



CVs of Prof. Hitendra M. Patel

- Name and full correspondence address:** Prof. (Dr.) Hitendra M. Patel, FRSC, FICS
Professor, Lab: 318, 2nd floor, Department of Chemistry,
Sardar Patel University, Near University Campus,
Vallabh Vidyanagar 388 120.
- Email(s) and contact number(s):** hm_patel@spuvvn.edu , (O) +91-2692-226856 to Ext-,210;
- Institution:** Department of Chemistry, Sardar Patel University, Near University Campus,
Vallabh Vidyanagar 388 120, Gujarat, India.
- Orchid id:** <https://orcid.org/0000-0003-4740-7329>
- Academic Qualification (Undergraduate Onwards)**

	Degree	Year	Subject	University/Institution
1.	B.Sc.	1994	Chemistry/Physics	Veer Narmad South Gujarat University, Surat
2.	M.Sc.	1996	Organic Chemistry	Veer Narmad South Gujarat University, Surat
3.	Ph.D.	2008	Chemistry	Sardar Patel University, V.V.Nagar

6. Ph. D. thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Title: "Synthesis, Characterization and Material Applications of azo dyes based on derivatives of hydroxybenzophenones"

Guide's Name: Dr. B. C. Dixit,

Institute: V. P. & R. P. T. P. Science College, Vallabh Vidyanagar

Name of University: Sardar Patel University, Vallabh Vidyanagar, Gujarat.

Year of Award: 2008

6. Work experience (in chronological order).

Sr. No.	Positions Held	Name of the Institute	From	To	Pay Scale
1	Junior Scientific Assistant	Gujarat Pollution Control Board, Surat	13 th May 1996	14 th March 1997	4500-125-7000
2	Lecturer in Chemistry,	St. Xavier's College, Ahmadabad	15 th March 1997	25 th September 1998.	2200-75-2800-100-4000
3	Lecturer to Associate Professor (Sr. Grade to selection grade to Associate Professor) in Chemistry,	V. P. & R. P. T. P. Science College, Vallabh Vidyanagar	26 th September 1998	4 th February 2015.	37,400-67000
4	Associate Professor in Organic Chemistry,	Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar,	5 th February 2015	to 28 th October 2016	37,400-67000
5	Professor in Chemistry	Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar,	29 th October 2016	to continue	44820 pay band (37,400-67000)

7. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

Sr.No.	Name of Award	Awarding Agency	Year
1	Elected Member, Organizational Council, RSC, London	Royal Society of Chemistry	2020-2023
2	Fellow	Royal Society of Chemistry	2020 onwards
3	Member	American Chemical Society, U.S.A.	2016 onwards
4	Associate Member-Member	Royal Chemical Society, U.K.	2015-2020
5	Life Member	Indian Chemical Society and Biologists, India	2018 onwards
6	Life Member-Fellow Member	Indian Chemical Society	(2011-2023) -2023 onwards
7	Life Member	The Association of Chemical Technologists of India	2010 to continue
8	Member	Advisory Committee for SC/ST Cell, Sardar Patel University, V.V. Nagar, Gujarat	2012 to continue

9	Member of IQAC (Worked as Convener for Criterion-I)	Sardar Patel University, V.V. Nagar, Gujarat	March 2015-2017
10	Member	Board of studies & Faculty Member of Science. S. P. University, V. V. Nagar	2008 to 2011

7. Publications (List of papers published in SCI Journals, in year wise descending order).

Sr. No.	TITLE	Year
1	Catalyst-free synthesis of imidazo [5, 1-b] quinazolines and their antimicrobial activity PJ Patel, RM Vala, SG Patel, DB Upadhyay, DP Rajani, F Damiri, ... Journal of Molecular Structure 1285, 135467	2023
2	Recent developments in the Hantzsch synthesis of dihydropyridines RM Vala, HM Patel Advances in Heterocyclic Chemistry 141, 179-208	2023
3	Polysaccharide-based nanogels for biomedical applications: A comprehensive review F Damiri, S Rojekar, Y Bachra, RS Varma, S Andra, S Balu, CV Pardeshi, ... Journal of Drug Delivery Science and Technology, 104447	2023
4	Water mediated TBAB catalyzed synthesis of spiro-indoline-pyrano [3, 2-c] quinolines as α-amylase inhibitor and in silico studies DB Upadhyay, RM Vala, SG Patel, PJ Patel, C Chi, HM Patel Journal of Molecular Structure 1273, 134305	2023
5	Importance of Hybrid Catalysts toward the Synthesis of 5 H-Pyrano [2, 3-d] pyrimidine-2-ones/2, 4-diones (Thiones) MP Parmar, RM Vala, HM Patel ACS Omega 8 (2), 1759-1816	2023
6	An efficient, catalyst-free and aqueous ethanol-mediated synthesis of 5-((2-aminothiazol-5-yl)(phenyl) methyl)-6-hydroxypyrimidine-2, 4 (1 H, 3 H)-dione derivatives and their ... PJ Patel, SG Patel, DB Upadhyay, L Ravi, A Dhanasekaran, HM Patel RSC advances 13 (35), 24466-24473	2023
7	Synthesis of <i>N</i>-(4-chlorophenyl) substituted pyrano[2,3-c]pyrazoles enabling PKBβ/AKT2 inhibitory and <i>in vitro</i> anti-glioma activity RM Vala, V Tandon, LG Nicely, L Guo, Y Gu, S Banerjee, HM Patel Annals of Medicine 54 (1), 2548-2560	2022
8	Catalyst-Free, Room-Temperature Accessible Regioselective Synthesis of Spiroquinolines and Their Antioxidant Study PJ Patel, DM Patel, RM Vala, SG Patel, DB Upadhyay, Y Pannerselvam, ... ACS omega 8 (1), 444-456	2022
9	Catalytic Stereoselective Multicomponent Reactions for the Synthesis of Spiro Derivatives: Recent Progress DM Patel, PJ Patel, HM Patel European Journal of Organic Chemistry 2022 (46), e202201119	2022
10	Microwave-assisted multicomponent synthesis of antiproliferative 2, 4-dimethoxy-tetrahydropyrimido [4, 5-b] quinolin-6 (7 H)-ones SG Patel, A González-Bakker, RM Vala, PJ Patel, A Puerta, A Malik, ... RSC advances 12 (47), 30404-30415	2022
11	Versatile Synthetic Platform for 1,2,3-Triazole Chemistry DP Vala, RM Vala, HM Patel ACS Omega 7 (42), 36945-36987	2022

12	Crystal structure, antibacterial and antifungal evaluation of 5-bromothiophene based 3, 4-dihydropyrimidin-2-(1 H)-(thi) ones MG Sharma, RM Vala, DP Rajani, V Ramkumar, RL Gardas, S Banerjee, ... Phosphorus, Sulfur, and Silicon and the Related Elements 198 (2), 145-153	2022
13	Synthesis, crystal structure and in silico studies of novel 2,4-dimethoxy-tetrahydropyrimido[4,5-b]quinolin-6(7H)-ones SG Patel, RM Vala, PJ Patel, DB Upadhyay, V Ramkumar, RL Gardas, ... RSC Advances 12 (29), 18806-18820	2022
14	Syrbactin-class dual constitutive-and immuno-proteasome inhibitor TIR-199 impedes myeloma-mediated bone degeneration in vivo V Tandon, RM Vala, A Chen, RL Sah, HM Patel, MC Pirrung, S Banerjee Biosci. Report 44 (2), BSR20212721.	2022
15	One-pot two-step catalytic synthesis of 6-amino-2-pyridone-3, 5-dicarbonitriles enabling anti-cancer bioactivity LG Nicely, RM Vala, DB Upadhyay, J Nogales, C Chi, S Banerjee, ... RSC advances 12 (37), 23889-23897	2022
16	Synthesis and in vitro study of antiproliferative benzyloxy dihydropyrimidinones RM Vala, MG Sharma, DM Patel, A Puerta, JM Padrón, V Ramkumar, ... Archiv der Pharmazie 354 (6), 2000466	2021
17	Pyridine-2-carboxylic acid as an effectual catalyst for rapid multi-component synthesis of pyrazolo[3,4-b]quinolinones MG Sharma, RM Vala, HM Patel* RSC Advances 10 (58), 35499-35504	2020
18	A novel substrate directed multicomponent reaction for the syntheses of tetrahydro-spiro[pyrazolo[4,3-f]quinoline]-8,5'-pyrimidines and tetrahydro-pyrazolo[4,3-f]pyrimido[4,5 ... DM Patel, HJ Patel, JM Padrón, HM Patel* RSC Advances 10 (33), 19600-19609	2020
19	One-Pot Assembly for Synthesis of 1,4-Dihydropyridine Scaffold and Their Biological Applications MG Sharma, J Pandya, DM Patel, RM Vala, V Ramkumar, R Subramanian, ... Polycyclic Aromatic Compounds 39 (5), 395-485	2019
20	Trimethyl glycine betaine based catalyst promoted novel and eco-compatible pseudo four-component reaction for regioselective synthesis of functionalized 6, 8-dihydro-1'H, 5H ... DM Patel, HM Patel* ACS Sustainable Chemistry & Engineering 7 (22), 18667-18676	2019
21	Impact of an aryl bulky group on a one-pot reaction of aldehyde with malononitrile and N-substituted 2-cyanoacetamide RM Vala, DM Patel, MG Sharma, HM Patel RSC Advances 9 (49), 28886-28893	2019
22	A Practical Green Visit to the Functionalized [1,2,4]Triazolo[5,1-b]quinazolin-8(4H)one Scaffolds Using the Group-Assisted Purification (GAP) Chemistry and Their ... DM Patel, RM Vala, MG Sharma, DP Rajani, HM Patel ChemistrySelect 4 (3), 1031-1041	2019
23	Hydroxyl Alkyl Ammonium Ionic liquid assisted Green and One-pot regioselective access to Functionalized Pyrazolodihydropyridine core and their pharmacological evaluation DM Patel, MG Sharma, RM Vala, I Lagunes, A Puerta, JM Padrón, ... Bioorganic chemistry 86, 137-150	2019
24	Synthesis, Molecular Docking and Biological Evaluation of Mannich Products Based on Thiophene Nucleus using Ionic Liquid HM Patel*, DP Rajani, MG Sharma, HG Bhatt Letters in Drug Design Discovery 16 (2), 10.2174/1570180815666180502123743	2019

25	Anti-Proliferative 1,4-Dihydropyridine and Pyridine Derivatives Synthesized through a Catalyst-Free, One-Pot Multi-Component Reaction MG Sharma, RM Vala, DM Patel, I Lagunes, MX Fernandes, JM Padrón, ... ChemistrySelect 3 (43), 12163–12168	2018
26	Synthesis, characterizations and microbial studies of novel mannich products using multicomponent reactions HM Patel Current Bioactive Compounds 14 (3), 278-288	2018
27	Green approach for synthesis of bioactive Hantzsch 1, 4-dihydropyridine derivatives based on thiophene moiety via multicomponent reaction MG Sharma, DP Rajani, HM Patel* Royal Society open science 4 (6), 170006	2017
28	Facile synthesis and biological evaluation of New Mannich products as potential antibacterial, antifungal and antituberculosis agents: molecular docking study HM Patel*, KD Patel, HD Patel Current Bioactive Compounds 13 (1), 47-58	2017
29	Synthesis of new mannich products bearing quinoline nucleous using reusable ionic liquid and antitubercular evaluation HM Patel Green and Sustainable Chemistry 5 (04), 137	2015
30	Synthesis, characterization and dyeing assessment of novel acid azo dyes and mordent acid azo dyes based on 2-hydroxy-4-methoxybenzophenone-5-sulfonic acid on wool and silk fabrics HM Patel, BC Dixit Journal of Saudi Chemical Society 18 (5), 507-512	2014
31	Design, synthesis and biological evaluation of new Mannich products using ethyl ammonium nitrate as reusable ionic liquid. HM Patel IOSR Journal of Applied Chemistry, 7 (8), 40-47,	2014
32	Synthesis, structure investigation and dyeing assessment of novel bisazo disperse dyes derived from UV absorbing material HM Patel IOSR Journal of Applied Chemistry 6, 51-55	2014
33	Solvent-free synthesis of mannich products catalyzed by ethyl ammonium Nitrate as reusable ionic liquid and there in vitro microbial studies. HM Patel International Journal of Recent Scientific Research, 5 (10), 1799-1805	2014
34	Synthesis, characterization and dyeing assessment of novel bisazo-acid dyes derived from 2-hydroxy-4-methoxybenzophenone-5-sulphonic acid HM Patel Int. J. Sci. Engi. Res 5 (1), 2213	2014
35	Synthesis, characterization and dyeing behaviour of heterocyclic acid and mordent dyes on wool and silk fabrics HM Patel Procedia Engineering 51, 363-370	2013
36	Synthesis, characterization and applications of some novel mordent and heterocyclic disperse dyes on polyester and wool fibers HM Patel Orbital: The Electronic Journal of Chemistry 4 (3), 159-170	2012
37	Synthesis, antimicrobial activity and absorption studies of some novel heterocyclic dyes based on 4-hexylbenzene-1, 3-diol HM Patel European Journal of Chemistry 3 (1), 44-50	2012

38	Synthesis, characterization and dyeing behavior of heterocyclic acid dyes and mordent acid dyes on wool and silk fabrics HM Patel Journal of the Serbian Chemical Society 77 (11), 1551-1560	2012
39	Material applications of novel heterocyclic disperse and mordent dyes based on 2-butyl-3-(4-hydroxybenzoyl) benzofuran HM Patel Advances in Applied Science Research 3, 235-241	2012
40	Dyeing assessment of some novel mordent and heterocyclic disperse dyes based on dihydrobenzofuran derivatives on to polyester and wool fibers HM Patel Der Chemica Sinica 3 (1), 175	2012
41	Synthesis, characterization and printing application of solvent dyes based on 2-hydroxy-4-n-octyloxybenzophenone BC Dixit, HM Patel E-Journal of Chemistry 8 (2), 615-620	2011
42	Synthesis, characterization and application of some novel mordent and heterocyclic disperse dyes based on 2-Butyl-3-(4-hydroxybenzoyl)benzofuran HM Patel Der Chemica Sinica 2 (6), 89-96	2011
43	Material Applications of Novel Disperse and Mordent Azo Dyes Based on 2-Hydroxy-4-methoxybenzophenone BC Dixit, HM Patel Asian Journal of Chemistry 22 (2), 921	2010
44	Synthesis, characterization and dyeing assessment of novel acid azo dyes and mordent acid azo dyes based on 2-hydroxy-4-methoxybenzophenone on wool and silk fabrics BC Dixit, HM Patel, RB Dixit, DJ Desai Journal of the Serbian Chemical Society 75 (5), 605-614	2010
45	Studies on dyeing performance of novel acid azo dyes and mordent acid azo dyes based on 2, 4-dihydroxybenzophenone BC Dixit, HM Patel, DJ Desai, RB Dixit E-Journal of Chemistry 6 (2), 315-322	2009
46	Synthesis and application of new mordent and disperse azo dyes based on 2,4-dihydroxybenzophenone BC Dixit, HM Patel, DJ Desai Journal of the Serbian Chemical Society 72 (2), 119-127	2007

8. Detail of patents.

Sr.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country	Status
1	<i>A TETRAHYDOPYRIMIDINECARBOXAMIDE DERIVATIVES</i>	Dipti B. Upadhyay, Raturajsinh M. Vala, Joaquina Nogales, Sourav Banerjee and Hitendra M. Patel	--	Under Review	India	Published

10. Books/Reports/Chapters/General articles etc.

Sr.No	Title	Author's Name	Publisher	Year of Publication
5	Chapter: Deep eutectic mixture (DEM)-assisted multicomponent synthesis of heterocycles Book: Multicomponent Synthesis (Green Bioactive Heterocycles)	Divyang M. Patel, Hitendra M. Patel	De Gruyter , Volume 5 (In print)	2023
5	Chapter: Microneedle of Drug Delivery Systems Book: Nanoscience and Nanotechnology for Smart Prevention, Diagnostics and Therapeutics: Fundamentals and Applications	Fouad Damiri, Sagar Salave, Hitendra M Patel, Mohamed Berrada	Wiley-Scrivener (In print)	2023
4	Recent developments in the Hantzsch synthesis of dihydropyridines	R. M. Vala, H. M. Patel	Advances in Heterocyclic Chemistry, Elsevier, 141, 179-208	2023
3	Synthetic Dyes and Their Applications (Part - 1)	Hitendra M. Patel	LAP LAMBERT Academic Publishing GmbH & Co.,Germany ISBN:978-3-8473-4584-8	
2	Synthetic Dyes and Their Applications (Part - 2)	Hitendra M. Patel	LAP LAMBERT Academic Publishing GmbH & Co.,Germany ISBN:978-3-8484-3761-0	
1	Study Guide To Chemistry	Hitendra M. Patel	LAP LAMBERT Academic Publishing GmbH & Co.,Germany ISBN: 978-3-659-26367-5	

11. Any other Information (maximum 500 words)

Project Completed:

- (1) "An Efficient Synthesis of Biologically Active Compounds via One-Step Synthesis from Diverse Heterocyclic Scaffolds" from DST-SERB, New Delhi, During 2017-2021 (48,62000/-)
- (2) "Synthesis, Characterization and Biological Activity of Some New Heterocyclic Compounds Based on U. V. Absorbing Materials using Mannich Reaction" from UGC, New Delhi, During 2012-2015 (3,19000/-)

Expertise: Organic Chemistry, Ionic Liquids and Deep Eutectic Mixtures, Multi-component Reactions, Anti-proliferative Activity, Synthesis of Heterocyclic Compounds, Medicinal Chemistry, Regioselective and Diastereoselective Synthesis, Green Synthesis, C-C and C-N bond formation, Heterogeneous Catalysis, Metal-free Catalyst, Microwave Assisted Synthesis, DFT calculations, Hirshfeld analysis, Docking studies, Single crystals, Group-Assisted Purification (GAP) Chemistry

12. Doctoral Theses Guided

2022

Synthesis of biologically active heterocyclic compounds bearing pyridine, pyrimidine and pyrazole scaffolds using one-pot reactions

Sardar Patel University, Raturajsinh M. Vala

2021

Development of novel heterocyclic scaffolds via multi component reactions and their Anti-proliferative Activity

Sardar Patel University, Divyang M. Patel

2020

Synthesis of Novel Heterocyclic compounds using multi-component reaction and their biological evaluations.

Sardar Patel University, Mayank G. Sharma

13. Honours and Awards

2021

Top Cited Article 2019-2020

ChemistrySelect, Wiley

2020

CAS Registry Innovator

American Chemical Society

2020

Online course ACS Reviewer Lab

American Chemical Society

2019

Travel Support -2019

DST-SERB

2019

Top 2 % Peer Reviewer award

Publons

2019

Web of Science Certificate

Web of Science and Clarivate Analysis

2019

Associate Editor, Organic Section

Frontiers in Chemistry, Switzerland

2018

Outstanding Contribution Award for reviewing Journal

Journal of Molecular Structure, Elsevier

2018

Brand ambassador 2018-19

Bentham Science Publishers

2017

Distinguished Faculty in Science Award

Venus international Foundation, Chennai, India

14. Expert reviewer in following International Journals

ACS sustainable chemistry & engineering. (3), Arkivoc (12), Archiv der Pharmazie (1), Asian Journal of Organic Chemistry (1), Catalysis communications. (2), Chemistry- an Asian journal (2), ChemCatChem (3),

ChemistrySelect (45), Chemical data collections. (2), Green Chemistry (40), Frontiers in Chemistry (11), Chemistry & biodiversity (2), Chemical data collections (1), Journal of Heterocyclic Chemistry (4), Journal of Chemical Research (2) Journal of Molecular Modelling (1), Journal of Molecular Structure (61), Research on Chemical Intermediates (2), Journal of Medicinal chemistry (3) Medicinal Chemistry Research (7), Molecules (5), Natural Product Research (3), Polycyclic Aromatic Compounds (5), RSC advances (4), SN Applied Sciences (2), Textile Research (22), Fibers and Polymers (3), Molecules. (14)

15. Invited Talks in Conferences and Universities:

More than 85 (State, National, International Conference/Seminar/workshop/symposium) in India and abroad

16. Scientific Visits: U.S.A., France, Spain and U.K.