

## FOR THE INSTITUTIONAL WEBSITE

### PERSONAL DETAILS

**Name** : MALAY J. BHATT  
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### PROFESSIONAL DETAILS

**Name of the post** : Assistant Professor in Physical Chemistry  
**Name of the Institute** : H.V.H.P. Institute of Post Graduate Studies and Research, Sarva Vidyalaya Campus, Nr. Railway Station, Kadi. District: Mehsana, State: Gujarat. Pin Code-382715.

### EDUCATION AND RESEARCH

**Ph.D. (2011 to 2016)** : Degree Awarded on 23<sup>rd</sup> Nov 2016.  
**(Catalysis for Medicinal Chemistry)** : Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar-364002, Gujarat (India).  
**Title of Thesis** : "CATALYTIC SYNTHESIS OF NOVEL HETEROCYCLIC COMPOUNDS AND THEIR UTILIZATION IN ANTIMICROBIAL ACTIVITY."  
**Areas of Consultancy** : Catalysis and Organic Synthesis

### TEACHING EXPERIENCE

- ❖ Currently working as, a permanent *Assistant Professor in Physical Chemistry* at HVHP Institute of Post Graduate Studies and Research, Kadi.
- ❖ Worked as visiting faculty at Sir P.P. Institute of science, and Department of chemistry M.K. Bhavnagar University Bhavnagar during July 2009-to February 2016.

### ACHIEVEMENTS AND AWARDS

- ❖ Participated in subject talent test in school level and passed with first class.
- ❖ During my graduation years I was the leader of students of the N.S.S. unit.
- ❖ Arranged and participated in two major and various minor camps during the *N.S.S. leadership*.
- ❖ Won a university price for securing highest marks in M.Sc. with Physical chemistry in April 2009.
- ❖ Won the best poster presentation prize in XXX Gujarat Science Congress organized by KSKV Kachchh University at Bhuj (Gujarat). [February 6-7, 2016]

## PAPER PUBLICATIONS

1. N C Desai, Niraj Shihory, **Malay Bhatt**, Bonny Patel, Tushar Karkar. Studies on antimicrobial evaluation of some 1-((1-(1*H*-benzo[*d*]imidazol-2-yl)ethylidene)amino)-6-((arylidene)amino)-2-oxo-4-phenyl-1,2-dihydropyridin-3,5-dicarbonitriles, *Synth. Commun.* **2015**, 45:2701-2711. [**Taylor & Francis, United Kingdom**]
2. N C Desai, Nayan Bhatt, Amit Dodiya, Tushar Karkar, Bonny Patel, **Malay Bhatt**. Synthesis, characterization and antimicrobial screening of thiazole based 1,3,4-oxadiazoles heterocycles, *Res. Chem. Intermed.* **2016**, 42:3039 -3053 [**Springer, Germany**]
3. N C Desai, M J Bhatt, Optimized synthesis of novel pyrazole based thiazole derivatives and their antimicrobial evaluation, *Int. lett. chem. phys. astron. (ILCPA)*, **2016**, 66: 109-118. [**SciPress, Switzerland**]
4. N C Desai, **M J Bhatt**, Catalytic synthesis of novel *N*-(3-chloro-2-oxo-4-phenylazetidin-1-yl)-4-(1*H*-indol-3-yl)-6-methyl-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carboxamide analogs: characterization and utilization in antimicrobial screening, *Heterocyclic Communications*, **2016**, 22: 131-136. [**Degruyter, Germany**]
5. N C Desai\*, M R Pandya, B Y Patel, **M J Bhatt** & T J Karkar; Synthesis of novel *N,N*-dimethyl-1-(5-methyl-2-arylimidazo[1,2-*a*]pyridin-3-yl)methanamines derivatives as potential antimicrobial agents. *Indian Journal of Chemistry Section B*, **2016**, 55B: 1136-1143. [**Niscair, India**]

## BOOK PUBLICATIONS

1. Tushar J Karkar, Bonny Y Patel, **Malay J Bhatt**; Heterocyclic Compounds as a Part of medicinal Chemistry. *LAP LAMBERT Academic Publishing* (ISBN: 978-3-659-55295-3). Published on Dec 15, 2017.
2. Bonny Y Patel, Tushar J Karkar, **Malay J Bhatt**; Anti HIV Agents. *LAP LAMBERT Academic Publishing* (ISBN: 978-620-2-09558-7) Published on Jan 19, 2018.
3. Bonny Y Patel, Tushar J Karkar, **Malay J Bhatt**; Importance of heterocyclic scaffolds in antimicrobial resistance. *LAP LAMBERT Academic Publishing* (ISBN: 978-613-6-98394-3). Published on Jan 22, 2018.
4. Tushar J Karkar, Bonny Y Patel, **Malay J Bhatt**; Importance of Sulfa Drugs. *LAP LAMBERT Academic Publishing* (ISBN: 978-613-5-81741-6). Published on Feb 13, 2018.

5. Tushar J Karkar, Bonny Y Patel, **Malay J Bhatt**; Retro-synthesis. *LAP LAMBERT Academic Publishing* (ISBN: 978-613-9-81588-3). Published on May 24<sup>th</sup> 2018.

#### ORAL/POSTER PRESENTED IN CONFERENCE

1. A poster entitled "Synthesis and characterization of some 2-thioxothiazolidine and quinolone derivatives as potential antimicrobial agents" has been presented in 31<sup>st</sup> annual conference of Indian council of chemist organized by Saurashtra University at Rajkot (Gujarat). [**December 26<sup>th</sup>-28<sup>th</sup>, 2012**]
2. A poster entitled "Studies on catalytic synthesis, characterization and biological evaluation of novel heterocyclic compounds" has been presented in National Conference on Green chemistry organized by Gujarat Environment Management Institute at Ahmedabad (Gujarat). [**September 23<sup>rd</sup>-24<sup>th</sup>, 2013**]
3. A poster entitled "Studies on synthesis, characterization and biological evaluation of novel heterocyclic compounds by utilizing facile catalysts" has been presented in 20<sup>th</sup> ISCB International conference (ISCBC-2014) organized by Delhi University at New Delhi. [**March 1<sup>st</sup>-4<sup>th</sup>, 2014**]
4. A poster entitled "Synthesis, characterization and biological evaluation a new class of pyrazole based thio-morpholine compounds" has been presented in Chemistry for Sustainable Development at M G Science institute, Ahmedabad (Gujarat). [**December 27<sup>th</sup>-28<sup>th</sup>, 2014**]
5. A poster entitled "A new synthetic methodology and in vitro antimicrobial evolution of pyrimidine clubbed imidazole derivatives" has been presented in 21<sup>th</sup> ISCB International conference (ISCBC-2015) organized by C.D.R.I. at Lucknow (Uttar Pradesh). [**February 25<sup>th</sup>-28<sup>th</sup>, 2015**]
6. A poster entitled "Catalytic synthesis of novel *N*-(2-chloro-3-oxo-4-phenylazetid-1-yl)-6-(1*H*-indol-3-yl) -4-methyl- 2-thioxo- 1,2-dihydropyrimidine-5-carboxamide analogous: characterization and utilization in antimicrobial screening" has been presented in 11<sup>th</sup> annual Student Chemical Engineering Congress (SCHEMCON-2015) organized by MIT Academy of Engineering at Alandi (D) Pune (Maharashtra). [**September 12<sup>th</sup>-13<sup>th</sup>, 2015**]
7. A poster entitled "Studies on synthesis, characterization and biological evaluation of novel 5-benzylidene-3- (4-nitrophenyl) -2-methyl-2- (2-oxo-2*H*-chromen-3-yl) thiazolidin -4-one compounds by utilizing facile catalysts" has been presented in International conference (NDCS-2015) organized by BITS Pilani at (Rajasthan). [**October 16<sup>th</sup>-18<sup>th</sup>, 2015**]
8. A poster entitled "Synthesis of novel pyrazole based thiazole derivatives by using facile catalyst" has been presented organized by V.P & R.P.T.P Science College (CSIPS-2016) at Vallabh Vidyanagar (Gujarat). [**January 8<sup>th</sup>-9<sup>th</sup>, 2016**]

9. A poster entitled "Optimized synthesis of novel pyrazole based thiazole derivatives and their antimicrobial evaluation" has been presented at XXX Gujarat Science Congress organized by KSKV Kachchh University at Bhuj (Gujarat). [February 6<sup>th</sup>-7<sup>th</sup>, 2016]
10. A poster entitled "Synthesis characterization and biological evaluation of some 4-methoxy-N-(2 (substituted)-4-oxothiazolidin-3-yl) benzamide derivatives as potential antimicrobial agent" has been presented at National Seminar On Structures And Chemistry of Materials organized by Department of Chemistry M.S. University Vadodara. [October 15<sup>th</sup> 2016]
11. A poster entitled "Catalytic synthesis of novel N-(3-chloro-2-oxo-4-phenylazetidin-,1-yl)-4-(1H-indol-3-yl)-6-methyl-2-thioxo-1,2,3,4-tetrahydro-pyrimidine-5-carboxamide analogous: characterization and utilization in antimicrobial screening," has been presented at XXXI Gujarat Science Congress jointly organized by Gujarat Science Academy, Gujarat Energy Research & Management Institute, Pandit Deendayal Petroleum University, Institute of Seismological Research at Gandhinagar(Gujarat). [February 4<sup>th</sup> -5<sup>th</sup>, 2017]
12. A poster entitled "Green synthesis of bioactive molecules via catalytic route" has been presented at 2<sup>nd</sup> national seminar on Globalization of education through digitalization jointly organized by Bhabha national research academy Gujarat, Council for teachers education & Shri U.P. arts, Smt M.G. Panchal Science and Shri V.L. Shah commerce college Pilvai Dist. Mehsana (Gujarat). [July 15<sup>th</sup>, 2017]
13. An oral presentation on "Catalytic synthesis and antimicrobial activity of N-(3-chloro-2-oxo-4-phenylazetidin-1-yl)-4-(1H-indol-3-yl)-6- methyl-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carboxamides" has been presented at National Conference on Recent Innovations in Science - 2018 organized by RK University Rajkot (Gujarat). [January 18<sup>th</sup>& 19<sup>th</sup>, 2018]
14. A poster entitled "Optimized synthesis of novel pyrazole based thiazole derivatives and their antimicrobial evaluation" has been presented at XXXII Gujarat Science Congress jointly organized by Gujarat Science Academy, M.K. Bhavnagar University & CSIR-C.S.M.C.R.I. Bhavnagar (Gujarat). [February 4<sup>th</sup> -5<sup>th</sup>, 2018]
15. A paper entitled "A convenient synthesis of 2-Azitinone via safer and green catalyst" has been presented at one day national seminar on Advanced Perspective And Concept In Chemical Sciences organized by Department of Chemistry M G Science institute Ahmedabad. [February 26<sup>th</sup>, 2018]

1. Participated in Entrepreneurship Awareness Camp organized by E.D.C. cell Bhavnagar University at Bhavnagar (Gujarat). [**October 18<sup>th</sup>-20<sup>th</sup>, 2007**]
2. Participated in XXII Gujarat Science Congress organized by E.D.C. cell Bhavnagar University at Bhavnagar (Gujarat). [**March 9<sup>th</sup>, 2008**]
3. Participated in Research Methodology for investigating Natural and Synthetic Drugs with special use of sophisticated instruments organized by KSKV Kachchh University at Bhuj (Gujarat). [**January 22<sup>th</sup> -23<sup>th</sup>, 2010**]
4. Participated in Nanotechnology: How useful in today & tomorrow for Bio-Organic& Natural Sources In Agriculture Farming organized by Nano-Agro Science Co-Operative Society Ltd. (NASCO) at Rajkot (Gujarat). [**May 8<sup>th</sup>, 2010**]
5. Participated in 15<sup>th</sup> ISCB International conference (ISCB-2014) organized by Saurashtra University at Rajkot (Gujarat). [**February 4<sup>th</sup> -7<sup>th</sup>, 2011**]
6. Participated in a national seminar on Nanotechnology: Today & Tomorrow organized by KSKV Kachchh University at Bhuj (Gujarat). [**February 26<sup>th</sup>, 2011**]
7. Participated in Two days Capacity Building ToT Programme (CBCS) organized by KSKV Kachchh University at Bhuj (Gujarat). [**June 27<sup>th</sup> -28<sup>th</sup>, 2011**]
8. Participated in a short term training program on modern techniques in analytical chemistry organized by KSKV Kachchh University at Bhuj (Gujarat). [**July 25<sup>th</sup> - 29<sup>th</sup>, 2011**]
9. Participated in national seminar on catalysis for sustainable development organized by catalysis society of India Baroda, Indian Institute of Chemical Engineers and M.S. University Baroda at Vadodara (Gujarat). [**January 27<sup>th</sup> -28<sup>th</sup> 2012**]
10. Participated in Nanosys 2012 organized by KSKV Kachchh University at Bhuj (Gujarat). [**February 24<sup>th</sup>, 2012**]
11. Participated in national conference on Recent Advances and Current Trends in Medicinal Chemistry and other Chemical Sciences organized by Saurashtra University at Rajkot (Gujarat). [**March 16<sup>th</sup> -18<sup>th</sup>, 2012**]
12. Participated in Modern techniques of instrumentation in Nano science & Nano technology organized by KSKV Kachchh University at Bhuj (Gujarat). [**October 22<sup>nd</sup> -26<sup>th</sup>, 2012**]
13. Participated in Unleashing Green Chemistry and Engineering in Service of Secure Future organized by KSKV Kachchh University at Bhuj (Gujarat). [**October 14<sup>th</sup> - 18<sup>th</sup>, 2013**]

14. Participated in DST-SERB Sponsored Winter School on Computational Chemistry (DST-SERB WSCC 2013) at Sardar Patel University, Vallabh Vidyanagar, (Gujarat). **[December 9<sup>th</sup> -13<sup>th</sup>, 2013]**
15. Participated in Nanosys 2014 organized by KSKV Kachchh University at Bhuj (Gujarat).**[March 28<sup>th</sup>, 2014]**
16. Participated in the workshop on “Marine Ecology of Gujarat Coast” organized by the Department of Life Sciences, Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar (Gujarat). **[October 28<sup>th</sup>, 2015]**
17. Participated in a UGC Sponsored National Conference on Agriculture, Biotechnology & Sustainable Development, organized by Pramukh Swami Science & H. D. Patel Arts College and HVHP Institute Of Post Graduate Studies And Research, Kadi(Gujarat).**[December17<sup>th</sup>-18<sup>th</sup>, 2016]**

Year wise List of Research/Publication/Conference.

Year	Papers	Books	Conference	Poster/Oral Presentation
2007	-----	-----	1	-----
2008	-----	-----	1	-----
2009	-----	-----	-----	-----
2010	-----	-----	2	-----
2011	-----	-----	4	-----
2012	-----	-----	4	1
2013	-----	-----	2	1
2014	-----	-----	1	2
2015	1	-----	1	3
2016	4	-----	1	3
2017	-----	1	-----	2
2018	-----	4	-----	3
2019	-----	-----	-----	-----