

Dr. Manish J. Solanki

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I always believe that the teaching -learning process is self initiated process where teacher can do is to motivate student for learning and so motivating the learner is prime responsibility.

So, I always communicate with students in the form of various teaching -learning processes by providing reading materials, learning sources, as mentor, as Demonstrator, as Resources and also helping them in their careers and in their overall development.

So, I want to deliver best out of my skills and efforts to make students better knowledgeable and all together want to achieve professional growth through study (continuous learning) and research.

Personal Details:

Date of Birth : 04th January, 1983
Marital Status : Married
Languages known : English, Hindi, Gujarati
Mother Tongue : Gujarati

Education:

Ph.D. in Chemistry from Department of Chemistry, Saurashtra University, Rajkot (From 01st May, 2006 to 25th May, 2009).

Title: Studies and Biological Evaluation of Synthetic Therapeutic Agents.

M.Sc. (Organo-Chemistry) with First class (64.68%) from Department of Chemistry, Saurashtra University, Rajkot (2005).

B.Sc. (Chemistry) with First class (62.14%) from Bahauddin Science College, Junagadh, Saurashtra University, Rajkot (2003).

Gujarat State Eligibility Test (GSET): Qualified two times in November 2017 and December-2018.

Other Qualification:

Pass CCC+ Course on computer Concept from Sardar Patel Institute of Public Administration (SPIPA), Ahmedabad on 31st October 2016.

Pass Hindi Examination (12th level) from Gujarat Vidhyapith, Ahmedabad in March 2020.

Professional Positions:

Current Position:

Assistant Professor Chemistry, C.U. Shah Science College, Ahmedabad from 08th August, 2014 onwards till date.

Here, I like to stay updated with the current knowledge of the various disciplines of the subject as well as the state of research and other student-related activities.

Past Positions:

Vyakhyata Sahayak Chemistry, Gujarat Arts and Science College, Ahmedabad from 02th August, 2013 to 25th April, 2014.

Assistant Professor Chemistry, Nirma University, Ahmedabad from 01st July, 2009 to 31st May 2013.

R&D Chemist with Pharmaceutical and Intermediate (PI) Division, Atul Ltd., Valsad from 01st June, 2005 to 19th April, 2006.

Research Experience:

- **Literature Survey:** Literature survey of Journal articles and Patents using Scifinder, STN, Reaxys and other databases. Synthesis: Design and synthesis of diverse heterocycles viz. Dihydropyridines, pyrimidines phenothiazines, dihydropyrimidines, pyrazolopyrimidines, quinazolines etc...
- **Reactions handled:** Hantzsch synthesis, Michael addition, Mannich reaction, Biginelli reaction, Gewald Reaction, Knoevenagel reaction, Vilsmeier-Haack reaction, nitration, diazotization, reduction, oxidation, hydrolysis, thermal condensation and microwave assisted reactions etc.
- **Isolation & Purification:** Isolation and purification of synthesized compounds by using various (crystallization and chromatographic) techniques.
- **Characterization:** Structure elucidation of compounds using IR, Mass, ¹H & ¹³C NMR spectroscopy.

Teaching Experience:

- Applied Chemistry eg. Polymer, Water and its analysis, Electrochemistry and Corrosion, Paints and Lubricants etc..... at Nirma University.
- Topics of Chemistry at B.Sc. Level eg. Saturated and Unsaturated Hydrocarbons (Alkanes, Alkenes and Alkynes), Solution and its Colligative Properties, Ionic Equilibrium, Nuclear Chemistry, Polymer, Colloids, Carbohydrates, Electrophilic aromatic substitution reaction, Chemical Reactivity and Molecular Structure: (Acid-Base Properties) Potentiometry and Polarography etc...
- Topics of Chemistry at M.Sc. Level Solid state of Chemistry, Chemical Kinetics etc..
- At Practical: Qualitative analysis of Organic compound, Separation and identification of Binary Organic Mixture, Qualitative analysis of inorganic compound, Organic Preparations One step at U.G. Level and multi-steps at P.G. Level, Chromatography (TLC), Water analysis, Different type of titration (Acid base, Redox, Complexometric) etc....

Training/Orientation program/ Faculty Development Program/ Refresher Courses

Sr. No.	Name of Training	Organization where training was received	Year	Duration
(1)	Induction Training for Faculty	IDS, Nirma University, Ahmedabad	Jan-2010	One week
(2)	RUSA Sponsored FDP on MOOCs, E-content Development and Open Education Resources	Organized by HRDC, Gujarat University, Ahmedabd.	20/08/2018 to 26/08/2018	One week
(3)	97 th Orientation Program	Conducted by HRDC, Gujarat University, Ahmedabd.	06/01/2020 to 26/01/2020	21 Days (A+ Grade)
(4)	Online Refresher course in Chemistry for Higher Education	SWAYM ARPIT ONLINE COURSE CERTIFICATION –by proctored examination held on 16/02/2020	September 2019- to Feb 2020	15 Weeks (A Grade)
(5)	Online General Faculty Development program	Organized by Knowledge Consortium Of Gujarat as per UGC norms	30/03/2021 to 09/04/2021	11 Days
(6)	Online Faculty Development program on Ayurveda	Organized by Knowledge Consortium Of Gujarat as per UGC norms	31/05/2021 to 10/06/2021	11 days
(7)	Mini Course on “COVID-19, DRM& Future “	Organized by GIDM, Gujarat	02/06/2021 to 10/06/2021	7 Days
(8)	7-Days Faculty Development Programme on Exploring Dynamics of the Classroom-NEP and NAAC Perspective.	Organized by Internal Quality Assurance Cell (IQAC) of St. Pauls College, Bengaluru.	20/01/2022 to 28/01/2022	7 Days
(8)	Two Week Refresher Course on “Current and Future Prospects of Drug Discovery and Delivery Approaches”	Organized by HRDC, Jawaharlal Nehru Technological University Hyderabad, Telangana State, India	21/02/2022 to 07/03/2022	15 Days (A+ Grade)

Services to mother institute and other institute/ Universities:

- As Examiner, Paper setter and Evaluator for B.Sc and M.Sc. examination at Indian Institute of teachers education (IITE) Gandhinagar, Gujarat.
 - As Examiner, Observer and Evaluator for Bachelor and Master level examination at Gujarat University, Ahmedabad, Gujarat.
 - As Examiner and Evaluator of B.Sc examination at Gujarat Vidhyapith, Sadara, Gujarat.
 - As Examiner, Paper setter and Evaluator for B.Sc and M.Sc. examination at Kadi Sarvvidhyalaya university, Gandhinagar, Gujarat.
 - Served as paper setter of GPSC exam for directorate of Forensic science Recruitment Board for various Class III exam.
 - As a Care taker Officer and Co-Ordinator of NCC (1-Gujarat Armd NCC), Ahmedabad since June 2019.
 - As Coordinator of website Updating and Online teaching system at College level.
 - As a Member of IQAC Committee, Discipline Committee, Sports Activity at College level.
 - As evaluator of projects in Science Fair of Secondary and Higher Secondary class students of GSEB of Ahmedabad region.
 - As a Coordinator for Innovation Club at college level.
 - As Visiting lecture of M.Sc. Chemistry at Gujarat Arts and Science College, Ahmedabad , Gujarat University since 2020 year.
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Memberships and Associations:

- Lifetime membership of Indian Society for Technical Education (ISTE), (Membership no. LM80053).
- Member of editorial board of International Journal of Modern Organic Chemistry – Modern Scientific Press FLORIDA, USA since January 2013.
- Member of Editorial Board and reviewer of Universal Journal of Chemistry, Horizon Research Publishing, USA since June 2013.

Publications/ Research/Books/Presentation/Participation:

Research Papers:

- Thirteen (14) Research Papers Published in national and international journals of repute: For Details, please refer Annexure I

Books:

- Six books and one text-book co-authored. For Details, please refer Annexure II

Paper Present at Conferences:

- Four (4) International level, Three (5) National level and three (3) State level conferences. For Details, please refer Annexure III.

Participated in Conferences/ Seminar/Workshop:

- Five (5) International level, Six (6) National level, Five (5) State level conferences, and 3 college level. For Details, please refer Annexure IV.
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Annexure I:
Research Papers Publication:

- (1) A new synthetic approach and biological evaluation of novel phenothiazines bearing tert-butyl group, by Amit R. Trivedi; Arif B. Siddiqui; Dipti K. Dodiya; **Manish J. Solanki**; Viresh H. Shah. **Journal of Sulfur Chemistry**. 30(6): 590-595, 2009. (Published on 28 October 2009).ISSN: Print: 1741-5993, Online :1741-6000 (**UGC Approved, Journal No. 10712 & SCOPUS Indexed**) (<https://doi.org/10.1080/17415990903173511>) **Impact Factor : 2.68**
- (2) A facile Synthesis of Some Indolylazetidiones and Substituted Indolylthiazolidinones, by V.H.Shah, P.R.Vachharajani, Bhavin Trivedi, Gaurang Dubal, **Manish Solanki**, Amit Trivedi.**Organic Chemistry an Indian Journal**, 5(3): 266-269, 2009. (September 2009). ISSN :PRINT: 0974-7516.
- (3) Synthesis of some novel 1,3, 4-Oxadiazoles and their anti-bacterial and antifungal activity,by Pranav.R.Vachharajani, **Manish J. Solanki**, Gaurang G. Dubal and Viresh H.Shah **Der Pharma Chemica, Scholar Research Library** 3(1): 280-285, 2011. ISSN : 0975-413X (**SCOPUS Indexed**)
- (4) Microwave assisted synthesis of N- substituted pyrimidines, using AlCl₃ as catalyst and their antimicrobial activities, by Chavda M. M., **Solanki M.J.**, Rajyguru C. M. Upadhyay J. M. **Der Pharma Chemica , Scholar Research Library** , 2(4): 361-368, 2010. ISSN : 0975-413X (**SCOPUS Indexed**)
URL <http://derpharmachemica.com/vol2-iss4> R.No.: 20103290021
- (5) Synthesis and Antimicrobial activity of Novel Pyrazolo [3,4-d] Pyrimidine derivatives, **International Journal of Chemical and Analytical Science** 2(2): 15-17, 2011.
- (6) Synthesis and Antimicrobial Evaluation of some newer symmetrical 1, 4-dihydropyridines, by **International Journal of Chem Tech Research**, 3 (3) 1139-1144, 2011 ISSN: 0974-4290
(https://www.researchgate.net/publication/288044662_Synthesis_and_antimicrobial_evaluation_of_some_newer_symmetrical_1_4-dihydropyridines)
- (7) Synthesis and Antimicrobial Activity of novel derivatives of Thiazolo [2,3-b]dihydropyrimidine containing 4-pyrazolyl moiety **Rasayan Journal of Chemistry** 4(3) 2011, 605-608.ISSN: 0974-1496(Print) ISSN: 0976-0083(Online) (**UGC Approved Journal No. 10001 & SCOPUS Indexed**)
- (8) Synthesis, Antimicrobial and Antifungal Activities of some novel derivatives of Thiazolo [2,3-b]dihydropyrimidine possessing 4-pyrazolyl moiety **Asian Journal of Chemistry** 24(7), 2972-2974, (2012). ISSN: 0975-427X (Online) ISSN: 0970-7077 (Print) (**UGC Approved Journal No. 8774 & SCOPUS Indexed**)
- (9) Synthesis and Characterization of 1-Carboxyphenothiazine Derivatives Bearing Nitrogen Mustard as Promising Class of Antitubercular Agents. **Letters in Drug Design & Discovery** 10 (10): 951-956,2013, <http://dx.doi.org/10.2174/15701808113109990022> ISSN:1875-628X (Online) ISSN: 1570-1808 (Print) (impact Factor 1.15) SCOPUS Indexed. (**UGC Approved Journal No. 4588 & SCOPUS Indexed**)

- (10) DNA Interaction and Antimicrobial Activity of New complexes of Fe (II), Co(II), Ni (II) and Cu(II) that incorporate Modified Acetyl & Acetoacetyl Benzopyran Ligands. **International Journal of Pharmacy & Technology** 5 (2),5555-5556, 2013. eISSN: 0975-766X
Reg.No: ALO/IBP/52110/2012.
- (11) A comparative Study of Antimicrobial and DNA cleavage Activity of Metal (II) Complexes of Coumarin Derivatives. **Jouranl Of Chemical, Biological and Physical Sciences**, 3 (4), 2482-2491, 2013. E-ISSN: 2249-1929
- (12) Studies, Synthesis and Antimicrobial Activity-of 6-Methyl-4-(3- Phenyl-Pyridine-4-YI-Methanone-1-H-Pyrazoyl)-2-Thio-N- Substituted Phenyl Pyrimide-5-Carboxamide **International Journal of Scientific Research in Chemistry (IJSRCH)**, 3 (2), 2018.
Online ISSN 2456-8457.
- (13) Chemistry and Biological evaluation of some new 1,2,3,4-tetrahydro-n-(substitutedphenyl)-6-methyl -2-oxo-4-[3-phenyl-1-(pyridine-4-carbonyl)1-H-pyrazol-4-yl] Pyrimidine-5-carboxamide, **International journal of Scientific Research in Science, Engineering and Technology**, 6 (3), 427-433, 2019.
UGC Approved: Journal no.47147
DOI : <https://doi.org/10.32628/IJSRSET>. ISSN: Print: 2395-1990, Online: 2394-4099.
- (14) Synthesis and Antifungal Activity of Pyrimidine Derivatives Containing an pyrazole Moiety, **International Journal of Scientific Research in Chemistry (IJSRCH)** Online ISSN 2456-8457 IJSRCH 6 (3). 457-462, 2019. **UGC Approved : Journal no. 64011**
ISSN: Print: 2395-6011, Online: 2395-602X
DOI : <https://doi.org/10.32628/1JSRST2183139>
[Journal URL: https://ijsrst.com/IJSRST2183139](https://ijsrst.com/IJSRST2183139)
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Annexure II:
Book Publication:

Sr. No.	Title Of Book	Publisher	Year	Remark
1.	Applied Chemistry	Devam Publishing house	2011	Useful for Engineering students of Gujarat Technological University and other Universities
2.	Synthesis and Antimicrobial Activity of 1,4-Dihydropyridines	LAMBERT Academic Publishing (Germany) (ISBN 978-3-8473-3585-6)	2012	Useful for the Master's Students and Research Scholar of Organic Chemistry
3.	Pyrimidines As Bioactive Molecules	LAMBERT Academic Publishing (Germany) (ISBN 978-3659306990)	March 2014	Useful for the Master's Students and Research Scholar of Organic Chemistry
4.	Quinoline As Bioactive Agents	Canadian Academic Publishing, Canada (ISBN 978-0992165161)	December 2013	Useful for the Master's Students and Research Scholar of Organic Chemistry
5.	Basics of Reaction Mechanism in Inorganic	Educreation publisher (ISBN 978-1545718551)	April 2018	Useful for the B.Sc. Students and Master Degree students to learn better.

Annexure III:

Paper Present at Conferences:

International Conferences

1. Presented on **“Synthesis, Characterization and Antitubercular activity of N-Substituted Phenothiazine - 1-carboxylic acid”** at **International Conference in Emerging Trends in Chemical Sciences** organized by Central University Of Gujarat Gandhinagar during 14-15 March 2013. (*Oral Presentation*)
2. Presented on **“Synthesis, Characterization and Antibacterial activity of newer tetrahydro pyrimidines derivatives”** at International Conference **“International Conference on Global trend in pure and applied Chemical Science”** organized under the auspices of Asian Journal of Chemistry, Udaipur, (Rajasthan, India) during 3rd -4th March, 2012. (*Poster Presentation*)
3. Presented on **“Synthesis and antimicrobial evaluation of 4-(5'-chloro- 3'methyl-1'-N-phenyl-pyrazol-4'-yl)-2,6-dimethyl-3,5-disubstitutedphenyl carbamoyl-1,4-dihydro- pyridines”** at International Conference **“Bridging Gaps in Discovery and Development: Chemical and Biological Sciences for Affordable Health, Wellness and Sustainability”** jointly organized by Indian Society of Chemists and Biologists, Lucknow and Department of Chemistry, Saurashtra University, Rajkot (Gujrat, India) during 4-7th February, 2011. (*Poster Presentation*)

National / State level Conferences

1. Presented on **“Reduction of amount of harmful 'Organic Tar' and additive Nicotine from inhaling Smoke of Smoking Cigarette by using of proper adsorbent”** at **XXXIII 2019** under the agency of Gujarat Science Congress organized by L.J. Institute of Applied Science on 2nd and 3rd February 2019- (*Poster Presentation- State level*) Received certificate for **Best Poster presentation.**
 2. Presented on **“Studies, Synthesis and antimicrobial activity of Pyridines”** at **Young Chemical Scientist Conclave** organized by C. U Shah science college Ahmedabad on 15th December 2018. (*Poster Presentation - State level*).
 3. Presented on **“Reduction of amount of harmful 'Organic Tar' and additive Nicotine from inhaling Smoke of Smoking Cigarette by using of proper adsorbent”** at **Young Chemical Scientist Conclave** organized by C. U Shah science college Ahmedabad on 15th December 2018. (*Poster Presentation -State level*).
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4. Presented on **“Synthesis, Characterization and antimicrobial Activity of 6-methyl - 4-(3-phenoxyphenyl)-2-thio - 5-Substituted phenyl carboxamide 1,2,3,4- tetra hydroypyrimidines from acetoacetanilide”** at **National seminar on Chemistry For Sustainable Development** organized by M. G. Science Institute, Ahmedabad on 26th Feb 2018. (*Oral Presentation*).

5. Presented on **“Synthesis, purification and characterization of newer symmetrical Dihydropyridines containing pyridine ring system as Substituted”** at **UGC sponsored National Seminar on Chemical Sciences in Present Scenario** organized by V. P. & R. P. T. P. Science College Vallabh Vidyanagar during 8-9, February 2016. (*Poster Presentation*).

6. Presented on **“Studies synthesis and anti microbial activity of 6 methyl 4- (3 - phenyl - pyridine -4-yl-Methanone-1-HPyrazolyl) - 2-Thio-N-Substituted phenyl pyrimide-5-carboxamide”** at **Advance Perspectives and Concepts in Chemical Sciences** organized by M. G. Science Institute, Ahmedabad on 26th Feb 2015 (*Oral Presentation*).

7. Presented **“Studies, Synthesis and purification of newer derivatives of pyrimidine containing phenyl pyrazolyl ring system”** at **One Day National seminar on Spectroscopy and Stereo chemistry** organized by J & J College of Science Nadiad on 19th December 2015. (*Poster Presentation*).

8. Presented on **“Simple and Mechanistic synthesis routes to Bioactive Dihydro Pyridine derivatives”** at **“National Conference on Frontiers of Research in Chemical Sciences”** organized by Department of Chemistry Govt. Madhav Science College, Ujjain, Madhypradesh held in Ujjain on 18-19 Feb. 2007 (*Oral Presentation*).

Annexure III:

Important Conferences/Seminars Attended:

1. Participated in National Webinar entitled “ **Teacher’s e-Kit: A Four Quadrant Approach for Development of OERs for Higher Education**” Organized by Guru Angad Dev Teaching Learning Centre, GTB Khalsa College, university of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education on 09th September 2021.
2. **International Conference on Global trend in pure and applied Chemical Science** organized under the auspices of Asian Journal of Chemistry, Udaipur, (Rajasthan, India) during 3rd -4th March, 2012.
3. **15th International Conference titled “Bridging Gaps in Discovery and Development: Chemical and Biological Sciences for Affordable Health, Wellness and Sustainability** Jointly organized by Indian Society of Chemists and Biologists, Lucknow and Department of Chemistry, Saurashtra University, Rajkot (Gujrat, India) during 4-7 February, 2011.
4. National conference on **Spectroscopy & Stereochemistry** organized by Department of Chemistry, Saurashtra university, Rajkot (Sponsored by UGC, New Delhi and GUCOST, Gandhinagar) -18 to 20 March 2009.
5. Two days National Workshop on **Updates in Process & Medicinal Chemistry** organized by Department of Chemistry (Fist-DST Funded & UGC-SAP Sponsored) Saurashtra university Rajkot- 3 -4 March 2009.
6. UGC (SAP) sponsored & DST-FIST Funded National workshop on “**Management and use of Chemistry Database and Patent Literature**” organized by Department of Chemistry, Saurashtra University, Rajkot, February 27-29, 2008.
7. Workshop on **e-resources like SciFinder Scholar, Discovery Gate, Scopus, Beilstein Crossfire, Thomson, Symyx, ISIS Base and ChemAxon**, Jointly organized by Department of Chemistry, Department of Computer Centre, Saurashtra university Rajkot and Gujrat Concil on Science And Technology (GUJCOST), Gandhinagar on 27 -29 Feb. 2008
8. International Symposium on “**Recent Trands in Drug Discovery**”, CDRI Lucknow (ISCB-2005) and Department of Chemistry, Rajkot, Jan. 9-10, 2005
9. 9th National Conference on “**Bioactive Heterocycles and Drug Discovery Paradigm**”, CDRI Lucknow (ISCB-2005) and Department of Chemistry, Rajkot, Jan. 8-10, 2005.
10. **Understanding Reaction Mechanism**, Saurashtra University, Rajkot, Feb. 28-29, 2004.
11. **Recent Advances in Chemical Sciences & An Approach to Green Chemistry** Saurashtra University, Rajkot, Oct. 11-13, 2006.

12. National Conference on **Frontiers of Research in Chemical Sciences** held by the Post Graduate Department of Chemistry Govt. Madhav Science College, Ujjain (M.P.)
18th -19th Feb. 2007
