Dr. DIPAKKUMAR KANUBHAI RAVAL

Designation: Professor

Specialization: Organic Chemistry

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Educational Qualifications : M.Sc.; Ph.D.

Academic Experience : 32 years

Research Area : Polymer chemistry and Organic chemistry

Expertise : Reaction Mechanism, Stereochemistry, Conformational analysis

No. of Publication : 77

List of Publications :

1. Grafting of Methyl Methacrylate onto Guar gum by Hydrogen peroxide Initiation. D.K.Raval, R.G.Patel and V.S.Patel., J. Appl. Polym. Sci., 35, 2201(1988), Impact factor: 1.768

2. Rheological Properties of Leucaena Glauca gum in Aqueous solution. D.K.Raval, R.G.Patel and V.S.Patel., Starch, 40, 214-18(1988), Impact factor: 4.76

3. Synthesis and Characterization of Leucaena glauca gum Esters. D.K.Raval, R.G.Patel and V.S.Patel., Starch, 40, 285-87(1988), Impact factor: 4.76

4. Graft copolymerization of acrylonitrile on to Guar gum by hydrogen peroxide initiation., D.K.Raval, R.G.Patel and V.S.Patel., Starch, 40, 66-69(1988), Impact factor: 4.76

5. Modification and Characterization of Leucaena Glauca seed gum by Graft Copolymerization with Acrylonitrile., D.K.Raval, M.V.Patel, R.G.Patel and V.S.Patel., Starch, 42, 226-29(1990), Impact factor: 4.76

6. Perspective Study of Vinyl Grafting onto Leucaena Glauca seed gum and Guar gum by Hydrogen peroxide Initiation. D.K.Raval, M.V.Patel, R.G.Patel and V.S.Patel. Starch, 43, 483-87(1991), Impact factor: 4.76

7. Synthesis, Optimization and Characterization of Graft Copolymers from Leucaena glauca seed gum and Methylmethacrylate. D.K.Raval, M.V.Patel, R.G.Patel and V.S.Patel. Carbohydrate Polymers, 17, 115-20(1992)*, Impact factor: 4.76, * Hariohm Ashram Best Research Paper Award-1992-'93.

8. Stability of Leucaena glauca gum Solution at Different pH. D.K. Raval, S.P. Patel, R.G. Patel and V.S. Patel. , Prajna (Jr. of SPU), 2, 21-24(1992)

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10. Study on Thermal Degradation of Plantago ovata Ester, D.K. Raval, U.D. Patel, S.P. Patel, R.G. Patel and V.S. Patel., New Developments in Carbohydrates and Related Natural Products, Edited by M. J. Mulky & Ashok Pandey, Oxford & IBH- New Delhi, 266-73 (1994).

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12. A study on Reaction Influencing Factors in Carboxymethylation of Leucaena glauca seed gum., D.K.Raval, S.P.Patel, R.G.Patel and V.S.Patel., Starch, 46, 399-402(1994)., Impact factor: 4.76

13. The Conservation of some Indian and Chinese Sculptures and the Objects of the Chess sots of Ivory Possessed by the University Museum, D.K.Raval, N.H.Shastri & A.A.Sayed., Prajna (Jr. of SPU), 5, 13-20(1995).

14. Novel Epoxy Based Curing agent for Coating Application. D.K. Raval, R.A. Baraiya & J.R. Thakkar., International Journal of Polymeric Materials and Polymeric Biomaterials, 38, 1-5 (1997), DOI: 10.1080/00914039708031490, Impact factor: 3.568

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27. Studies on cyanoethylation of plantago ovata seed husks (psyllium)., M. R. Prajapati, J. K. Parmar, J. P. Patel & D. K. Raval, Prajna [SPU Research Journal, ISSN 0975-2595], 17, 94-98(2009)

28. A study on composites from phenol-formaldehyde-casein resin., S.K. Vyas, J.K. Parmar & D.K. Raval , J.Appl.Polym.Sci., 115, 2838–2846 (2010), Impact factor: 1.768

29. A Convenient and Efficient Protocol for the One Pot Synthesis of 3,4-Dihydropyrimidin-2-(1H)-ones Catalyzed by Ionic Liquids under Ultrasound Irradiation, A.N. Dadhania, V.K. Patel & D.K. Raval, J. Braz. Chem. Soc., 22(3), 511-516(2011), Impact factor: 1.434

30. Catalyst-free Sonochemical Synthesis of 1,8-Dioxo-octahydroxanthene Derivatives in Carboxy Functionalized Ionic Liquid, A.N. Dadhania, V.K. Patel & D.K. Raval, Comptes Rendus Chimie, 15 , 378–383 (2012), Impact factor: 1.92

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41. Ionic liquid promoted multi component one pot Hantzsch condensation: A novel and efficient route for the synthesis of polyhydroquinolines, V. K. Patel, A.N.Dadhania & D. K. Raval, Prajna, [SPU Research Journal, ISSN 0975-2595],

42. Ionic liquid promoted facile and green synthesis of 1,8-dioxo-octahydroxanthene derivatives under microwave irradiation, A.N. Dadhania, V.K. Patel & D.K. Raval, J. Saudi Chemical Soc., in press (2014), accepted manuscript, Impact Factor: 2.523

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48. Heteropolyanion-based sulfated Ionic Liquid catalyzed formamides synthesis by grindstone chemistry, Satasia Shailesh, Kalaria Piyush and D. K. Raval, Journal of Molecular Catalysis A: Chemical, 391, 41–47 (2014), Impact factor: 3.615

49. Synthesis, identification and in vitro biological evaluation some novel 5-imidazopyrazole incorporated pyrazoline and isoxazoline derivatives, Kalaria Piyush, Satasia Shailesh and D. K. Raval, New J. Chem., 38, 2902-2910 (2014), Impact factor: 3.086

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54. Design, synthesis and molecular docking of novel bipyrazole based thiazolone scaffold as a new class of antibacterial agents, P. N. Kalaria, J. A. Makawana, S. P. Satasia, D. K. Raval and H. L. Zhu, Medicinal Chemistry Communications, 5, 1555-1562 (2014), Impact factor: 2.495

55. Cu(N-heterocyclic carbene)chloride: An efficient catalyst for multicomponent click reaction for the synthesis of 1,2,3-triazoles in water at room temperature, Purohit Vishal B., Karad Sharad C., Patel Kirit H. and D. K. Raval, RSC Advances, 4, 46002–46007 (2014), Impact factor: 3.84

56. Green synthesis and pharmacological screening of polyhydroquinoline derivatives bearing a fluorinated 5-aryloxypyrazole nucleus, Sharad C. Karad, Vishal B. Purohit, Dipak K. Raval, Piyush N. Kalaria, Jemin R. Avalani, Parth Thakor and Vasudev R. Thakkar, RSC Advances, 5, 16000–16009 (2015), Impact factor: 3.84

57. Palladium N-heterocyclic carbene catalyzed regioselective CH halogenation of 1-Aryl-3-methyl- 1H-pyrazol-5 (4H)-ones using N-halosuccinimides (NXS), VB Purohit, SC Karad, KH Patel and DK Raval, Catalysis Science & Technology, 5, 3113-3118 (2015), Impact factor: 5.426

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63. Highly Enantioselective sulphaMichael addition to α,β-unsaturated carbonyl scaffolds at room temperature in water catalysed by Allyloxy-N-(1-benzyl)cinchonidinium bromide, Piyush N. Kalaria, Jemin R. Avalani, Dipak K. Raval, Tetrahedron: Asymmetry, 27, 947-953 (2016), Impact Factor: 2.108

64. Synthesis and biological screening of novel 2-morpholinoquinoline nucleus clubbed with 1,2,4-oxadiazole motifs, Sharad C. Karad, Vishal B. Purohit, Rahul P. Thummar, Beena K. Vaghasiya, Ronak D. Kamani, Parth Thakor, Vasudev R. Thakkar, Sampark S. Thakkar, Arabinda Ray and Dipak K. Raval, European Journal of Medicinal Chemistry, 126, 894-909 (2017), Impact factor: 3.447

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66. A novel sulphated choline (IL) based FeCl4: Heterogeneous catalyst for the synthesis of spiro indolinequinazoline derivatives under mild conditions, Beena K. Vaghasiya, Nirav H. Sapariya, Shailesh P. Satasia, Rahul P. Thummar, Ronak D. Kamani and Dipak K. Raval, Heterocyclic Letters, 7, 357-368 (2017)

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69. Synthesis, characterization, in silico molecular docking study and biological evaluation of 5- (phenylthio) pyrazole based polyhydroquinoline core moiety, Nirav H. Sapariya, Beena K. Vaghasiya, Rahul P. Thummar, Ronak D. Kamani, Kirit H. Patel, Parth Thakor, Sampark S. Thakkar, Arabinda Ray and Dipak K. Raval, New J. Chem., 41, 10686-10694 (2017), Impact Factor: 3.086

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72. Oxidative cyanide-free cyanation on arylboronic acid derivatives using aryl/heteroaryl thiocyanate using novel IL-PdCl4 catalyst under mild condition, Beena K. Vaghasiya, Shailesh P. Satasia, Rahul P. Thummar, Ronak D. Kamani, Jemin R. Avalani, Nirav H. Sapariya and Dipak K. Raval, Journal of Sulfur Chemistry, (2018) DOI: 10.1080/17415993.2018.1469632

73. A review on diverse heterocyclic compounds as the privileged scaffolds in antimalarial drug Discovery, Piyush Kalaria, Sharad C. Karad and Dipak K. Raval, European Journal of Medicinal Chemistry, 158, 917-936 (2018), Impact factor: 3.447

74. A highly efficient and solvent free approach for the synthesis of quinolines and fused polycyclic quinolines catalyzed by magnetic nano-particle supported acidic ionic liquid, Harsh N. Dadhaniya, Abhishek N. Dadhaniya and D. K. Raval, Polycyclic Aromatic Compounds, 2019 DOI: 10.1080/10406638.2019.1595057, Impact Factor: 1.237

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List of Minor/ Major projects carried out Four UGC Sponsored Minor Research Projects
Seed Grant project, Sardar Patel University, Vallabh Vidyanagar

Others

Teaching Organic Chemistry at M.Sc. since 1989

Honors:

- Fellow, Gujarat Science Academy
- Life Member, Indian Council of Chemists
- Life Member, All India Association of Carbohydrate Chemists and Technologists
- Life Member, Vigyan Gurjari, Vigyan Bharati-Gujarat Unit [LM-265]

Highlights of achievements

- Served as I/C Head, Department of Pharmaceutical Sciences, Sardar Patel University, Vallabh Vidyanagar from 24-02-2010 to 28-07-2020
- Serving as I/C Dean, Faculty of Pharmaceutical Sciences, Sardar Patel University, Vallabh Vidyanagar from 23-02-2012
- UGC Nominee, Advisory Committee, SAP DRS-I, Department of Chemistry, Rashtra Sant Tukadoji Maharaj University, Nagpur [1-4-16 to 31-3-21]
- Member, IQAC Cell, V P & R P T P Science College, Vallabh Vidyanagar
- Expert Member, Board of studies in Applied Chemistry, Maharaja Sayajirao University of Baroda, Vadodara
- Subject Expert, Research Advisory Committee, Department of Chemistry, Saurashtra University, Rajkot
- Member, Board of Studies in Chemistry, Sardar Patel University, Vallabh Vidyanagar
- Member, Examination Reform Council, Sardar Patel University, Vallabh Vidyanagar
- Member, Board of Studies in Chemistry, Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar

- Subject Expert, Research Advisory Committee, Department of Chemistry, K. S. K. V. Kachchh University, Bhuj
- Member, Publication Board, Sardar Patel University, Vallabh Vidyanagar
- Member, Research Advisory Committee, Department of Chemistry, Veer Narmad South Gujarat University, Surat
- Convener, Pariksha Sucharu Samiti, Sardar Patel University, Vallabh Vidyanagar
- Convener, Syllabus Revision Committee for PG courses in Chemistry, Sardar Patel University, Vallabh Vidyanagar
- Member, Editorial Board, Prajna-Research Journal, Sardar Patel University, Vallabh Vidyanagar
- Coordinated Central Assessments for all B. Sc. ,B.C.A. , M.Sc.Examinations- Sardar Patel University
- Member, Post Graduate Board of Studies in Chemistry, Charutar University of Science and Technology, CHARUSAT, Changa
- Member on Planning and Monitoring Board, Sardar Patel University from 01-04-2015 to 31-03-18
- Member, Program Production Sub-Committee, Sardar Patel University FM Radio Station, 2017-18]
- Conducted NEET-2019 and NEET-2020 at Sardar Patel University, Vallabh Vidyanagar as centre coordinator
- Member, Organizing Committee, National seminars, workshops and conferences
- Delivered talks at several National events, refresher courses, UGC exchange fellow and as invited lectures.