

	Name		<b>Lalita S Kumar</b>
	Designation		<b>Professor</b>
	Contact Address		<b>School of Sciences, Indira Gandhi National Open University, Maidan Garhi, New Delhi-110068</b>
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#### EDUCATIONAL QUALIFICATIONS

Degree	Year	Institute/University
B. Sc.	1980	Maitreyi College, Univ. of Delhi
B. Ed.	1981	Meerut University
M.Sc. (Chemistry)	1983	Univ. of Roorkee (Now IIT Roorkee)
Ph.D. (Chemistry)	1987	Dept. of Chemistry, University of Delhi
MA in Distance Education (MADE)	2000	IGNOU, New Delhi

#### CAREER PROFILE

##### Teaching Experiences: Above 33 Years

Designation (Adhoc/Temp./Perm.)	Scale of Pay Rs/-	Period From To	Service	Name of the Institution
Lecturer (Perm.)	2200-4000	18.01.89 to 16.01.94		School of Sciences, IGNOU
Lecturer in Senior Scale (Perm.)	3000-5000	17.01.94 to 26.7.98		School of Sciences, IGNOU
Lecturer in Selection Grade (Perm.)	12000-18300	27.7.98 to 06.10.03		School of Sciences, IGNOU

Reader (Permanent)	15600-39100	06.10.03 to 31.12.05	School of Sciences, IGNOU
Associate Professor	37400-67000 + 9000	01.01.06 to 5.10.19	School of Sciences, IGNOU
Professor	37400-67000, AGP-10000/-	6.10.2011 till date	School of Sciences, IGNOU

#### AREA OF INTEREST/SPECIALIZATION

Synthetic Organic Chemistry, Chemistry Education, Green Chemistry, Environmental Chemistry, Analytical Chemistry, Nanochemistry

#### ROLE AND RESPONSIBILITIES AT IGNOU

- Design, Development and Coordination work of programmes at Certificate, Post Graduate Diploma, Post Graduate and Ph. D. level
- Evaluation of Academic Programmes and Courses
- Maintenance of Programmes and Courses
- Development of Audio/Video programmes as part of Learning Materials besides the Self Learning Material in print
- Participation in the live educational programmes through EDUSAT
- Participation in the Interactive Radio Counselling through Gyan Darshan
- Course work and Research Guidance in the PhD programme

#### RESEARCH GUIDANCE

Supervision of	Year of completion	Name	Ph. D. Topic
1. Lalita S Kumar	2023	Ravikant	Design, Synthesis and Biological Studies of Some Heterocyclic Compounds
2. Lalita S Kumar	2021	Yogesh	Synthesis and Applications of Nanomaterials
3. Lalita S Kumar & Dr. Satya Vir Arya	2020	Raunaq	Sorption, Leaching and Persistence of Tebuconazole, A Fungicide In Indian Soils
4. Lalita S Kumar & Dr. Mohan Prasad	2019	Inamdar Murad	Asymmetric Synthesis of Organic Compounds by Using Organocatalysts
5. Lalita S Kumar	2017	Y. Srinivasa Rao	The Role of Polymorphism, Impurity Profile and Cocrystal Development in

& Dr .V. Anantha Lakhmi			Pharmaceutical Industry
6. Lalita S Kumar & Dr. Prakash Kumar Rao	2016	Vinayak Adimule	Synthesis, Characterisation and Biological Activity of Oxygen, Nitrogen, Sulphur Containing Novel Heterocycles
7. Lalita S Kumar	Pursuing	Mr. Jagannadha Rao. Alla	Synthesis, Biological Evaluation and Molecular Docking Studies of Novel Indazole Derivatives
8. Lalita S Kumar & Dr. D.S. Dhami	Pursuing	Ms. Brijesh Kumari	Extraction and Biological Activities of Essential Oils from Some Medicinal Plants
9. Lalita S Kumar	Pursuing	Mr. V. Mallikarjun Sarma	Nanoparticles Mediated Degradation Studies on Pesticide Residues in Agricultural Runoffs
10. Lalita S Kumar	Pursuing	Ms. Nidhi Manhas	Study Of Photophysical Properties and Applications of Novel Azobenzene Derivatives
11. Lalita S Kumar	Pursuing	Mr. P. K. Nag	Determination of Chiroptical Properties of Some Chiral Drug Molecules using Density Functional Theory
12. Lalita S Kumar & Dr. Yogesh Kumar	Pursuing	Ms. Smriti Rana	Synthesis of MOF-Based Materials and Their Applications

**Books/Monographs (Authored/Edited)/ Book Chapter/ Lecture Notes :**

<b>S. No</b>	<b>Name of Author</b>	<b>Title of chapter/book</b>	<b>Place of publication</b>	<b>Publisher</b>	<b>Year</b>	<b>Total Pages</b>	<b>ISBN No.</b>
1	<b>Manhas, N., Kumar, L. S., &amp; Adimule, V.</b>	“Early-Stage Diagnosis of Breast Cancer: Amelioration in Approaches” in Drug and Therapy Development for Triple Negative Breast Cancer	WILEY-online library	WILEY-VCH GmbH	2023	1-34	Print: 9783527351756 Online: 783527841165 <a href="https://doi.org/10.1002/9783527841165.ch1">https://doi.org/10.1002/9783527841165.ch1</a>
2	<b>Lalita S Kumar</b> and Sanjiv Kumar (Eds. Sujata Santosh and C.K. Ghosh)	Quality Assured Delivery of PGDAC Programme using Vedyadhara Open e-Learning Environment (VOLE) in the Book “Creative Sparks of Innovation”	New Delhi	MPDD, IGNOU, New Delhi	2013	87-92 (Total No. of Pages 287)	978-81-266-6603-4
3	<b>V.K. Ahluwalia, Lalita</b>	Chemistry of Natural Products:	New Delhi	Ane Books	2006	249	81-8052-089-7 (Pb)

S. Kumar and Sanjiv Kumar	Amino Acids, Peptides, Proteins and Enzymes		India			81-8052-106-0 (Hb)
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**PAPERS IN REFEREED/PEER REVIEWED JOURNALS:**

S. No.	Author/ Co-author (if any)	Title	Name of Journal	Volume	Page no. (s)	Year
1	Manhas, N., Kumar, L. S.*, & Adimule, V.	Photoluminescence and Supercapacitive Properties of Carbon Dots Nanoparticles: A Review.	<i>Journal of Metastable and Nanocrystalline Materials,</i>	37	1-22	2023
2	Manhas, N., Adimule, V.* , Lakshminarayana, P., Keri, R., Kumar, L.S.** , Bathula, C.	Utilization of Co <sup>2+</sup> Doped Eu <sub>2</sub> O <sub>3</sub> Nanostructures and their Effect on the Dielectric and Photoisomerization of Liquid Crystals	<i>Physics of Fluids</i>	35 (10).	10	2023
3	Kant, R.; Saini, K.; Upadhyay, R.; Amri, N.; Kumar, R.; S Kumar, L.	Design, Synthesis and Characterization of Novel 1H-1,2,3-Triazole Quinoline-Isatin Tethered Conjugates	<i>Asian J. Chem.</i>	35,	1269–1275.	2023
4	Saini, K.; Upadhyay, R.; Kant, R.; Vajpayee, A.; Jain, K.; Kumar, A.; S Kumar, L.; Kumar, R.	Design, Synthesis, Molecular Docking and DFT Studies on Novel Melatonin and Isatin Based Azole Derivatives.	<i>RSC Adv.</i>	13	27525–27534	2023
5	Kant, R.; Saini, K.; Upadhyay, R.; Singh, Y.; Reddy, V.; Singh, S.; Kareem, M.; Dasegowda, K.; Prabhavati, H.; Kumar,	Design, Synthesis, In-Silico Screening and Antiproliferative Activity of Novel 1,2,3 Triazole Tethered Dibenzosuberane Conjugates.	<i>Biotechnol Bioproc E</i>	28	761-773	2023

	R.; Park, J.; and S Kumar, L.					
6	<u>Rakesh Kumar, Dhiraj Kumar, Ravindra Kumar Upadhyay, Nidhi Deswal, Priya Takkar, Abdul Kareem, Vinod Kumar, Lalita S Kumar,</u>	Design, Synthesis, Antimicrobial Screening and Docking Studies of Newer 1,4-Dihydropyridine tethered Chalcone Hybrids	<i>Chemistry Select</i>	7(41)		2022
7	Rakesh Kumar, Neha Yadav, Harshita Jain, Nidhi Deswal, Ravindra Kumar Upadhyay, Ankita Leekha, Anita Kamra Verma, Abdul Kareem, Rajasekhar Chikati, and Lalita S Kumar	Microwave-Assisted Synthesis of 4-Aryl-1,4-dihydropyridines as Potent Anticancer Agent and Their In-Silico Studies	Chemistry Select	7 (19),		2022
8	<u>Yogesh Kumar, Javaid Shabir, Padmini Gupta, Lalita S. Kumar</u>	Design and Development of Amine Functionalized Mesoporous Cubic Silica Particles: A Recyclable Catalyst for Knoevenagel Condensation	Catalysis Letters	152	1506-1516	2022
9	Y. Kumar, R. Kaushik, S. Rani, S. Rafat, J. Shabir, K. Dev, L.S. Kumar	Curcumin immobilized metal organic framework based fluorescent nanoprobe for selective sensing and bioimaging of Fe (II)	Mater. Today Commun.	(28)	102563	2021

10	Reviewed	Title: "Utilization of waste derived from the silicon carbide grinding sludge and stone sludge as silicon aluminum source for the synthesis of the amine functionalized mesoporous humidity control material"	Journal of Material Cycles and Waste Management (Springer)			2021
11	Reviewed	Title: "Comparison of the two carbon allotropes as solid support: catalytic efficiency of the supported metalloporphyrins for the aerobic oxidation of alcohols"	<i>Chemistry Select</i> (Wiley)			2021
12	Yogesh Kumar, Swati Rani, Javaid Shabir, and Lalita S. Kumar	Nitrogen-Rich and Porous Graphitic Carbon Nitride Nanosheet Immobilized Palladium Nanoparticles as Highly Active and Recyclable Catalysts for the Reduction of Nitro Compounds and Degradation of Organic Dyes	<i>ACS Omega</i>	5 (22)	13250-13258	2020
13	Ismail, I. M., Prasad, M., Kumar, L. S.	Application of In Situ Generated Chiral Oxazaborolidine Catalyst for the Enantioselective Reduction of Prochiral Ketones, <a href="http://dx.doi.org/10.31638/IJPRS.V7.I4.00008">http://dx.doi.org/10.31638/IJPRS.V7.I4.00008</a>	International Journal for Pharmaceutical Research Scholars	7(4)	31-39	2018
14	Adimule Vinayak, Medapa Sudha and Kumar S. Lalit	Design, Synthesis and Characterization of Novel Amine Derivatives of 5-[5-(Chloromethyl)-1, 3, 4-Oxadiazol-2-yl]-2-(4-Fluorophenyl)-Pyridine as a New Class of Anticancer Agents"	<i>Dhaka Univ. J. Pharm. Sci.</i>	16(1)	11-19	2017
15	Raunaq, Lalita S. Kumar, SatyaVir Arya and Shashi Bala Singh	Adsorption-Desorption of Tebuconazole in Three Soils	Pesticide Research Journal	29(1)	82-87	2017
16	Srinivasa Rao Y, Sivalakshmi Devi A, Sudarshan Rao, K Nageswara Rao K, Anantha Lakshmi P V, Lalita S Kumar	Synthesis and Characterization of Process-related impurities in Azelnidipine	North Asian International research Journal	(2)	37-59	2016

17	Adimule Vinayak, Medapa Sudha, Adarsha Haramballi Jagadeesha and Kumar Sanjeev Lalita	Design, Synthesis, Characterization and Cancer Cell Growth-Inhibitory Properties of Novel Derivatives of 2-(4-Fluoro-phenyl)-5-(5-Aryl Substituted-1, 3, 4- Oxadiazol-2-yl) Pyridine	British Journal of Pharmaceutical Research	7(1)	34-43	2015
18	Srinivasa Rao Y, Chandan Kumar V, Sivalakshmi Devi A, Anantha Lakshmi P V, Lalita S Kumar	Identification, Isolation and Characterization of Process related Impurities in Irbesartan	North Asian International research Journal	(1)	92-107	2015
19	Srinivasa Rao, A. Sivalakshmi Devi, V. Chandan Kumar, K. Nageswara Rao, G. Tataji, P. V. Anantha Lakshmi, Lalita S. Kumar	Identification and characterization of Impurities in Lisinopril	International Journal of Pharmaceutical Chemistry Research	(4)	1-11	2015
20	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita. S.Kumar	Synthesis of N-{(2, 4 dichloro phenyl)-1, 3, 4-oxadiazole- 2-yl] methyl} amine derivatives as anticancer precursors	International Journal of Medicinal Chemistry and analysis/ India	4(4)	231- 235	2014
21	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita.S. Kumar	Synthesis, Characterization and Cytotoxic evaluation of Novel derivatives of 1-[2-(Aryl substituted)-5-(4'-Fluoro-3- methyl biphenyl-4-yl)-[1, 3, 4] oxadiazole-3-yl]-Ethanone	Scholar Science Journals International Journal of Pharmaceutical Chemistry /India	04(3)	88-91	2014
22	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita.S. Kumar	Design, synthesis, characterization and anticancer properties of novel derivatives of 1-[2-(aryl substituted)-5-(4-methoxy biphenyl-4-yl)-[1, 3, 4] oxadiazole-3-yl]-ethanone	AIZEON Publishers/India/ International Journal of Pharma Sciences.	4(5)	713- 717	2014

23	Vinayak Adimule, Sudha Medapa, Adarsha HJ, Prakash Kumar Rao, Lalita.S.Kumar	Synthesis, characterization & cytotoxic evaluation of novel derivatives of 1, 3, 4-oxadiazole containing 5-phenyl thiophene moiety	International Organisation of Scientific Research, India & USA/Journal of Pharmacy and Biological Sciences	9(5)	42-48	2014
24	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita.S. Kumar	Novel substituted phenoxy derivatives of 2-chloro-n-{5-[2-(4-methoxy phenyl)-pyridine-3yl]-[1, 3, 4] thiadiazole-2-yl}-acetamides: Synthesis, characterization and in vitro anticancer properties	International Journal of Pharmaceutical, Chemical and Biological Sciences	2(2)	130-137	2014
25	Vinayak Adimule, Sudha Medapa, papaya JB, Adarsha HJ, Prakash Kumar Rao, Lalita. S. Kumar	Synthesis, characterization & cytotoxic evaluation of 2-(4-fluorophenyl) substituted pyridine containing 1, 3, 4-oxadiazole moiety.	Journal of Pharma Research	3(9)	176-179	2014
26	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita. S.Kumar	Synthesis of Schiff Bases of 5-[5-(4-Fluorophenyl) Thiophen-2-yl]-1, 3, 4-Thiadiazol-2-Amine and its Anticancer Activity	Pharmanest publishers, India/ An International Journal of advances in pharmaceutical sciences	5(1)	1761-1768	2014
27	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita.S. Kumar	Synthesis, Characterization And in vitro Cytotoxic Evaluation of Novel Amide Derivatives Of 5-[2-(4-Methoxy phenyl) Pyridin-3-Yl]-1, 3, 4-Thiadiazol-2-Amine	Medical University, Bulgaria-India/World Journal of Pharmaceutical Research	3(6)	525-535	2014



28	Vinayak Adimule, Sudha Medapa, padmashreekulkarni, Adarsha HJ Prakash Kumar Rao, Lalita S Kumar	Synthesis, Characterization and Cytotoxic Evaluation of Novel Schiff Base Derivatives of 5-[2-(4-Fluorophenyl) Pyridin-3-yl]-1, 3, 4-Thiadiazol-2-Amine	American Journal of Pharma Tech Research, India	4(6)	328-337	2014
29	Vinayak Adimule,SudhaMedapa, papaya JB, Adarsha HJ, Prakash Kumar Rao, Lalita S Kumar	Synthesis and Cytotoxic evaluation of Novel 2-(4-N, N-Dimethyl) pyridine containing 1, 3, 4-oxadiazole moiety	Asian Journal of Biomedical and Pharmaceutical Sciences, Aurangabad, India	04(37)	1-5	2014
30	Vinayak Adimule,SudhaMedapa, Prakash Kumar Rao, Lalita.S. Kumar	Design, Synthesis, Characterization and Anticancer Properties of Novel 2-Chloro-N-(Aryl Substituted) Acetamide Derivatives of 5-[2-(4-Methoxyphenyl) Pyridin-3-yl]-1, 3, 4-Oxadiazole-2-Thiol	International Journal of Drug Development and Research, One Commerce Center, Delware, USA	06(4)	188-195	2014
31	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita.S. Kumar	Synthesis, Characterization and Cytotoxic Evaluation of Novel Schiff Base Derivatives of 5-[2-(4-Fluorophenyl) Pyridin-3-yl]-1, 3, 4-Thiadiazol-2-Amine	Indo American Journal of Pharmaceutical Research, India-USA	04(12)	5705-5710	2014
32	Vinayak Adimule,SudhaMedapa, Prakash Kumar Rao,Lalita.S.Kumar	Design, Synthesis, Characterization and Cytotoxic Evaluation of Novel 2-Chloro-N-(Aryl Substituted) Acetamides Derivatives of 5-[2-Phenyl Pyridin-3-yl]-1, 3, 4-Oxadiazole-2-Thiol	International Bulletin of Drug Research, India, Meerut, India	04(7)	84-93	2014
33	Vinayak Adimule,SudhaMedapa, AdarshaHJ,Prakash Kumar Rao, Lalita.S. Kumar	Synthesis, Characterization, in vitro Anticancer Properties of 1-{5- Aryl-2-[5-(4-Fluoro-Phenyl)-Thiophen-2-yl]-[1, 3, 4] Oxadiazol-3-yl}-Ethanone	International Journal of Pharma Research and Review, India	03(12)	20-25	2014

34	Vinayak Adimule, Sudha Medapa, Adarsha HJ, Padmashree Kulkarni, Prakash Kumar Rao, Lalita S. Kumar	Synthesis, characterization of some novel 1, 3, 4-oxadiazole compounds containing 8-hydroxy quinolone moiety as potential antibacterial and anticancer agents	Scholar Science Journals, India/International Journal of Pharmacological Research	04(4)	180-185	2014
35	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S. Kumar	Synthesis, Characterization and Cytotoxic evaluation of Novel derivatives of 1-[2-(Aryl substituted)-5-(4'-Fluoro-3-methyl biphenyl-4-yl)-[1, 3, 4] oxadiazole-3-yl]-ethanone	International Journal of Pharmaceutical Chemistry	4, No. 3		2014
36	Vinayak Adimule, Sudha Medapa, Lalita S Kumar	Design, Synthesis and Cytotoxic Evaluation of Novel Amide Derivatives of 5-[2-(4-Fluorophenyl) Pyridin-3-yl]-1, 3, 4-Thiadiazol-2-Amine	Universiti Sains Malaysia /Malesian Journal of Pharmaceutical Sciences	5(5)	1761 - 1768	2014
37	Vinayak Adimule, Sudha Medapa, Lalita S Kumar	Synthesis, Cytotoxic evaluation of Novel Methyl Amine Derivatives of 2-(4-Fluorophenyl) substituted Pyridine Containing 1, 3, 4-Oxadiazole Moiety	Wiley online library, USA/ Journal of heterocyclic Chemistry	9(5)	42-48	2014
38	Lalita S Kumar and Sanjiv Kumar	Quality Assured Delivery of Post Graduate Diploma in Analytical Chemistry using Vedyadhara Open e-Learning Environment (VOLE), Article	Creative Sparks of Innovation, NCIDE, IGNOU		87	2013
39	Vinayak Adimule, Sudha Medapa, Prakash Kumar Rao, Lalita S. Kumar	Synthesis, characterization and anticancer activity of Schiff base derivatives of 5-(2-phenoxy pyridine-3-yl)-1, 3, 4-thiadiazole-2-amine.	International Research Journal of Pharmacy		62-66	2013
40	Lalita S Kumar, Biplab Jamatia, A. K. Aggarwal, S. Kannan	Mobile Device Intervention for Student Support Services in Distance Education Context – FRAME Model Perspective, 2011, EURODL	European Journal of Open, Distance and E-Learning			2011
41	Lalita S. Kumar and Bharat Inder Fozdar	Course Evaluation: A Holistic Approach	Indian Journal of Open and Distance	18 No. 2		2009

			Learning			
42	Bharat Inder Fozdar, Lalita S Kumar and Anurag Saxena	In-service Teacher Training Programme Effectiveness: An analysis of learner opinion on the effectiveness of the Programme	Malaysian Journal of Distance Education	9, No.2	65-87	2007
43	Bharat. I. Fozdar, Lalita S Kumar	Mobile Learning and Student Retention	International Review of Research in Open and distance Learning	8 No. 2		2007
44	Bharat. I. Fozdar, Lalita S Kumar	A Study of the Factors Responsible for the Dropouts from the B.Sc. Programme of IGNOU	International Review of Research in Open and Distance Learning	7, 3		2006
45	Bharat I. Fozdar, Lalita S Kumar.	Teaching Chemistry at Indira Gandhi National Open University	Turkish Online Journal of Distance Education-TOJDE	7, 2, Article: 7		2006
46	F.J. Maria Pushparaj, S. Kannan, L. Vikram, Lalita S. Kumar and K.S. Rangappa	Alkaline hexacyanoferrate (III) oxidation of substituted 4-oxo acids: a mechanistic study	J. Phys.Org. Chem	18	1042-1049	2005
47	Sanjiv Kumar and Lalita S Kumar	SI Units for Chemists	Chemistry Education Review	14 No. 4	25-32	1999
48	V.K. Ahluwalia, Lalita Nayal, Shashi Bala and SudhaRaghav	2-Phenyl-6-cinnamoylchromans as Synthones for 2-Amino and 2-Mercapto-4, 5- substituted thiazoles	Indian J. Chem	27B	72-73	1988

49	V.K. Ahluwalia, Lalita Nayal & Shashi Bala	Synthesis of Some 2-Amino-6-aryl-4-dihydrobenzopyranyl pyrimidines as potential antifungal & antibacterial agents	Indian J. Chem.	27B		1988
50	V.K. Ahluwalia, Lalita Nayal & A.K. Tehim	New routes to the Synthesis of 8-(dihydrocinnamoyl) dihydrocoumarin derivatives	Indian J. Chem	27B	70-71	1988
51	V.K. Ahluwalia, <b>Lalita Nayal</b> , Shashi Bala and Sudha Raghav	Acid Catalysed Condensation of Isoprene with hydroxypropiophenones : Synthesis of 2,2-dimethylchromans and some new 2-amino & 2-mercapto-4-aryl-5-methylthiazoles	Indian J. Chem.	27B,	629	1988
52	V.K. Ahluwalia, Lalita Nayal, Neelu Kaila, Shashi Bala Singh and A.K. Tehim	Synthesis & Antimicrobial Activity of Substituted 3,4-Dihydro-2H-1-benzopyrans	Indian J. Chem.	26B	384	1987

**CONFERENCES/SEMINARS/WORKSHOPS ORGANISED/PARTICIPATED**

S. No.	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference/Workshop	City	Date and Year
1	Smriti Rana, Yogesh kumar, Rahul Kaushik, Lalita S Kumar	Amorphous Zinc Hybrid Metal-Organic Framework with Non coordinated Terpyridine for Selective Metal Capture and Dye Degradation..	Council of Scientific and Industrial Research- Indian Institute of Petroleum (CSIR-IIP) and the Indian Society of Analytical Scientists (ISAS-Delhi Chapter)	The 3 <sup>rd</sup> Indian Analytical Congress: Role of Science & Technology in Green Transitions	CSIR IIP, Dehradun	5-6th June 2024
2	Nidhi, Prasant Kumar Nag, Lalita S. Kumar	Reversible Photoisomerization in Novel Azo-Benzoates using Density Functional	Council of Scientific and Industrial Research- Indian Institute of Petroleum (CSIR-	The 3 <sup>rd</sup> Indian Analytical Congress: Role of Science & Technology in Green Transitions	CSIR IIP, Dehradun	5-6th June 2024

		Theory: Effect of Substitution and Solvent	IIP) and the Indian Society of Analytical Scientists (ISAS-Delhi Chapter)			
3	Brijesh, Devedra Dhami, Lalita S. Kumar	Assessing the Antioxidant Activity, And Anti-Inflammatory Activity Of Essential Oils In Plumeria alba Pods	Council of Scientific and Industrial Research- Indian Institute of Petroleum (CSIR-IIP) and the Indian Society of Analytical Scientists (ISAS-Delhi Chapter)	The 3 <sup>rd</sup> Indian Analytical Congress: Role of Science & Technology in Green Transitions	CSIR IIP, Dehradun	5-6th June 2024
4	V.Mallikarjuna Sarma , K. Subramanyam Lalita S Kumar	Photocatalytic Properties Of Transition Metal Doped Cus Magnetic Nanoparticles Towards Waste Water Treatment		2nd International Virtual Conference on Materials Science and Applications (ICMSA-2024)	Tamil Nadu, India	1 <sup>st</sup> -2 <sup>nd</sup> Feb 2024
5	Smriti Rana, Yogesh kumar, Rahul Kaushik, Lalita S Kumar	“Photocatalytic Degradation of Dye in Wastewater by Hybrid Zinc Metal-Organic Framework”	Department of Chemistry  Under the aegis of, IQAC,  Atma Ram Sanatan Dharma College, DU	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th January, 2024
6	Mallikarjuna Sarma,	“Photocatalytic Degradation of	Department of	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th

	Subramanyam and Lalita S Kumar	Profenofos Pesticide in Agricultural Runoffs by Pristine ZnO Nanostructures”	Chemistry Under the aegis of, IQAC, Atma Ram Sanatan Dharma College, DU			January, 2024
7	Prasanta Kumar Nag and Lalita S Kumar	“Conformation Studies Through DFT Scanning of Dihedral Angle and Estimation of Specific Rotation of Chiral Drugs”	Department of Chemistry Under the aegis of, IQAC, Atma Ram Sanatan Dharma College, DU	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th January, 2024
8	Brijesh Kumari, Lalita S Kumar, Devendra Dhami	“Chemical Composition of Essential Oils of <i>Erigeron annuus</i> Flowers: A Comparative Account”	Department of Chemistry Under the aegis of, IQAC, Atma Ram Sanatan Dharma College, DU	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th January, 2024
9	Jagannadha Rao. Alla, Santosh Kumar and Lalita S Kumar	Three Way Synthesis of Indazole Based Benzamides	Department of Chemistry Under the aegis of, IQAC, Atma Ram Sanatan	International Conference on Chemical and Biological Sciences (ICCBS)	New Delhi	27th-29th January, 2024

			Dharma College, DU			
10	Smriti Rana, Yogesh kumar, Rahul Kaushik, Lalita S Kumar	“Immobilization of terpyridine moiety with amine-functionalized ZIF-8 for enhanced dye degradation in aqueous medium”	International Conference on Smart Consumption and Sustainable Living (ICSCSL- 2023)	Miranda House, University of Delhi	New Delhi	August 24-25, 2023.
11	Nidhi Manhas, Dr. Vinayak Adimule , Dr. Parashuram L, Dr. Rangappa Keri, Dr. Lalita S Kumar , Dr. Chinna Bathula	Utilization of Co <sup>2+</sup> Doped Eu <sub>2</sub> O <sub>3</sub> Nanostructures and their Effect on the Dielectric and Photoisomerization of Liquid Crystals	Manipal Institute of Technology, Bengaluru in association with National Institute of Technology, Uttarakhand	International conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFNMN-2023)	Bengaluru	July 12-14, 2023
12	Jagannadha Rao. Alla, Santosh Kumar and Lalita S Kumar	Synthesis, Characterisation and Biological Evaluation of Some Indazole Derivatives”	International conference on Designing a sustainable future: Advances and opportunities in green chemistry (ICGC - 2023)	University of Ladakh, Green Chemistry Network Centre and Indian Society of Analytical scientists	Leh, Ladakh	3rd to 5th July, 2023.
	Prasanta Kumar Nag and Lalita Kumar	Calculation of Chiroptical Properties of Some Chiral Drug Molecules using the	International Conference on Designing a Sustainable Future:	University of Ladakh, Green Chemistry Network Centre and Indian Society of Analytical scientists	Leh, Ladakh	3 <sup>rd</sup> to 5 <sup>th</sup> July, 2023.

		Density Functional Theory	Advances and Opportunities in Green Chemistry (ICGC - 2023)			
13	Nidhi Manhas, Dr. Vinayak Adimule, Dr. Parashuram L, Dr. Rangappa Keri, Dr. Lalita S Kumar, Dr. Chinna Bathula	The Influence of Co <sup>2+</sup> : SeO <sub>2</sub> Liquid Crystal Nanostructures on Enhanced Photoluminescence and Photo isomerization Properties	Mahatma Gandhi University, Kottayam, Kerala, India	International Hybrid Conference on Nano Structured Materials and Polymers (ICNP)	Kerala, India	May 12-14, 2023.
14	Ravi Kant and Lalita S Kumar	'Synthesis of Novel Triazole Substituted Dibenzosubranes as Multidrug Resistance Modulators'	National Conference on 'Current trends and Futuristic Challenges in Chemical Sciences'	Department of Chemistry, Osmania University, Hyderabad	Telangana	29 <sup>th</sup> – 30 <sup>th</sup> July 2022.
15						
16	Lalita S Kumar (Session Chair)	Biodegradation & Bioremediation	School of Interdisciplinary and Trans-disciplinary Studies, IGNOU	International Conference: Environmental and Ecological Sustainability: Engaging the Stakeholders	IGNOU, New Delhi	4-5 October, 2018
17	Lalita S Kumar (Session Chair)	Environmental Pollution: Miscellaneous	School of Interdisciplinary and Trans-disciplinary Studies, IGNOU	International Conference: Environmental and Ecological Sustainability: Engaging the Stakeholders	IGNOU, New Delhi	4-5 October, 2018



18	Lalita S Kumar	Research Ethics	UGC-HRD Centre (Academic Staff College) G. J. University of Science & Technology	UGC sponsored Refresher course on Research Methodology	Hissar, Haryana	November, 2018
19	Lalita S Kumar	Education and Career in Chemical Sciences	School of Sciences, Indira Gandhi National Open University	DST Vigyan Jyoti Residential Prog-Breaking Stereotypes in the Field of S & T for Girl Students through Motivational Guidance	New Delhi	June, 2018
20	Lalita S Kumar and B.I. Fozdar	Researching Student Workload	STRIDE, IGNOU	Course work on Research Methodology	New Delhi	September, 2018
21	Lalita S Kumar and B.I. Fozdar	Researching Student Workload	STRIDE, IGNOU	Course work on Research Methodology	New Delhi	December, 2017
22	Lalita S Kumar and Sanjiv Kumar	Content Development: Interactive PDF	STRIDE, SOCIS and RSD, IGNOU	Refresher Programme on ICT in ODL for the teachers and Academics	New Delhi	August, 2016
23	Raunaq, Lalita S Kumar, SatyaVir Arya, Neera Singh & Shashi Bala Singh	Agrochemicals for food and environmental safety”	Sorption Desorption Behaviour of Tebuconazole In Indian Soils Of Different Agro Climatic Regions, Poster	National symposium	IARI, Delhi	2015
24	Lalita Kumar, Sanjiv Kumar, Kalyana-puram Srivathsan	Early Experiences with a Community Driven Open Education management System	7 <sup>th</sup> Pan Commonwealth Forum on Open Learning	International Conference Centre, Abuja	Nigeria	2-6 December, 2013
25	Lalita S Kumar and J A Farooqi, (Convenors)	Chemistry: Education and Research Frontiers	Raman Chair, SOS and Chemistry Discipline, SOS, IGNOU, Maidan	National Conference celebrating International Year of Chemistry 2011	New Delhi	13th-14th October, 2011

			Garhi, New Delhi, India			
26	Lalita S Kumar and Manisha, Poster presentation	National Conference on "Chemistry: Education and Research Frontiers	Raman Chair and School of Sciences, IGNOU	Convention Centre, IGNOU, Maidan Garhi, New Delhi, India,	New Delhi	13th-14th October, 2011
27	Lalita S Kumar	"Embedded Workplace Training for a Skill Development Programme: Critical Factors for Effective Implementation"	Indira Gandhi National Open University, Delhi	International Conference, 6 <sup>th</sup> Pan-Commonwealth Forum on Open Learning: Skill Development	Kochi, India	24 <sup>th</sup> -28 <sup>th</sup> November, 2010
28	Lalita S Kumar	Alternative models of course development in the changing scenario of ODL	STRIDE, IGNOU	National Workshop on Self Learning Materials Developments	New Delhi	March 22 <sup>nd</sup> to 27 <sup>th</sup> 2010
29	Lalita S Kumar as a panelist along with members	Consolidation of Learner Support Services	RSD, IGNOU	Learners' Conference	New Delhi	16 <sup>th</sup> May 2010
30	Lalita S Kumar	Alternative models of course development in the changing scenario of ODL	STRIDE, IGNOU	National Workshop on Self Learning Materials Developments	New Delhi	March 22 <sup>nd</sup> to 27 <sup>th</sup> 2010
31	Lalita S Kumar & Biplab Jamatia	International Conference on Distance Education and Open Learning	Organised by IACSIT, (DEOL 2009)	Mobile Phones as Effective Learner Support Devices: A Case Study	NTU, Singapore	9 <sup>th</sup> to 11 <sup>th</sup> October, 2009
32	Joint Coordination with NCIDE	Question bank for AEC-01 course	NCIDE, IGNOU	On Demand Examination	New Delhi	7 <sup>th</sup> to 9 <sup>th</sup> September, 2009
33	Lalita S Kumar and B I Fozdar	A study of the Factors Responsible for Dropout of B.Sc. Students of IGNOU	The International Council on Distance Education (ICDE), IGNOU	International Conference on "Open and Distance Education	New Delhi, India	19-23 November 2005

**RESEARCH PROJECTS: NIL****HONOURS/AWARDS/DISTINCTIONS**

- Awarded **Gold Medal** for **Best Research Paper for session 2007-08** in the 19<sup>th</sup> Convocation of IGNOU
- Awarded **Gold Medal** jointly for "**Innovation in Open and Distance Learning**" 22<sup>nd</sup> Convocation during held on 2<sup>nd</sup> April, 2011 at IGNOU Campus
- Best Poster in National Symposia "**Indian Agricultural Research Institute**", Delhi" in 2015

**PROFESSIONAL ASSOCIATIONS**

Member	Indian Society of Analytical Scientists and National Magnetic Resonance Society
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**OTHER ACTIVITIES AT IGNOU:**

S. No.	Chairperson/ Member of Committee	Name of the Committee	Date/ period
1	Member	Reception Committee for 13 <sup>th</sup> Prof. G. Ram Reddy Memorial	2 <sup>nd</sup> July 2008
2	Member	Guidelines for notifying use of Aadhar Identity Comprising	22 <sup>nd</sup> March, 2017
3	Member	Study/Sabbatical Leave	8 <sup>th</sup> October, 2018
4	Member	Zero Waste Campus	1 <sup>st</sup> January, 2019
5	Member	Screening /shortlisting the applications for the post of Lab. Attendant	07.01.2013
6	Member	CEDR Committee for equitable distribution, SOS	22.07.2016
7	Member	Identification of Obsolete items, SOS	Jan, 2017 to Jan, 2019
8	Expert Member	SOITS, Doctoral Research Committee	

**ANY OTHER CONTRIBUTION/INFORMATION**

**A:** Contributed as a resource person in a number of workshops organized by NCERT for developing and reviewing of textual material at upper primary, secondary and senior secondary levels; creating supplementary multimedia packages, kits etc. for secondary and senior secondary level. The details are as under.

<b>S. N.</b>	<b>Inviting Agency</b>	<b>Title</b>	<b>Date</b>
1	NCERT	Development of Laboratory Manual in Science at Upper Primary Stage	14 -18 January, 2013
2	DCETA, Chacha Nehru Bhawan, NIE Campus	Development of interactive multimedia learning objects on science concepts for classes IX and Xth: Script development	8- 10 September, 2008
3	NCERT, NIE Workshop	Preparation of Manual for Science & Mathematics Kits for Upper Primary Stage: Review and Finalisation	12-16 May, 2008
4	NCERT, NIE Workshop	Workshop on Capacity Building of HMs and teachers of RIE DMP Schools on the use of Sciences and Mathematics Kits: Manual Preparation	29- January, - 02 February, 2008
5	NCERT	Development of Multimedia CD on learning materials regarding workshop	28 January -1 Feb, 2008
6	NCERT, DESM, Seminar Hall	Development of Project Books on Environment Education for Classes VI to X, Finalisation Meeting	28-Nov, 2007
7	NCERT, DCETA	Workshop for the development of Multimedia CD on learning materials: Development of Multimedia script	8-12 October, 2007
8	NCERT	Review of the tests prepared for languages and Maths for class III and languages and Science and Social Science for Classes VII/VIII for the achievement survey	17 - 18 Sept, 2007
9	NCERT, DCETA	Workshop for the development of Multimedia CD on learning materials	29 May - 4 June, 2007
10	NCERT, DESM	Development of Textbook in Science at Upper Primary Stage (Class VIII): Review of revised draft	07 - 11 May, 2007
11	NCERT, DESM	Development of Science Textbook Class VII: Review of the first draft textbook development committee	30 March- 3 April, 2007
12	NCERT, DCETA, National Centre for Comp.	Workshop for the development of Multimedia CD on learning materials: Transformation of the script into Multimedia	26-30 March, 2007

	Education		
13	NCERT,DCETA	Development of Multimedia CD on learning Materials: Final scrutiny and vetting of script	5-9 March, 2007
14	NCERT,DCETA, Chacha Nehru Bhawan	Workshop for the development of Multimedia CD on learning materials : Designing and Developing the script	6-8 February, 2007
15	NCERT, DESM	Development of Science Textbook Class VII: First Planning Meeting of the Textbook Development Committee	15-17 January, 2007
16	NCERT,DESM	Development of Science Textbook Class VII: ( Review Workshop)	08-14 August, 2006
17	NCET, DESM	Meeting for the Development of manuscript of the Science textbook for Class VII: Revised Draft	3-7 July, 2006
18	NCET, DESM	Meeting for the Development of manuscript of the Science textbook for Class VII: First Draft	29 May-2 June, 2006
19	NCET, DESM	Development of manuscript of the Science textbook for Class VII: First Meeting of the Textbook Development Committee	15-17 April, 2006
20	NCERT, DESM	Chemistry textbook of Class XI (Hindi Version ): Review of Draft	16- 18 January, 2006
21	NCERT, DESM	Workshop for the development of the manuscript of the Science and Technology textbook of Class VI: Revised Draft	21-28 November, 2005
22	NCERT, DESM	Workshop for the development of the manuscript of the Science and Technology textbook of Class VI: First Draft discussion	14-18 October, 2005
23	NCERT, DESM	Workshop for the development of the manuscript of the Science and Technology textbook of Class VI	31 August - 2 Sept, 2005
24	NCERT, DESM	Reviewing the problems for Problem Book in Chemistry for Class XI	28 March - 1 April, 2005
25	NCERT, DESM	Development of Concept-based experiments in chemistry for Hr. Sec. Stage	20-24 December, 2004

26	NCERT, DESM	Quick Review of textbooks in Chemistry for XI & XII Stage	11-15 October, 2004
27	NCERT, DESM, NIE	Workshop on Development of Multimedia Package on Organic Chemistry for Sr. Sec. Level	23-27 August, 2004
28	NCERT, DESM	Assessment of Laboratory Requirements for Carrying out Practical in Sciences and Technology at Secondary Stage	17-18 September, 2003
29	NCERT, DESM	Workshop for Finalization of Tools for Evaluation of NCERT Textbooks for Higher Secondary Stage	18-20 June, 2003
30	IGNOU & UNESCO	Training in Science for teachers from SAARC countries	15.11.99
31	SCERT, New Delhi	Supplementary material for teachers at +2 level	26-27 Dec,00 & 1-3, Jan,01
32	NCERT	Dev of Textual material- secondary. Stage	11.04.02 to 18.04.02 18-22 Nov.,02
33	NCERT	Dev of Textual material- secondary stage	2002

**B:** Engaged with the development of **e-content under the NMEICT project of MHRD**. Under this activity e-content is being developed on the basis of Curriculum of UGC. The e-content consists of about half an hour of video chunked into smaller packets. The video lecture is supplemented with the transcript, self assessment questions, glossary, summary etc. The details are as under

<b>B. Sc. 1<sup>st</sup> Year</b>	<b>Paper code, CH 102</b>	<b>Organic Chemistry-I</b>
<b>UNIT 1: Mechanism of Organic Reactions</b>		
Episode -1	Basic Concepts	
Episode -2	Nucleophilicity and Types of Organic Reactions	
Episode -3	Types of Organic Reactions and intermediates	
Episode -4	Energy Considerations in Reaction Mechanism	
Episode-5	Determination of Reaction Mechanisms	
<b>Unit – VII, Paper – II: Alkyl and Aryl Halides</b>		
Episode-2	Preparation of Alkyl Halides	

Episode-3	Preparation of Alkyl Halides	
Episode-4	Reactions of Alkyl Halides – I	
Episode-5	Reactions of Alkyl Halides – II	
Episode-6	Reactions of Alkyl Halides - III	
Episode-7	Reactions of Aryl Halides	

**C: Technology Enabled Learning (TEL) related activities**

Successively contributed to the two cycles of the MOOC titled, “Organic Chemistry-1” and coordinated one cycle hosted at Study Webs of Active-Learning for Young Aspiring Minds (SWAYAM)-an indigenous IT platform of INDIA, developed by Ministry of Human Resource Development, Government of India. Details are as under.

- **Cycle 1:** 24.10.16 to 19.12.16
- **Cycle 2:** 16.10.17 to 10.12.17
- **Cycle 3:** 17.09.18 to 31.12.18 (Run as Coordinator of the MOOC with an Enrolment of over 5000 students)