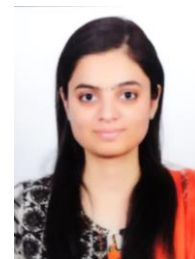


Curriculum Vitae



Name: Ms. Komal Soni

Assistant Professor

Department of Chemistry

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Academic Qualification

Degree	Institution	Year	Remark	
Ph. D. (Chemistry)	Department of Chemistry, University of Rajasthan, Jaipur (Rajasthan)	May, 2018 to Current	CSIR- JRF and SRF	
TITLE of thesis: “ Generation and Spectroscopic Characterization of Some Organic Derivatives of Organogermanium(IV), Organotin(IV), Titanium(IV) and Zirconium(IV) ” under the supervision Prof. Asha Jain, Department of Chemistry, University of Rajasthan, Jaipur, Rajasthan.				
Degree	Institution	Year	Division	Percentage
M. Sc. (Chemistry) with specialization in Organic Chemistry	University of Rajasthan, Jaipur (Rajasthan)	2015-2017	I	5.70/6.00 (85.00%)
B. Sc. (Chemistry, Zoology and Botany)	University Maharani College, University of Rajasthan, Jaipur (Rajasthan)	2012-2015	I	1131/1350 (83.77%)
XII	CBSE	2012	I	456/500 (91.20%)
X	CBSE	2010	I	09/10 (85.50%)

Research interest Area :

Synthetic Inorganic Chemistry, Applied Organometallic Chemistry and Bioinorganic Chemistry

Refresher/Orientation Course :

S.No.	Course	Place	Sponsoring Agency	Duration
1.	RUSA 10 th Faculty Induction Programme	Online	Human Resource Development Centre, University of Rajasthan, Jaipur	1 month

Achievements/Awards :

S.No.	Year	Name of Conference	Paper Title	Poster /Oral	Award
1	2022	National Symposium on “Chemistry for Sustainable Future” organized by Department of Chemistry, University of Rajasthan, Jaipur on 16 February, 2022. (dedicated to Prof. R.C. Mehrotra).	Paper presented on topic “DFT assisted optimized structure, optimized energy and stability of some organotin(IV) complexes derived from two different chelating ligands”	Poster	Best paper Award
2	2021	International Conference on Smart Innovations for Society (ICSIS-2021) 20th-21 st August, 2021 Poornima Institute of Engineering and Technology, Jaipur	Organic Modifiers- Chemically Modified dimethyltin dichloride organic-inorganic hybrid product: Design and antimicrobial activity	Oral	Best paper Presentation
3	2020	National Conference on Novel Advancement in Applied Chemical Science (NACS 2020) 27 th -28 th January, 2020, S. S. Jain Subodh P.G. (Autonomous College), Jaipur, 302004	Generation and spectroscopic characterization of some organic derivatives of organotin(IV) and their antimicrobial activity	Oral	Best oral presentation (III technical session)
4	2019	National Seminar on Role of Science and Technology Rural Development 11 th -12 th November, 2019, University of Rajasthan, Jaipur	Synthesis and spectroscopic characterization of some antifungal agents of organotin(IV)	Poster	III position
	Year	Award Name	Remark		Class
5	2017	Prof. B. C. Joshi Gold Medal Award	For securing highest marks in Organic Chemistry Electives in Department of Chemistry, University of Rajasthan, Jaipur		M.Sc.
6	2015	III in poster presentation on the theme “Chemistry in Society, Environment and Everyday Life”	Department of Chemistry, University of Rajasthan, Jaipur		M.Sc. I semester
7	2013	II position in Class	B.Sc. Biology University Maharani College		B.Sc. Part-I
8	2013	I position in Intercollegiate Science Quiz Competition	University Maharani College Chemistry Olympiad		B.Sc. Part III

Research Publications :

S.No.	Title of Paper	Name of Authors	Name of Journal with Impact factor &ISSN No.	Volume and No. with Year
1.	Recent Advances in DFT Assisted Optimized Energy, Stability and Distortions of Optimized Topologies of Certain Biopotent Dimethyltin(IV) Complexes	K Soni , S Saxena, A Jain	<i>Elsevier - Journal of the Indian Chemical Society</i> Online ISSN: 2667-2847 Linking ISSN: 0019-4522 Impact factor- 0.2	99 (2022) 100332
2.	Deciphering Mechanistic Implications of Antimicrobial and Antioxidant Potentials of Certain new Dibutyltin(IV) Formulations as Possible Therapeutic Options Based on DFT and Hybrid Materials Paradigm	K Soni , S Saxena, A Jain	<i>Wiley- Journal of Biochemical and Molecular Toxicology</i> Online ISSN:1099-0461 Impact factor- 3.6	37 (2022) e23276
3.	Biopotential Insights and Structural Chemistry of Some Zirconocene Incorporated Relatively Sterically Demanding Heterocyclic β -Diketones and Sterically Undemanding Flexible N-protected α / β -Amino Acids	SHARMA, KANIKA SONI, KOMAL SAXENA, SANJIV JAIN, ASHA	<i>NISCP- CSIR - INDIAN JOURNAL OF CHEMISTRY</i> ISSN: 2583-1321 (ONLINE); 0019-5103 (PRINT) IMPACT FACTOR- 0.412	62(2023) 331-338
4.	De Novo Unified Robust Antidiabetic Pharmacophores based on Biopotent Hybrid Material: DFT assisted Design, Optimized Molecular Structure and Understanding Mechanism of Antidiabetic Bioassay	ANITA KUMAWAT, KOMAL SONI , SANJIV SAXENA, ASHA JAIN	<i>WILEY- Applied Organometallic Chemistry.</i> ONLINE ISSN:1099-0739 IMPACT FACTOR- 3.9	37 (2023) e7205

Book Chapter :

Soni, K., Saxena, S., Jain, A. (2023).

Chapter 55, Organic Modifiers—Chemically Modified Dimethyltin dichloride Organic–Inorganic Hybrid Product: Design and Antimicrobial Activity. In: Goyal, D., Kumar, A., Piuri, V., Paprzycki, M. (eds) Proceedings of the Third International Conference on Information Management and Machine Intelligence. **Algorithms for Intelligent Systems**. Springer, Singapore. https://doi.org/10.1007/978-981-19-2065-3_55

Conferences/ Seminars :

S.No.	Name of Conference	Title of Paper	Date
International Conferences/ Seminars/ Symposium			
1.	International Conference on “Frontiers at the Chemistry- Allied Sciences Interface” (FCASI 2023) organized by Department of Chemistry, University of Rajasthan, Jaipur	Paper presented on topic “Substituted Aminophenol N,O-orthometallated and Heterocyclic β -diketone chelated Hexacoordinated Dibutyltin(IV) Complexes, Design, Generation and Spectroscopic Characterization”	April 20-21, 2023
2.	International Conference on “Green Energy and Sustainable Practices” (GESEP-2023) organised by Centre of Advanced Study, Department of Chemistry, University of Rajasthan, Jaipur	Paper presented on topic “DFT Assisted Rationally Designed Hexacoordinated Dimethyltin(IV) Complex: Optimized Molecular Structure of $C_{38}H_{36}N_4O_4Sn$, Optimized Energy and Stability”	January 30-31, 2023
3.	108 th Indian Science Congress organized by R.T.M. Nagpur University, Nagpur, Maharashtra	Facile Incorporation of Zirconium(IV) Into Aminophenol/ Substituted Aminophenols and Flexible N-phthaloyl amino acids: Synthetic Strategy, Spectroscopic Characterization, DFT Assisted optimized Molecular Structure and Mulliken Charge Distribution Analysis	January 3-7, 2023
4.	International Conference on “New Trends in Chemical Research” organised by Department of Chemistry, Shaheed Udham Singh Govt. College, Kurukshetra University, Kurukshetra, Haryana, India	Attended via online mode	April 29-30, 2022.
5.	Third International Conference on Smart Innovations for Society “ICSIS 2021” organized by Poornima Institute of Engineering & Technology, Jaipur, Rajasthan	Paper presented on topic “Organic Modifiers-Chemically Modified Dimethyltindichloride Organic-Inorganic Hybrid Product: Design and Antimicrobial activity”. Online mode (Best paper Award)	20-21 August, 2021
6.	International Virtual Conference on Frontiers in Chemical Sciences (IVCFCS-2021) organized by Department of Chemistry, MLSU, Udaipur, Rajasthan	Paper presented on topic “Synthesis, Spectroscopic Characterization and computational studies of an organic derivative of zirconium(IV)”.	25 June, 2021

7.	International Conference on Recent development in Chemical Research (RDCR-2019) organized by Department of Chemistry, IIS (deemed to be University), Jaipur	Paper presented on topic “Amino Acid Derivatives and Potential Organic Ligand – Modified R_2SnCl_2 : Preparation and Spectroscopic Characterization”.	1-2 February, 2019
8.	International Conference on Frontiers at the Chemistry- Allied Sciences Interface (FCASI 2018) organized by Department of Chemistry, University of Rajasthan, Jaipur	Paper presented on topic “Facile incorporation of $Bu_2Sn(IV)$ into two potential organic ligands : Synthetic strategy and structural considerations”.	21-22 December, 2018

National Conferences/ Seminars/ Symposium

S.No.	Name of Conference	Organise / Title of Paper	Date
1.	National Symposium on “Chemistry for Sustainable Future” organized by Department of Chemistry, University of Rajasthan, Jaipur (dedicated to Prof. R.C. Mehrotra).	Paper presented on topic “DFT assisted optimized structure, optimized energy and stability of some organotin(IV) complexes derived from two different chelating ligands”. (Best paper Award)	16 February, 2022
2.	Webinar on Computational Tools & Their Applications, Wavefunction Inc., USA in collaboration with Neotel Systems & Services, Chandigarh, India	Attended via online mode	29th August, 2021.
3.	DAE Symposium on Current Trends in Theoretical Chemistry, CTTC-2020 organized by Chemistry Division, Bhabha Atomic Research Centre, Mumbai	Attended via online mode	23-25 September, 2021
4.	National Conference on Novel Advancement in Applied Chemical Science organized by S.S Jain Subodh P. G. (Autonomous) College, Jaipur	Paper presented on topic “Generation and spectroscopic characterization of some organic derivatives of organotin(IV) and their anti-microbial activity”. (Best Oral Presentation Award-III technical Session)	27-28 January, 2020
5.	National Seminar on Role of Science and Technology Rural Development organized by Indian Science Congress Association (ISCA) Jaipur Chapter	Paper presented on topic “Synthesis and spectroscopic characterization of some antifungal agents of organotin(IV)”. (III position in poster presentation)	11-12 November, 2019

Certificate courses:

1. Certificate of achievement in MCB63X: Principles of Biochemistry , a course of study offered by HarvardX , an online learning initiative of Harvard University . Certificate issued on May 13,2020
2. Certificate of completion of Module on “Plagiarism” of Researcher Academy, Elsevier on 26 May, 2020
3. Certificate of completion of Module on “A guide to journal citation metrics” of Researcher Academy, Elsevier on 26 May, 2020
4. Certificate of Course Completion on “Focus on Peer Review, A Nature Masterclasses online course of Springer Nature on 1 June, 2020
5. Course Certificate on “Drug Development” , an online non-credit course authorized by University of California, San Diego and offered through Coursera
6. Certificate of achievement in 0.503x: Becoming a More Equitable Educator: Mindsets and Practices , a course of study offered by MITx , an online learning initiative of Massachusetts Institute of Technology . Certificate issued on 2 July,2020
7. DELTA A1 French Language (2019) from French Embassy securing 80% marks
8. Add on Certificate course in Biotechnology (2014) in University Maharani’s College, University of Rajasthan, Jaipur securing 85% marks.
9. Diploma Course in Web Designing (2013) from Indian Institute of Computer Science securing 73% marks