science and Technology, 44, 8 (**2023**)* *https://doi.org/10.1080/01932691.2021.2022491*	1.9

432	Evaluating the pre-treatment protocol required to produce an effective carbonized waste adsorbent for organic pollution control (Priyanka, D. Vashisht, M. J Taylor, **S. K. Mehta**)	*Frontiers in Environmental Science (2023) https://doi.org/10.3389/fenvs.2023.1224388*	3.3
433	Effect of Synthesis Methods and Conditions on Properties and Applications of Carbon Dots for the Detection of Potential Water Contaminants: A Review (Hardeep Kaur, Shweta Sareen, Meenakshi Verma, Aseem Vashisht, Ajay Sharma, Ramesh Kataria, SK Mehta, Jeongwon Park, Vishal Mutreja)	*Critical Reviews in Analytical Chemistry, 1-14 (2023) https://doi.org/10.1080/10408347.2021.1977608*	5.5
434	Cobalt-based coordination polymer imitating nanozymatic Peroxido-Reductase activity for specific and sensitive detection of Fe(II) ions (Indu Sharma, Ajay Kumar, Jaspreet Kaur, Sanjay Mehra, Arvind Kumar, Suresh Kumar Sharma, Surinder Kumar Mehta, Ramesh Kataria)	*Inorganic Chemistry Communications (**2024**) 159, 111784 https://doi.org/10.1016/j.inoche.2023.111784*	4.4
435	Synthesis of Polyhedral Zirconia Nanoparticles for The Photocatalytic Degradation of Anionic Congo Red Dye Under Visible Light Irradiation (K Rajput, KJ Kaur, D Devvrat, **SK Mehta**, S Sareen, MD Sharma)	*Topics in Catalysis, (**2024**)1-12 https://doi.org/10.1007/s11244-023-01897-2*	2.8
436	Detection and Sorption of Heavy Metal Ions in Aqueous Media using Zn-Based Luminescent Metal-Organic Framework (A Kumar, K Arya, S Mehra, A Kumar, **SK Mehta**, R Kataria)	*Separation and Purification Technology (**2024**) 333, 125875 https://doi.org/10.1016/j.seppur.2023.125875*	8.2
437	Synthesis of polypyrrole (PPY) functionalized halloysite nanotubes (HNTs): An elctrochemical sensor for ibuprofen (G Kaur, AE Toppo, **SK Mehta**, S Sharma)	*Applied Surface Science, (**2024**) 652, 159280 https://doi.org/10.1016/j.apsusc.2023.159280*	6.3
438	Enhanced Wastewater Remediation using Mesoporous Activated Wheat Straw Biochars: A Dye Removal Perspective (Priyanka; D. Vashisht, A. Ibhadon, **S.K. Mehta**, M. Taylor)	*ACS Sustainable Resource Management **2024** https://doi.org/10.1021/acssusresmgt.3c00109*	--
439	Solar-driven S-scheme $Zn_{0.5}Cd_{0.5}S/MoS_2$ composite for photocatalytic ketorolac tromethamine degradation and hydrogen generation coupled with benzyl alcohol oxidation (P.Sehrawat, A. Ra, S. Singh, **S.K. Mehta**, S.S.Bhinder, S. K. Kansal)	*International Journal of Hydrogen Energy 62 (2024) 17-30 https://doi.org/10.1016/j.ijhydene.2024.03.036*	8.1
440	A highly sensitive and selective Zn-based luminescent MOF for specific detection of trinitrotoluene in aqueous phase (K.Arya, A. Kumar, I. Sharma, S. Singh, **S.K. Mehta**, S.K. Kansal, R. Kataria)	*Journal of Molecular Structure (2024**) 1307,** 138008 https://doi.org/10.1016/j.molstruc.2024.138008*	4.0

440	Tailoring crystalline Mn_5O_8 nanostructures: Kinetic control and stabilization for enhanced electrocatalytic O_2 evolution (S Rana, ABS Usmani, S Devi, R Wadhwa, KK Yadav, **S.K.Mehta**, M. Jha)	*Fuel (2024) 367, 131485* *https://doi.org/10.1016/j.fuel.2024.131485*	6.7
441	Oxalate-mediated synthesis of hybrid nickel cobalt-based nanostructures for boosting water and urea electrooxidation efficiency (S Rana, KK Yadav, S Devi, **SK Mehta**, M Jha	*Journal of Alloys and Compounds, 990, 174241 2024* *https://doi.org/10.1016/j.jallcom.2024.174241*	5.8
442	Aromatic salt induced modulations in micellization behavior of amide functionalized surface-active ionic liquids: The role of cationic head group (A Kaur, G Singh, **SK Mehta**, S Singh, TS Kang)	*Journal of Molecular Liquids, 125219 (2024)* *https://doi.org/10.1016/j.molliq.2024.125219*	5.3
443	Preserving Plum Perfection: Buckwheat Starch Edible coating with xanthan gum and lemongrass essential oil (H Bansal, HP Singh, S Singh, A Sharma, J Singh, K Kaur, **SK Mehta**)	*International Journal of Biological Macromolecules 133239 (2024)* *https://doi.org/10.1016/j.ijbiomac.2024.133239*	7.7
444	Hierarchical nanostructure engineering of 3D nickel cobaltite ultrafine nanoparticles assemblies for synergistic electrocatalytic water and urea oxidation (S Rana, SK Guchhait, KK Yadav, S Devi, **SK Mehta**, M Jha)	*Journal of Electroanalytical Chemistry, 118378 (2024)* *https://doi.org/10.1016/j.jelechem.2024.118378*	4.1
445	Luminescent Zn-MOF@ COF hybrid for selective decontamination of Cu (II) ions and methylene blue dye in aqueous media (A Kumar, K Arya, S Mehra, A Kumar, **SK Mehta**, R Kataria)	*Separation and Purification Technology 340, 126756 (2024)* *https://doi.org/10.1016/j.seppur.2024.126756*	8.2
446	A comprehensive review of varied applications of modified halloysite nanocomposites (G Kaur, S Gupta, V Prakash, RD Rodriguez, E Sheremet, **SK Mehta**, S Sharma)	*Nano-Structures & Nano-Objects 39, 101230* *https://doi.org/10.1016/j.nanoso.2024.101230*	--
447	Synergistic enhancement of photocatalytic activity in ZnS/P-doped-MoS_2 composite for hydrogen generation simultaneously oxidation of benzyl alcohol through water splitting and dye degradation (P Sehrawat, **SK Mehta**, SK Kansal)	*International Journal of Hydrogen Energy 80, 573-585 (2024)* *https://doi.org/10.1016/j.ijhydene.2024.07.147*	8.1
448	Discrimination and analytical profiling of colored printed documents using ATR-FTIR spectroscopy coupled with explorative and predictive statistical analysis: Part I (A Tomar, RR Gupta, MK Choudhary, S Sachar, **SK Mehta**, S Sharma)	*Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 322, 124839 (2024)* *https://doi.org/10.1016/j.saa.2024.124839*	4.3
449	Au nanoparticles decorated graphitic carbon nitride nanosheets as a sensitive and selective fluorescence probe for Fe^{3+} and dichromate ions in aqueous medium (Arushi, A Sharma, A Arora, N Mehta, R Kataria, **SK Mehta**)	*Chemosphere, 142834 (2024)* *https://doi.org/10.1016/j.chemosphere.2024.142834*	--

450	Non-enzymatic g-C_3N_4 supported CuO derived-biochar based electrochemical sensors for trace level detection of malathion (Waribam Stella Devi, Ranjeet Kaur, Aashima Sharma, Saks hi Thakur, **S.K. Mehta**, Vaseem Raja, Farid S. Ataya)	*Biosensors and Bioelectronics, 116808 (2025)* *https://doi.org/10.1016/j.bios.2024.116808*	10.7
451	Cleaning Up Metal Contamination after Decades of Energy Production and Manufacturing: Reviewing the Value in Use of Biochars for a Sustainable Future (Priyanka, Isobel E. Wood, Amthal Al-Gailani, Ben W. Kolosz, Kin Wai Cheah, Devika Vashisht, **Surinder K. Mehta** and Martin J. Taylor)	*Sustainability **2024*** *https://doi.org/10.3390/su16208838*	3.3
452	Nanoemulsion as an effective delivery vehicle for essential oils: Properties, formulation methods, destabilizing mechanisms and applications in agri-food sector (A Kumar, R Kanwar, **SK Mehta**)	*Next Nanotechnology, 7, 100096, 2025* *https://doi.org/10.1016/j.nxnano.2024.100096*	--
453	Physico-chemical characterization of coal combustion by-products derived from thermoelectric power plants (S Mor, N Vig, **S K Mehta**, K Ravindra)	*Environment, Development and Sustainability, 1-21, 2024* *https://doi.org/10.1007/s10668-024-05317-7*	4.7
454	Dual-functional luminescent Zn-MOF@MCHS nanocomposite for TNP detection and copper (II) adsorptive removal (I Sharma, A Kumar, K Arya, S Mehra, A Kumar, **SK Mehta**, R Kataria)	*Separation and Purification Technology, 129538, 2024* *https://doi.org/10.1016/j.seppur.2024.129538*	8.2
455	Comparative study of luminescent Cd-MOF and Cd-MOF@HNT nanomaterials for the detection of hydroxyl-functionalized nitroaromatic compounds (Kushal Arya, Sanjay Mehra, Ajay Kumar, Vaneet Saini, Arvind Kumar, **Surinder Kumar Mehta**, and Ramesh Kataria)	*New Journal of Chemistry,2024, **48**, 20018-20033* *DOI: 10.1039/D4NJ04352A*	2.7
456	Fabrication and application of buckwheat starch-based sustained-release composite films infused with curry leaf essential oil/β-cyclodextrin micro-capsules for preservation of green grapes (H Bansal, A Sharma, SSingh, **S.K. Mehta**)	*Food Hydrocolloids, 159, 2025, 110666* *https://doi.org/10.1016/j.foodhyd.2024.110666*	11.0
457	Enhancing grape preservation: The synergistic effect of curry leaf essential oil in buckwheat starch-chitosan composite coating (H.Bansal, S. Singh, A.Sharma, K.Kaur, K.Yadav, M.Bishnoi, J.S ingh, **S.K. Mehta**)	*Food Control, 169, 2025, 111001* *https://doi.org/10.1016/j.foodcont.2024.111001*	5.6

458	Light-assisted synergistic effect of Zn-MOF@ rGO nanocomposite for methylene blue degradation and toxicity analysis to water reclamation (K Arya, A Kumar, A Sharma, K Thakur, R Kumar, **S.K. Mehta**, S Singh, V. Kumar, R. Kataria)	*Inorganic Chemistry Communications 173, 2025, 113768* *https://doi.org/10.1016/j.inoche.2024.113768*	4.4
459	Proficiency of Pluronic Based Niosomes as an Effective Nano-carrier for the Formulation of Toll-Like Receptor-7/8 Agonists (J. Rathee, K. Kumar, A. Keluskar, D. Kaushik, S. Kumar, R. Kanwar, M. T. Patil, S. K. Mehta, D. B. Salunke, S. V. Pawar)	*Journal of Drug Delivery Science and Technology* *Accepted 2025*	4.5
460	Optimization and Stability of Geraniol Nanoemulsion Stabilized Synergistically Using Mixed Biosurfactant System of Saponin and Lecithin (A. Kumar, M. Gradzielski, R. Kanwar, S.K.Mehta)	*Langmuir, 2025* *https://doi.org/10.1021/acs.langmuir.4c04732*	3.7

Citation Indices:

Citations:	**16923**
h - Index:	**70**
i10 - Index:	**324**

26. Patents:

1. **"A Metalosome Assembly and a process for preparation thereof",** Gurpreet Kaur, Rekha Bhar and **Surinder Kumar Mehta** (Indian Patent Application No. 4055/DEL/2015 Filed on: December 11, 2015; Granted Patent no. 333028, Date of Grant: 26/02/2020).

2. **"Sophorolipid based Nanostructured lipid carriers targeted for drug delivery purposes",** Rohini Kanwar and **Surinder Kumar Mehta**, (Indian Patent No. 371059, Date of Grant02/07/2021).

3. **"New approach to separate Iron and Cobalt from the salt and solid mixture",** Menaka Jha, **Surinder Kumar Mehta** and Supriya Rana (Indian Patent- Filed in 2024; Application No. 202411001965).

4. **"Framing of rGO Cocatalyst on Zn-MOF: A Light-Based Degradation System for Dyed Waste Water Recovery",** R. Kataria, K. Arya, A. Kumar, S. Singh, R. Kumar, **S.K. Mehta**, V. Kumar, Patent No.: 549865, Application No.: 202411010268, Date of Filing: 14/02/2024, Patentee: Panjab University, Chandigarh, Granted Sept 2024.

27. Symposia/conferences/workshop organized:

S.No.	Name of Workshops/Seminar	Date/s
1.	***Convener*** Professor R.C. Paul VIth National Annual Symposium on "Emerging Areas in Chemistry Chemistry Department Panjab University Chandigarh	Mar. 5-6, 2010
2.	***Sectional President*** CHASCON-2010 4th Chandigarh Science Congress, theme: "Energy Security and Environmental Challenges" Chemistry Department Panjab University Chandigarh	Mar. 12-13, 2010
3.	***Sectional Secretary*** 29th Annual Conference of Chemists Chemistry Department Panjab University Chandigarh	Dec. 19-21, 2010
4.	***Convener*** Professor R.C. Paul International Conference on "Emerging Trends in Chemistry" Chemistry Department PU Chandigarh	Feb. 11- 12, 2011
5.	***Sectional President*** CHASCON-2011 5th Chandigarh Science Congress, theme: "Building gateways to sustainable Green communities" Panjab University, Chandigarh	Feb. 26- 28, 2011
6.	***Convener*** International conference on innovations in chemistry for sustainable development (ICSD- 2011), organized by the Department of Chemistry, Panjab University, Chandigarh	Dec. 01- 03, 2011
7.	***Convener*** Prof. Ram Chand Paul National symposium on frontiers in chemical sciences, organized by the Department of Chemistry, Panjab University, Chandigarh	Feb. 14-15, 2012
8.	***Convener*** Asian Network for Natural & Unnatural Materials (ANNUM 3), organized by the Department of Chemistry, Panjab University, Chandigarh	Feb. 24-25, 2012
9.	***Sectional President*** 6 th Chandigarh Science congress "SynergyTogether Towards tomorrow" Panjab University, Chandigarh	Feb. 26- 28, 2012
10.	***Convener*** National Symposium on Recent Advances in Chemical Sciences Department of Chemistry, PU Chandigarh	Sept. 20, 2012
11.	***Convener*** Professor R.C. Paul National Symposium on "New Developments in Chemical Sciences" Department of Chemistry, Panjab University, Chandigarh	Feb. 23- 24, 2013
12.	***Sectional Secretary*** 7 th Chandigarh Science Congress Department of Chemistry, Panjab University	Mar. 02, 2013
13.	***Chairman*** National Workshop on XRD, Dynamic Light Scattering, Scanning and Transmission Electron microscopies	Mar. 15-21, 2016
14.	***Course Coodinator and Local Coordinator GIAN*** FIRST international workshop course under GIAN-MHRD scheme on "Amphiphilic Molecules and Self-Assembly: Principles and Applications	Mar. 22-28, 2016

15.	***Chairman*** National Workshop on UV-vis, FTIR, XRD, FE-SEM and TEM Techniques	April 25-30, 2016
16.	***Local Coordinator GIAN*** Gian-Heterogeneous Catalysis and Applications	Aug. 01-05,2016
17.	***Chairman*** National Workshop on Applications of NMR and LCMS for Structural Elucidation of Small Molecules	Aug. 22-27,2016
18.	***Scientific Advisor*** International Conference, NanoSciTech 2016 on "Improving Quality of Life using Nanotechnology: Potential Role of Polymers"	Sept. 18-20, 2016.
19.	***Local Coordinator GIAN*** (GiAN)-Novel and nanostructured drug delivery for diverse biomedical Applications	Oct. 24-28,2016
20.	***Local Coordinator GIAN*** Gian- Process Safety and risk Engineering	Nov. 14-19, 2016
21.	***Local Coordinator GIAN*** Gian- Discovery of Drugs Targeting G Protein-Coupled Receptors	Nov. 21-26,2016
22.	***Local Coordinator GIAN*** Gian- Advanced Lithium Batteries: science & technology	Dec. 12-17, 2016
23.	Seminar on Small angle X-ray scattering (SAXS)	Jan. 19, 2017
24.	Seminar on "Principles and applications of macromolecular crystallography"	Feb. 8, 2017
25.	***(Indo-UK Scoping Workshop)*** Development of Rural Bio refineries in India: A Scoping Exercise	Feb. 22, 2017
26.	Symposium cum Workshop-TheIntegration of Biological Methods in the Nano Field of Chemistry	Mar. 3-4, 2017
27.	Advances in Mechanical Surface characterization Workshop	Mar. 7, 2017
28.	Workshop on Confocal Microscope	May 10-12, 2017
29.	***Local Coordinator GIAN*** GIAN-X-ray Absorption Spectroscopy: Materials Inside-Analysis Tool	Oct. 3-8, 2017
30.	***Local Coordinator GIAN*** GIAN-Neuropharmacology of Addiction	Oct. 9-13, 2017
31.	***Local Coordinator GIAN*** Gian-Chemical Biology and Drug Discovery	Oct. 24-30, 2017
32.	National Workshop on Small Angle X-ray Scattering (NSAXS-2017)	Nov. 6-8, 2017
33.	***Local Coordinator GIAN*** Gian-Population Health Promotion: An International Perspective	Dec.18-24, 2017
34.	One –day Seminar on Electrochemical Workstation	Mar. 3, 2018
35.	National Conference on Futuristic Aspects in Chemical Science and Technology	April. 28-29, 2018
36.	**Chair** International Conference on "Translational Science in Life Sciences"	July 5-7, 2018
37.	**Coordinator** Indo-US Workshop on safeguarding dual-use chemicals and the application of vulnerability assessment tools and risk-based security enhancements	July 16-17, 2018
38.	DST Interaction meeting	August 3, 2018
39.	**Local Coordinator GIAN** Gian- Genome Informatics	Oct. 03-08, 2018

40.	**Covener** Workshop on Critical Reading and Effective Writing - Tools for Research	Nov. 12-13, 2018
41.	**Chairman** National workshop on Single Crystal Structure Determination of Small Molecules	Nov. 20-21, 2018
42.	***Local Coordinator GIAN*** Gian-Primary Immunodeficiency Diseases: From Bench to Bedside	Feb. 18-22, 2019
43.	***Local Coordinator GIAN*** Gian-Fashion and Textile Design: Intensive pattern cutting investigation & Fashion Illustration for Design with Colour Interference.	Feb. 27-March 1, 2019
44.	***Chairman*** Conference on "Strategies and Challenges in Computational Chemistry: from Molecular Simulation to Quantum Crystallography	March 5-6, 2019
45.	***Coordinator*** Indo-UK Workshop on Waste Water Treatment, Approaches and Management	July 3-5,2019
46.	***Local Coordinator GIAN*** Chemistry and Biology of Complex Glycans	Sept. 19-23, 2019
47.	***Local GIAN Coordinator*** Communicating Scientific Research: Presentations, Papers, Posters, and Proposals	Nov.11-15, 2019
48.	***Chairman*** National Workshop on Catalysis for Clean Energy and Safe Environment (CCESE-19)	Nov. 16, 2019
49.	***Local Coordinator GIAN*** Issues in Diversity and Difference for Inclusive Education	Dec. 2-7, 2019

List of Memorandum of understanding (MOUs) as Vice Chancellor, University of Ladakh

S. No.	LIST OF MOU'S SIGNED as Vice Chancellor, UNIVERSITY OF LADAKH	DATE
1.	***G.B. Pant National Institute of Himalayan Environment (NIHE)***	13-07-2021
2.	***University of Delhi***	05-08-2021
3.	***Indira Gandhi National Tribal University (IGNTU), Amarkantak***	17-08-2021
4.	***Munshi Aziz Bhat Museum of Central Asian & Kargil Trade Artefacts***	03-09-2021
5.	***Mahabodhi International Meditation Centre (MIMC), Leh***	10-10-2021
6.	***Danish Consortium for Academic Craftsmanship (DCAC)***	23-10-2021
7.	***Indian Institute of Technology Jammu, (IIT) India***	24-10-2021
8.	***Gujarat University, Ahmadabad***	29-11-2021
9.	***National Forensic Science University, Gandhinagar***	30-11-2021
10.	***Foundation for Non-Violent Alternatives (FNVA), New Delhi***	01-01-2022
11.	***Wadia Institute of Himalayan Geology, Dehradun***	03-03-2022
12.	***Maharaja Agrasen University Baddi, Himachal Pradesh, India***	21-03-2022
13.	***University of Kashmir***	09-04-2022
14.	***Snow Leopard Conservancy- India Trust and Kalpavriksh-Environmental Action Group***	26-04-2022
15.	***Taru school, Taru Village Leh***	27-04-2022

16.	***Rayat Bahra University, School Tourism Airlines and Hotel Management, Mohali Punjab, India***	30-04-2022
17.	***Sardar Patel University, Mandi, HP***	20.5.2022
18.	***Goa- Centre of Excellence Intellectual Property(G-CEIP)***	05.07.2022
19.	***DIHAR-DRDO***	06-07-2022
20.	***Film and Television Institute of India (FTII), PUNE***	28-07-2022
21.	***Omdena, Palo Alto global company***	08-08-2022
22.	***Institute of Nano Science and Technology, Mohali***	09-08-2022
23.	***SAC, Indian Space Research Organization (ISRO), Ahmadabad***	13-09-2022
24.	***Dr. B.R. Ambedkhar University of Delhi***	22-09-2022
25.	***Czech Academy of the science, Prague, Czech Republic***	24-10-2022
26.	***South Asia Institute (SAI) Heidelberg, Germany***	24-10-2022
27.	***Kirloshar Institute of Management, Harihar and Pune***	08-11-2022
28.	***Indian Institute of Management Jammu (IIM)***	18-12-2022
29.	***XIV Corps or Fire and Fury Indian Army***	03-01-2023
30.	***Rishihood University, Sonepat, Haryana***	23-01-2023
31.	***International Advanced Research Centre, Hyderabad (ARCI)***	06-02-2023
32.	***CSIR- Indian Institute of Chemical Technology, Hyderabad***	07-02-2023
33.	***Divyasampak IHUB Roorkee for Device Materials and Technology under National Mission on Interdisciplinary Cyber Physical System- NMICPS***	20-05-2023
34.	***Strategic Education Professionals Private Limited (Think Ahead ACCA)***	04-06-2023
35.	***CSIR- National Geophysical Research Institute (CSIR-NGRI), Hyderabad***	17-06-2023
36.	***Guru Jambheshwar University of Science & Technology, Hisar, Haryana***	23-06-2023
37.	***The Grassroots Institute Canada***	27-06-2023
38.	***NIELIT Leh***	16-08-2023
39.	***Factorize Faridabad Haryana***	18-08-2023
40.	***National Remote Sensing Centre, Bangalore***	30-08-2023
41.	***World Wildlife Fund (WWF)***	
42.	***Wageningen University & Research Netherland***	02-11-2023
43.	***Ladakh Mountaineering and Adventure Club, Leh***	14-12-2023
44.	***Sri Sri Rural Development Programme (SSRDP) Trust Bengaluru***	19-12-2023
45.	***Ladakh Buddhist Association (LBA)***	01-01-2024
46.	***USI-Centre for Military History and Conflict Studies***	13-01-2024
47.	***Hydrocarbon Sector Skill Council***	2024
48.	***Economic Growth and Development Dialogue***	
49.	***The Trustees of Columbia University Department of East Asian Languages and Cultures***	2024
50.	***Guru Gobind Singh Indraprastha University Delhi***	2024

List of initiatives/projects sanctioned to the University of Ladakh

1. **Mountain Research Institute**
2. **Climate Change Cell by DST**
3. **Technology Enabling Center by DST**
4. **Purse Grant by DST**
5. **Meity Grant**
6. **NSS Unit**
7. **ACIC, NITI Aayog**
8. **LAMA project SAC ISRO**