

Academic Profile of Prof. Dr. Narsidas J Parmar

Name: Dr. Narsidas J. Parmar

Designation: Professor

Specialization: Organic Chemistry

Address: C-4, Univ. Staff Colony, Vallabh Vidyanagar

Office: Department of Chemistry,
Sardar Patel University,
Vallabh Vidyanagar

Telephone: 02692-235739

Fax: +91- 2692 236475

Date of Birth: 29.08.1972

E-mail: njpchemdeptspu@yahoo.co.in

Website: spuvvn.edu

Educational Qualifications: M.Sc., Ph.D. (Chemistry)

Academic Experience: 24 years

Research Area: 24 years

Expertise

- Development of domino, cascade, MCR, and greener synthetic routes for complex molecules of biological interest
- Biological screening, docking and drug discovery studies

No. of Publication: 33

List of Publications

Research Papers in Indexed and Refereed Journals of International Repute

1. Brahmabhatt, G. C., Sutariya, T. R., Atara, H. D., Parmar, N. J., Gupta, V. K., Lagunes, I., Padrón, J. M., Murumkar, P. R., & Yadav, M. R. *New pyrazolyl-dibenzo[b,e][1,4]diazepinones: room temperature one-pot synthesis and biological evaluation*. *Mol Divers* (IF 1.896) 24(2), 355–377 (2020).

2. B. M. Labana, G.C. Brahmhatt, T.R. Sutariya, **N. J. Parmar**, J. M. Padrón, R. Kant, V. K. Gupta *Efficient synthesis and biological evaluation of new Benzopyran-annulated pyrano[2,3-c]pyrazole derivatives* **Mol Divers. (I.F.: 1.896)** 21, 339–354 (2017).
3. B. D. Parmar, T. R. Sutariya, G. C. Brahmhatt, **N. J. Parmar**, R. Kant, V. K. Gupta, *A Base– Catalyzed, Domino Aldol/hetero-Diels-Alder Synthesis of Tricyclic Pyrano [3, 4-c] chromenes in Glycerol*, **J.Org.Chem (I.F.: 4.721)** 2016, 81, 4955–4964 (2016).
4. B. D. Parmar, T. R. Sutariya, G. C. Brahmhatt, **N. J. Parmar**, R. Kant, V. K. Gupta, Prashant R Murumkar, Mayank Kumar Sharma, Mange Ram Yadav, *One-pot synthesis, biological evaluation, and docking study of new chromeno-annulated thiopyrano [2, 3-c] pyrazoles*, **Mol Divers. (I.F.:1.896)** 1-19 (2016).
5. H. A. Barad, T. R. Sutariya, G. C. Brahmhatt, **N. J. Parmar**, I. Lagunes, J. M. Padrón, P. Murumkar, M. Sharma, M. R. Yadav, *A catalyst-and solvent-free multicomponent synthesis and docking study of some new antiproliferative N 5-allyl-quinolylypyrido [2, 3-b][1, 4] benzodiazepinone precursors*, **New J. Chem. (I.F.:3.086)** 40, 4931-4939 (2016).
6. **N. Parmar**, S. Teraiya, R. Patel, H. Barad, H. Jadja, and V. Thakkar, *Synthesis, antimicrobial and antioxidant activities of some 5-pyrazolone based Schiff bases*, **J. Sau. Chem. Soc. (I.F.:1.288)** 19, 36–41 (2015).
7. T. R. Sutariya, B. M. Labana, **N. J. Parmar**, R. Kant, V. K. Gupta, G. B. Plata, J. M. Padrón, *Efficient synthesis of some new antiproliferative N-fused indoles and isoquinolines via 1,3-dipolar cycloaddition reaction in ionic liquid*, **New J. Chem. (I.F.: 3.159)** 39, 2657-2668 (2015).
8. T. R. Sutariya, B. M. Labana, B. D. Parmar, **N. J. Parmar**, R. Kant, V. K. Gupta, *A domino synthetic approach for some new, angular pyrazol– and isoxazol– heterocycles using [DBU][Ac] as an effective reaction medium*, **RSC Adv. (I.F.: 3.208)**, 5, 23519-23529 (2015).
9. **N.J. Parmar**, B. D. Parmar, T. R. Sutariya, R. Kant, V.K. Gupta, *An efficient synthesis of some thiopyranopyrazole-heterocycles via domino reaction in a Brønsted acidic ionic liquid*, **Tetrahedron Lett. (I.F.: 2.34)** 55, 6060–6064 (2014).
10. **N. J. Parmar**, B. M. Labana, H.A. Barad, R. Kant, V. K. Gupta, *An efficient domino Knoevenagel/hetero-Diels–Alder route to some novel thiochromenoquinoline-fused polyheterocycles*, **Monatsh Chem. (I.F. : 1.6)** 145, 1179–1189 (2014).
11. **N.J. Parmar**, B. R. Pansuriya, B. D. Parmar and H. A. Barad, *Solvent-free, one-pot synthesis and biological evaluation of some dipyrazolo[3,4-b: 4',3'-e]pyranylquinolones, their precursors under solvent-free conditions*, **Med. Chem. Res. (I.F.: 1.612)** 23, 42–56 (2014).
12. **N.J. Parmar**, S. B. Teraiya, H. A. Barad, D. Sharma, and V.K. Gupta, *Efficient one-pot synthesis of precursors of some novel aminochromene annulated heterocycles via*

- domino/Knoevenagel-hetero-Diels-Alder reaction*, **Synth. Comm. (I.F.: 1.026)** 43, 1577–1586 (2013).
13. **N.J. Parmar**, B. R. Pansuriya, H. A. Barad, B.D. Parmar, R. Kant and V. K. Gupta, *Triethylammonium acetate-mediated domino/Knoevenagel-hetero-Diels–Alder reaction: synthesis of some angular polyheterocycles*, **Monatsh Chem. (I.F.:1.532)** 144, 865–878 (2013).
 14. **N.J. Parmar**, R. A. Patel, B. D. Parmar and N P. Talpada, *An efficient domino reaction in ionic liquid: synthesis and biological evaluation of some pyrano- and thiopyrano-fused heterocycles*, **Bioorg. Med. Chem. Lett. (I.F. 2.66)** 23, 1656–1661 (2013).
 15. **N. J. Parmar**, H. A. Barad, B. M. Labana, R. Kant, V, K. Gupta, *A glycerol mediated domino reaction: an efficient, green synthesis of polyheterocycles incorporating a new thiochromeno[2,3-b]quinoline unit*, **RSC Adv. (I.F.:3.289)** , 3, 20719–20725 (2013)
 16. **N. J. Parmar**, B. R. Pansuriya, B. M. Labana, R. Kant, and V. K. Gupta, *A convenient 1,3-dipolar cycloaddition–reduction synthetic sequence from 2-allyloxy-5-nitro salicylaldehyde to aminobenzopyran-annulated heterocycles*, **RSC Adv. (I.F.:3.289)** 3, 17527–17539 (2013).
 17. **N.J. Parmar**, H. A. Barad, B. R. Pansuriya and N.P. Talpada, *A highly efficient, rapid one-pot synthesis of some new heteroaryl pyrano[2,3-c]pyrazoles in ionic liquid under microwave-irradiations*, **RSC Adv. (I.F.: 3.289)** 3, 8064–8070 (2013).
 18. **N.J. Parmar**, B. R. Pansuriya, B. M. Labana, T.R. Sutariya, R. Kant and V.K. Gupta, *Access to Some Angular Aminochromeno[2,3-c]pyrazole Precursors by a Domino Knoevenagel–hetero-Diels–Alder Reaction*, **Eur. J. Org. Chem. (I.F.:3.25)**, 5953–5964 (2012).
 19. **N.J. Parmar**, B.R. Pansuriya, H.A. Barad, R. Kant and V.K. Gupta, *An improved microwave assisted one-pot synthesis and biological investigations of some novel aryldiazenyl chromeno fused pyrrolidines*, **Bioorg. Med. Chem. Lett. (I.F.:2.66)** 22, 4075–4079 (2012).
 20. **N.J. Parmar**, H. A. Barad, B. R. Pansuriya, S. B. Teraiya, V. K. Gupta, R. Kant, *An efficient one–pot synthesis, structure, antimicrobial and antioxidant investigations of some novel quinolydibenzo[b,e][1,4]diazepinones*, **Bioorg. Med. Chem. Lett. (I.F.:2.66)** 22, 3816–3821 (2012).
 21. **N. Parmar**, R. Patel, S. Teraiya, D. Sharma, V. Gupta, *Catalyst-, and solvent-free one-pot synthesis of some novel polyheterocycles from aryldiazenyl salicylaldehydes derivatives*, **RSC. Adv. (I.F.:3.289)** 2, 3069–3075 (2012).
 22. **N.J. Parmar**, S. B. Teraiya, R.A. Patel and N. P. Talpada, *Tetrabutylammonium hydrogen sulfate mediated domino reaction: synthesis of novel benzopyran-annulated pyrano[2,3-c]pyrazoles*, **Tetrahedron Lett. (I.F.: 2.34)** 52, 2853–2856 (2011).

23. N.J. Parmar, H.A. Barad, B.R. Pansuriya and R.A. Patel, *Chelation and extraction of copper(II) with 5-pyrazolone-based Schiff bases*, **J. Coord. Chem. (I.F.: 1.66)**, 64(4), 688–698 (2011).
24. N.J. Parmar, S.B. Teraiya and R.A. Patel, *Studies on Oxovanadium(IV), Cr(III), Co(II), Ni(II) and Cu(II) chelates of some bidentate ligands*, **J. Coord. Chem. (I.F.:1.66)**, 63(18):3279-3290(2010).
25. N.J. Parmar and S.B. Teraiya, *Cobalt(II) and Nickel(II) Chelates of some 5-pyrazolone based Schiff base ligands*, **J. Coord. Chem. (I.F.:1.66)**, 62(14), 2388–2398 (2009).
26. P.N. Dave, S.S. Sait and N.J. Parmar, *Studies on Micellization and interfacial adsorption of Polyethylated (30) Laurylether (C12E30) in 0.01 M NaCl at Air water interface*, **J. Ind. Poll. Control**, 23(2), 335-342 (2007).
27. P.N. Dave, N.J. Parmar and S.S. Sait *Adsorption behaviour of Polyacrylamide on oxide surfaces*, **Ultra Sci.** 19(3), 347-354 (2007).
28. P.N. Dave and N. J. Parmar, *Ultrasonic Studies on dye Stain Removal by Surfactants*. **Ultra Sci.**, 19(2), 321-326, (2007).
29. P.N. dave, N.J. Parmar and S.S. Sait, *Preconcentration of Cu(II), Fe(II), Ni(II), Co(II) and Pb(II) Ions in Manganese Salts with Solid Phase Extraction Method*, **J. Ultra. Chem.**, 2(1), 63-70 (2006).
30. P.N. Dave, N.J. Parmar and S. S. Sait, *Thermodynamics of Micellization and Interfacial Adsorption of Polyoxyethylated octyl Phenol in 0.01 M NaCl at Air-Water interface*, **Res. J. Chem. Environ.**, 9(4), 55-58 (2005).
31. R. N. Jadeja, N.J. Parmar and J.R. Shah, *Ligand-bridge Polychelates of 4,4'-(4,4'-biphenylenebisazo)-Disalicylaldehyde Phenylhydrazone*, **Iran. Pol. J. (I.F.: 1.02)**, 14(11), 426-431 (2005).
32. R.N. Jadeja and N.J. Parmar, *Oxovanadium (IV), Cr(III), Fe(II), Fe(III), Ni(II), Cu(II), Zn(II) and UO₂(VI) Chelates from ONNO Donor Schiff base Ligand*, **Synth. React. Inorg. Met.-Org. Nano-Met. Chem. (I.F.: 0.66)**, 35(2), 113-119 (2005).
33. J.R. Shah, D.S. Raj and N.J. Parmar, *Synthesis and Physico-chemical Studies on Nickel(II) Chelates of Some Tetradentate Bidentate Derivatives of 4-Acyl-2-pyrazolin-5-ones*, **Synth. React. Inorg. Met.-Org. Chem. (I.F.: 0.66)**, 34(4), 697-711 (2004).

List of Minor/ Major projects carried out

Sr No	Title of the Project	Funding Agency	Duration	Present Status
1.	Ligational Behaviour of Schiff bases Derived from 4-acyl-substituted 2-pyrazoline-5-one and various diamines.	University Grants Commission, New Delhi	1999-2000 (One year)	Completed

	(amount approved INR 15000.00)			
2.	Chelation and Extractive Spectrophotometric Determination of Copper(II) with Some ONNO Donor Ligands, (amount approved 75,000.00)	University Grants Commission, New Delhi	2005-06 (Two years)	Completed
3.	Synthesis of Bioactive Polyheterocycles <i>via</i> Knoevenagel- <i>hetero</i> -Diels-Alder Reaction Amount approved INR 7,38,800.00)	University Grants Commission, New Delhi	2011-2014 (Three Years)	Completed
4.	A search for biomolecules of pharmaceutical interest via domino synthetic strategies, Amount approved INR 550,000.00	SERB, New Delhi	2016-17 (one year)	Completed

Others

Honors

- Shiksha Rattan Puraskar, by India International Friendship Society, New Delhi, in 2008
- Life member, Indian Society for Analytical Scientists, Vadodra Chapter
- Life member, Research Journal of Chemistry and Environment

Highlights of achievements

Worked

- As a member, management committee, Kendriya Vidyalaya, V.V. Nagar,
- As organising secretary in the National Conference on Emerging Trends and Advances in Chemical Sciences (ETACS-2015), and National Seminar on Innovations and Emerging Dimensions in Chemical Sciences Research (IEDCSR-2016), arranged in the department.
- As a reviewer in scientific journals; JOC, Tetrahedron, RSC Advances, Medicinal Chemistry Research, Journal of Molecular Structure, Organic and biomolecular chemistry etc

Working presently as

- a member, API committee, S.P. Univ.
- a member, SC/ST Cell, S.P. Univ.
- a member, DRAC, Department