Faculty Details proforma for DU Web-site

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Title	Prof./Dr./Mr./Ms./ Mrs.	First Name	Surendra	Last Name	Singh	Photograph
Designation		Assistant Professor				
Address		Department of Chemistry University o Delhi				
Phone No	Office					
	Residence					
	Mobile	+919582554189				
Email		Ssingh1@chemistry.du.ac.in				
Web-Page						

Educational Qualifications

Degree	Institution	Year
Ph.D.	Central Salt & Marine Chemical Research Institute, Bhavnagar, Gujarat **(Title:** Synthesis and Characterization of Chiral Salen Transition Metal Complexes as Enantioselective Epoxidation Catalyst)	2006
M.Phil. / M.Tech.	-------	
PG	S. D. Govt. College, Beawer, Rajasthan (M. D. S. University Ajmer, Rajasthan)	2000
UG	S. D. Govt. College, Beawer, Rajasthan (M. D. S. University Ajmer, Rajasthan)	1998
Any other qualification		

Career Profile

1.	Assistant Professor	University of Delhi	10th March 2010 to till date
2.	Postdoctoral Researcher (IRCSET Fellow)	Centre for Synthesis and Chemical Biology University College Dublin, Ireland	Sept, 2006 to Jan, 2010
3.	Ph.D	Central Salt and Marine Chemical Research Institute (CSMCRI), Bhavnagar, Gujarat,	May, 2002 to Sept, 2006

Administrative Assignments

1. **Deputy Coordinator for Central Evaluation System of Department of Chemistry, Sem. I & III, 2010**
2. **Deputy Coordinator for Central Evaluation System of Department of Chemistry, Sem. II & IV, 2015**
3. **Departmental Purchase Committee member 2015-17**
4. **Section Convener 2015-16**
5. **DST-FIST proposal preparation committee**
6. **400 MHz NMR purchase committee member under DST-FIST grant**
7. **400 MHz NMR purchase committee member under XII plan grant**

Areas of Interest / Specialization

Organic Chemistry Specialization (Development of catalyst for industrially useful organic transformations, Asymmetric catalysis, Total synthesis of biological important molecules, Synthetic methodology development)

Subjects Taught

1. **M. Sc.**

(I) **Organic Stereochemistry**

(II) Methods in Organic Synthesis

(III) **Spectroscopy of Organic Compounds**

(IV) **Photochemistry**

2. **Ph. D. Course work**

(I) **UNIT-XXVI: Metal Catalyzed Cross coupling reactions**

(II) **UNIT-XXXI: Organic Name Reactions**

Research Guidance

List against each head (If applicable)

1. *Supervision of awarded Doctoral Thesis*
   - (i) *Dr. Mohd. Rashid*
   - (ii) *Dr. Manmohan Singh Chauhan*
   - (iii) *Dr. Pramod Kumar*
   - (iv) *Dr. Geeta Devi Yadav*
   - (v) *Ms. Sweta Dumoga (Submitted)*

2. *Supervision of Doctoral Thesis, under progress*
   - (vi) *Mr. Ashish Dixit*
   - (vii) *Ms. Deepa*
   - (viii) *Mohd Jubair Aalam*
3. *Supervision of awarded M.Phil dissertations* *Nil*
4. *Supervision of M.Phil dissertations, under progress* *Nil*

Publications Profile

List against each head(If applicable) (as Illustrated with examples)

Books/Monographs (Authored/Edited) **Nil**

Research papers published in Refereed/Peer Reviewed Journals

[1] Asymmetric Henry reaction catalyzed by chiral Cu(II) salalen and salan complexes derived from (S)-proline. A., Dixit; P., Kumar; G. D., Yadav; S., Singh *Inorganica Chimica Acta*, **2018,** *479*, 240.

[2] Block copolymer based nanoparticles for theranostic intervention of Cervical Cancer: Synthesis, pharmacokinetics and in-vitro/ in-vivo evaluation in HeLa xenograft models. S. Dumoga; Y., Rai; A. N. Bhatt; A. K. Tiwari, S. Singh, A. K. Mishra*, D. Kakkar*, *ACS Appl. Mater. Interfaces*, **2017**, *9*, 22195

[3] 1,4-Diazabicyclo[2.2.2]octane trifluoroacetate: A highly efficient organocatalyst for the cyanosilylation of carbonyl compounds under solvent free condition. G. D.,Yadav, Deepa and S. Singh* *ChemistrySelect*, **2017**, *2*, 4830

[4] (L)-Prolinamide imidazolium hexafluorophosphate ionic liquid as an efficient reusable organocatalyst for direct asymmetric aldol reaction in solvent-free condition G. D. Yadav and **S. Singh*** *RSC Adv.*, **2016**, 6, 100459

[5] *trans*-4-Hydroxy-(*L*)-prolinamide as an efficient catalyst for direct asymmetric aldol reaction of acetone with isatins, G. D. Yadav and **S. Singh*** *Tetrahedron: Asymmetry* **2016**, *27*, 463

[6] *N*-Arylprolinamide act as an organocatalyst for direct asymmetric aldol reaction of acetone with isatin G. D. Yadav and S. Singh* *Tetrahedron: Asymmetry* **2016**, *27*, 123

[7] Salts of 1-(Chloromethyl)-DABCO: A highly efficient organocatalyst for the alcoholysis of epoxides A. Dixit, G. D. Yadav, M. S. Chauhan and S. Singh* *Current catalysis*, **2016**, 5, 203.

[8] Asymmetric Henry Reaction Catalyzed by Manganese Complexes, P. Kumar, M. S. Chauhan, G. D. Yadav and **S. Singh*** Synfact **2016**, *12(4)*, 0382

[9] Surfactant directed $Ag_{1-x}Ni_x$ alloy nanoparticle catalysed synthesis of aromatic azo derivatives from aromatic amines, M. Kumar, K. Soni, G. D. Yadav, S. Deka* *Applied Catalysis A: General*, **2016**, *525*, 50-58

[10] (S)-Pyrrolidine-containing chiral manganese (III)-salalen and salan complexes as catalyst for the asymmetric Henry reaction P. Kumar, M. S. Chauhan, G. D. Yadav and **S. Singh*** Synlett **2016**, *27*, 267

[11] Novel biotin-functionalized lipidic nanocarriers for encapsulating BpT and Bp4eT iron chelators: evaluation of potential anti-tumour efficacy by *in vitro*, *in vivo* and pharmacokinetic studies in A549 mice models S. Demoga, N. Dey, A. Kaur, **S. Singh**, A. K. Mishra*, D. Kakar* ***RSC Adv.***, **2016**, 6, 61585

[12] Yttrium Containing Dimeric and Tetrameric Keggin Type Phosphotungstates: Syntheses, Crystal Structure and Catalytic Activity for Alcohol Oxidation Using H_2O_2 as an Oxidant in Water F. Hussain*, M. K. Saini, R. Gupta and S. Singh *Current Catalysis* **2016**, 5, 66

[13] Direct asymmetric aldol reaction catalyzed by trans-4-hydroxy-(S)-prolinamide in solvent-free conditions G. D. Yadav and **S. Singh*** *Tetrahedron: Asymmetry* **2015**, *26*, 1156

[14] Methyloxonium Triflate: an Efficient Catalyst for ring Opening of Epoxides with Alcohols under Ambient Conditions G. D. Yadav, M. Mishra and **S. Singh*** *Current Catalysis* **2015**, 4, 133

[15] Synthesis of MacMillan catalyst modified with ionic liquid as a recoverable catalyst for asymmetric Diels–Alder reaction M. S. Chauhan, P. Kumar and **S. Singh*** *RSC Adv.*, **2015**, 5, 52636

[16] Asymmetric reduction of ketones catalyzed by a, a-diphenyl-(L)-prolinol modified with imidazoliumionic liquid and $BH_3{\cdot}SMe_2$ as a recoverable catalyst M. S. Chauhan, **S. Singh*** *Journal of Molecular Catalysis A: Chemical* **2015**, *398*, 184

[17] Synthesis, crystal structure and catalytic activity of the guanidinium cation directed nickel(II)-containing open Wells–Dawson 19-tungstodiarsenate(III) $[\{Ni(H_2O)_4\}_2\{Na(H_2O)\}\text{-}As_2W_{19}O_{67}(H2O)]^{9-}$ M. Saini, R. Gupta, **S. Singh** and F. Hussain*, *RSC Adv.***, 2015**, 5, 25273

[18] Chiral Mn^{III}–salalen and –salan Complexes Derived from (*S*)-Pyrrolidin-2-ylmethanamine and Their Catalytic Activity in the Asymmetric Strecker Reaction P. Kumar, S. Saravanan, N. H. Khan, F. Hussain, **S. Singh***, *Eur. J. Inorg. Chem.***, 2014,** 5077

[19] Lanthano-phosphotungstates: A water soluble and reusable catalyst for oxidation of alcohols using H_2O_2 as an oxidant M. Saini, R. Gupta, S. Parbhakar, **S. Singh*** and F. Hussain*, ***RSC Adv.***, 2014, 4, 38446

[20] *N*-Fluorobenzenaminium tetrafluoroborate generate in situ by aniline and Selectfluor as a reusable catalyst for ring opening of epoxides with amines under microwave irradiation M. S. Chauhan, G. D. Yadav, F. Hussain, **S. Singh*,** *Catal. Sci. Technol.*, **2014**, 3945

[21] Ring opening of epoxides with alcohols using $Fe(Cp)_2BF_4$ as catalyst G. D. Yadav and **S. Singh*** *Tetrahedron Lett.* **2014**, *55*, 3979.

[22] $Fe(Cp)_2BF_4$: An efficient Lewis acid catalyst for the aminolysis of epoxides G. D. Yadav, M. S. Chauhan and **S. Singh*** *Synthesis*, **2014**, 629

[23] Synthesis of rhenium-based $M_2LL¢$-type supramolecular coordination complexes from flexible ligands, B. Shankar, P. Elumalai, P. J. Jackmil, P. Kumar, **S. Singh**, M. Sathiyendiran *Journal of Organometallic Chemistry* **2013**, *743*, 109

[24] Asymmetric Synthesis of (+)-Tanikolide and the β-Methyl-Substituted Analogues of (+)-Tanikolide and (–)-Malyngolide, R. Doran, L. Duggan, **S. Singh**, C. D. Duffy, and P. J. Guiry*, *Eur. J. Org. Chem* **2011**, 7097

[25] A Short and Efficient Asymmetric Synthesis of (–)-Frontalin, (–)-*exo*-Isobrevicomin and volatile component of Beer-Aroma. **S. Singh**, Patrick. J. Guiry*, *Tetrahedron* **2010**, *66*, 5701

[26] Microwave assisted synthesis of substituted Tetrahydropyrane catalysed by $ZrCl_4$ and Application in Asymmetric synthesis of (-)-*endo*-brevicomin and (+)-*exo*-brevicomin. **S. Singh** and P. J. Guiry*, *J. Org. Chem.* **2009,** *74*, 5758

[27] A Facile Synthesis of both Enantiomers of 6-Acetoxy-5-hexadecanolide, a Major Component of Mosquito Oviposition Attractant Pheromones **S. Singh** and P. J. Guiry*, *Eur. J. Org. Chem* 2009, 1896

[28] A Novel, Chemoselective and Efficient Microwave-Assisted Deprotection of Silyl Ethers with Selectfluor S. T. Ali Shah. **S. Singh**, and P. J. Guiry*, *J. Org. Chem.* 2009, *74*, 2179

[29] $ZrCl_4$ as An Efficient Catalyst for a Novel One-Pot Protection/ deprotection Synthetic Methodology **S. Singh**, C. D. Duffy, S. T. Ali Shah and P. J. Guiry*, *J. Org. Chem.* 2008, *73*, 6429

[30] $Fe(Cp)_2PF_6$ Catalyzed Efficient Strecker Reaction of Ketones and Aldehydes under Solvent free Condition N. H. Khan*, S. Agrawal, R. I. Kureshy, S. H. R. Abdi, **S. Singh**, E. Suresh, and R. V. Jasra., *Tetrahedron Lett.* **2008,** *49,* 640

[31] Chiral Recyclable Dimeric and Polymeric Cr(III) Salen Complexes Catalyzed Aminolytic Kinetic Resolution of *trans*-aromatic Epoxides under Microwave Irradiation R. I. Kureshy*, K. J. Pratap, **S. Singh**, S. Agrawal, N. H. Khan, S. H. R. Abdi and R. V. Jasra*, Chirality* **2007,** 19*,* 809

[32] Efficient Method for Ring Opening of Epoxides with Amines by NaY Zeolite under Solvent-Free Conditions R. I. Kureshy*, **S. Singh**, N. H. Khan, S. H. R. Abdi, E. Suresh and R. V. Jasra*, J. Mol. Catal. A: Chemical* **2007***, 264,* 162

[33] $Fe(Cp)_2PF_6$: An Efficient Catalyst for Cyanosilylation of Carbonyl Compounds under Solvent Free Condition N. H. Khan*, S. Agrawal, R. I. Kureshy, S. H. R. Abdi, **S. Singh** and R. V. Jasra, *Journal of Organometallic Chemistry* **2007,** *692,* 4361

[34] Environment Friendly Protocol for Enantioselective Epoxidation of Non-functionalized Alkenes Catalyzed by Recyclable Homochiral Dimeric Mn(III)salen Complexes with Hydrogen peroxide and UHP Adduct as Oxidants.*,* R. I. Kureshy*, **S. Singh**, N. H. Khan, S. H. R. Abdi, I. Ahmad, A. Bhatt and R. V. Jasra, *Catalysis Letters* **2006***, 107,* 127

[35] Enantioselective Aminolytic Kinetic Resolution (AKR) of Epoxides Catalyzed by Recylable Polymeric Cr(III) Salen Complexes R. I. Kureshy*, **S. Singh**, N. H. Khan, S. H. R. Abdi, S. Agrawal and R. V. Jasra*, Tetrahedron:Asymmetry* **2006,** *17*, 1638

[36] Microwave-assisted Asymmetric Ring opening of M*eso* Epoxides with Aromatic amines Catalyzed by a Ti-*S*-(-)-BINOL Complex R. I. Kureshy*, **S. Singh**, N. H. Khan, S. H. R. Abdi, Santosh Agrawal, V. J. Mayani and R. V. Jasra, *Tetrahedron Lett.* **2006**, *47*, 5277

[37] Facile Enantioselective Ring opening Reaction of *Meso* Epoxides with Anilines using Ti-(*S*)-(–)-BINOL Complex as Catalyst R. I. Kureshy*, **S. Singh**, N. H. Khan, S. H. R. Abdi, E. Suresh and R. V. Jasra*, Eur.*

J. Org. Chem. **2006,** 1303

[38] Improved Catalytic Activity of Homochiral Dimeric Cobalt Salen Complex in Hydrolytic Kinetic Resolution of Terminal Racemic Epoxides R. I. Kureshy*, **S. Singh**, N. H. Khan, S. H. R. Abdi, I.Ahmad, A. Bhatt and R. V. Jasra, *Chirality***, 2005,** *17,* 590

[39] New Immobilization Chiral Mn(III) Salen on Pyridine N-Oxide Modified MCM-41 as Effective Catalysts for Epoxidation of nonfunctionalized Alkenes R. I. Kureshy*, I. Ahmad, N. H. Khan, S. H. R. Abdi, **S. Singh,** P. H. Pandiya and R. V. Jasra, *Journal of Catalysis* **2005,** *235, 24*

[40] Enantioselective Epoxidation of Non-Functionalised Alkenes Catalysed by Recyclable new Homo Chiral Dimeric Mn(III) Salen complexes R. I. Kureshy*, N. H. Khan, S. H. R. Abdi, **S. Singh**, I. Ahmad, R.V. Jasra and A. P. Vyas, *Journal of Catalysis* **2004***, 224,* 22.

[41] Catalytic Asymmetric Epoxidation of non-functionalised Alkenes using Polymeric Mn(III) Salen as Catalysts and NaOCl as Oxidant R. I. Kureshy*, N. H. Khan, S. H. R. Abdi, **S. Singh**, I. Ahmad and R. V. Jasra. *Journal of Molecular Catalysis A: Chemical* **2004,** *218,* 141

[42] Dicationic chiral Mn(III) Salen complex Exchanged in the inter-layers of Montmorillonite clay: A Heterogeneous Enantioselective catalysts for Epoxidation of nonfunctionalised Alkenes R. I. Kureshy*, N. H. Khan, S. H. R. Abdi, I. Ahmad, **S. Singh** and R. V. Jasra. *Journal of Catalysis* **2004***, 221,* 234

[43] Chiral Mn (III) Salen Complex-catalyzed Enantioselective Epoxidation of non-functionalized Alkenes using urea-H_2O_2 Adduct as Oxidant R. I. Kureshy*, N. H. Khan, S. H. R. Abdi, **S. Singh**, I. Ahmad, R. S. Shukla and R. V. Jasra, *Journal of Catalysis* **2003,** *219,* 1

[44] Enantioselective Epoxidation of non-functionalized Alkenes Catalysed by Dimeric Homochiral Mn(III) Salen complex using Oxone as Oxidant R. I. Kureshy*, N. H. Khan, S. H. R. Abdi, I. Ahmad, **S. Singh** and R. V. Jasra, *Journal of Molecular Catalysis A: Chemical* **2003,** 203**,** 69

[45] Immobilization of Dicationic Mn(III) Salen in the interlayers of Montmorillonite clay for Enantioselective Epoxidation of non-functionalised Alkenes R. I. Kureshy*, N. H. Khan, S. H. R. Abdi, I. Ahmad, **S. Singh** and R. V. Jasra, *Catalysis Letters* **2003,** *91*, 207.

Conference Organization/ Presentations (in the last three years)

List against each head(If applicable)

Organization of a Conference: Nil

Participation as Paper/Poster Presenter

S.No	Title of the Paper presented	Details of Conference / Seminar/ Workshop/ Symposia	Whether the Conference Proceedings are published. ISBN/ISSN	Whether First/ Corresponding	Whether International/National/Regional/State/ University/College level
1	Poster entitled "Production of highly enantioselective epoxides and diols using Co(III) Salen complexes via	1st Indo-German Conference on Catalysis, held at **IICT Hyderabad,**	No	Co-author	International

	hydro-kinetic resolution of racemic epoxides"	**February 6-8, 2003.**			
2	A paper entitled, "Homochiral Dimeric Mn(III) Salen complex-catalysed enantioselective epoxidation of non-functionalised alkenes using NaOCl as oxidant.	TAGRSM-2003 organized by Indian Chemical society **Vadodara Chapter on 23rd February 2003** **(Best Paper))Presentation)**	No	Co-author	State
3	A poster entitled," Catalytic asymmetric epoxidation of non-functionalised alkenes using polymeric Mn(III) salen as catalysts and NaOCl as oxidant"	Symposium on Modern Trends in Inorganic Chemistry, held at IIT Mumbai, 15-17 Dec. 2003.	No	Co-author	National
4	A paper presented "Enantioselective epoxidation of non-functionalised alkenes using recyclable homochiral dimeric Mn(III) Salen complexes as catalysts with hydrogen peroxide and UHP adduct as oxidants"	First Junior NOST Symposium Organized by NCL, Pune 8-10 November 2004	No	Co-author	National
5	A poster entitled "A Facile Catalytic Enantioselective Synthesis of syn- - Amino alcohols by Ring opening of meso Aromatic epoxides with Aromatic amines by Ti(BINOL) Complexes"	17 National Symposium on Catalysis held at CSMCRI Bhavnagar Jan 18-20, 2005	No	Co-author	National
6	A poster entitled "Synthesis of Polymeric Cr(III) Salen complexes for Asymmetric Kinetic resolution of trans epoxides with anilines"	Symposium on Modern Trends in Inorganic Chemistry (MTIC-XI) held at IIT Delhi Dec.8-10, 2005.	No	Co-author	National
7	A poster entitled "A Novel one-pot Protection/deprotection synthetic methodologies	ESF-COST High-Level Research Conference Natural Products Chemistry, Biology and	No	First Author	International

	catalysed by $ZrCl_4$ for the synthesis of key intermediates of Lipoxin analogues and mosquito attractant pheromones"	Medicine held at **Acquafredda di Maratea, Italy 18-23 May 2008**.			
8	A poster entitled "Selectfluor as a reusable catalyst chemo-and regio-selective ring opening of epoxides with amines under microwave irradiations	15th CRSI National Symposium in Chemistry held at BHU, Banaras on **February 1-3, 2013**.	No	Corresponding Author	National
9	A poster entitled "Synthesis and Characterization of L-Prolinamide Based Chiral Mn(III) Salalen Complexes and Their Applications in Asymmetric Catalysis	**19th ISCB International Conference (ISCBC-2013), 2nd-5th March, 2013** at Department of Chemistry, Mohanlal Sukhadia University, Udaipur, Rajasthan.	No	Corresponding Author	International
10	An oral presentation entitled "Synthesis and Characterization of L-Prolinamide Based Chiral Mn(III) Salalen Complexes and Their Applications in Asymmetric Strecker Reaction."	**National Conference on Chirality (NCC)-2013, 7-8, December 2013,** Department of Chemistry, Faculty of Science, M.S. University of Baroda, Vadodara, Gujarat,	No	Corresponding Author	National
11	A poster entitled 'Synthesis and Characterization of Chiral Prolinamide modified with ionic liquid for asymmetric Aldol Reaction"	**National Conference on Chirality (NCC)-2013, 7-8, December 2013,** Department of Chemistry, Faculty of Science, M.S. University of Baroda, Vadodara, Gujarat,	No	Corresponding Author	National
12	A poster entitled "Synthesis and Characterisation of Ionic Liquid with Prolinol as Recyclable Catalyst for Asymmetric Reduction of Ketones"	**20th ISCB International Conference** at University of Delhi on March 1-4, 2014.	No	Corresponding Author	International
13	A poster entitled "Ring-	**20th ISCB International**	No	Corresponding	International

	opening of epoxides with alcohol using $Fe(Cp)_2BF_4$ as catalyst"	**Conference** at University of Delhi on March 1-4, 2014.		Author	
14	A poster entitled "Synthesis and characterization of Prolinol based chiral ionic liquid"	**One-day Symposium on Emerging trends in translation research in India** Shiv Nadar University, India on 12th April, 2014	No	Corresponding Author	National
15	A poster entitled "Highly efficient regio-selective methanolsis of epoxide catalyzed $Fe(Cp)_2BF_4$"	**One-day Symposium on Emerging trends in translation research in India** Shiv Nadar University, India on 12th April, 2014	No	Corresponding Author	National
16	A oral presentation entitled " Synthesis and development of chiral salalen and salan ligands and its transition metal complexes for asymmetric organic transformations	**National Conference on Mastering in Molecules and Materials (M^3-2014)** 16-17 Oct 2014, NIT Kurkshetra	No	First and corresponding Author	National
17	An poster entitled "$Fe(Cp)_2BF_4$ as a Lewis acid catalyst for ring opening of epoxides with amines"	**National Conference on Mastering in Molecules and Materials (M^3-2014)** 16-17 Oct 2014, NIT Kurushetra, Haryana	No	corresponding Author	National
18	An oral presentation entitled " Development of recoverable chiral 1,3,2-oxazaborolidine catalyst for asymmetric reduction of ketones	**22nd National Symposium on Catalysis (CATSYMP 22) CSIR-CSMCRI** January 7-9,2015	No	corresponding Author	National
19	Trans-4-hydroxy-L-prolinamide act as an efficient catalyst for asymmetric aldol reaction	22nd National Symposium on Catalysis **(CATSYMP 22)** held at **CSIR-CSMCRI** January 7-9, 2015	No	corresponding Author	National
20	A poster entitled "Modification McMillan catalyst with ionic liquid as a recoverable catalyst for asymmetric Diels Alder	**21st ISCB International Conference** at CDRI, Lucknow, on February 25-28, 2015.	No	Corresponding Author	International

	reaction"				
21	A poster entitled (S)-pyrrolidine Containing Chiral Mn(III) Salalen and Salan complexes as Catalysts for the Asymmetric Nitro-Aldol Reaction	**21st ISCB International Conference** at CDRI, Lucknow, on February 25-28, 2015.	No	Corresponding Author	International
22	A poster entitled "C_1-Symmetric in situ generated Cu(II) Salalen and Salan complexes: Efficient Catalysts for Asymmetric Henry Reaction	**21st ISCB International Conference** at CDRI, Lucknow, on February 25-28, 2015.	No	Corresponding Author	International
23	An oral presentation entitled "Development of Recoverable Organo Catalyst for Asymmetric Diels-Alder Reaction",	National Conference on Frontiers at the Chemistry-Allied Science Interface **(FCASI)** held at **Rajasthan University,Jaipur ,** March 13-14, 2015	No	corresponding Author	National
24	A poster entitled "Synthesis of 4-hydroxy-(L)-prolinamide as efficient catalyst for the asymmetric direct aldol reaction"	National Conference on Frontiers at the Chemistry-Allied Science Interface **(FCASI)** held at **Rajasthan University. Jaipur ,** March 13-14, 2015	No	corresponding Author	National
25	A poster entitled "N-Arylprolinamide act as a organocatalyst for direct asymmetric aldol reaction of acetone with Isatin"	National Conference on Recent Advancement in Chemical Sciences (RAICS 2015) held at **MNIT, Jaipur, August 21st-23rd, 2015**	No	corresponding Author	National
26	An oral presentation entitled " Synthesis of salan and salalen ligands and their Mn(III) and Cu(II) complexes derived from (L)-proline for asymmetric Henry reaction"	National Conference on Recent Advancement in Chemical Sciences (RAICS 2015) held at **MNIT, Jaipur, August 21st-23rd, 2015**	No	corresponding Author	National
27	An oral presentation entitled " Prolinamide derived from (S)-	National Conference on Chirality (NCC 2015) 18-	No	Corresponding Author	National

		a-methylphenyl amine act as an efficient catalyst for asymmetric aldol reaction"	19 December, **Department of Chemistry, M. S. University Baroda,** Vadodara, Gujarat			
	28	MacMillan's Catalyst Modified with Ethanolamine and Its Application in Asymmetric Diels-Alder Reaction	International Conference on Current Challenges in Drug Discovery Research CCDDR 2015 held at **MNIT, Jaipur, Nov 23-25, 2015**	No	Corresponding Author	International
	29	Methanolysis of Epoxides with Alcohols Catalysed by DABCO Salts at Ambient Conditions	International Conference on Current Challenges in Drug Discovery Research CCDDR 2015 held at **MNIT, Jaipur, Nov 23-25, 2015**	No	Corresponding Author	International
	30	Ionic Liquid of trans-4-hidroxy-(L)-prolinamide with Imidazole as Efficient Recoverable Organocatalyst for Direct Asymmetric Aldol Reaction	DU-JAIST Indo-Japan Symposim on Chemistry of Functional Molecules/Materials, **26-27, Feb 2016 at University of Delhi, Delhi**	No	Corresponding Author	International
	Invited Lectures					
1		Chemistry in our Lives	On International Year of Chemistry at Fakir Mohan Autonomous College, Balasore-Orissa on 24/08/2011	State		Sole
2		Stereochemistry of Organic Compounds	Resource person in a UGC-Refresher Course 2013 at Jamia Millia Islamia University, Delhi	National		Sole
3		Ring opening of epoxides with nitrogen, carbon and oxygen as nucleophiles and its applications in synthesis of biologically important molecules	National Seminar on Current Trends in Chemical Sciences, July 12-13, 2014 Dept. of Chemistry St. Andrew's College, Gorakhpur	National		Corresponding
4		Development of	International Conference on	International		Sole

	Organocatalysts for Asymmetric organic transformation	Current Challenges in Drug Discovery Research, Dept. of Chem., MNIT, Jaipur	
5	Development of Organocatalyst for asymmetric organic transformations	National Conference on Chirality National (NCC 2015) 18-19 December, Department of Chemistry, M. S. University Baroda, Vadodara, Gujarat	Sole

Research Projects (Major Grants/Research Collaboration)

1. DU-DST PURSE Grant of 3.8 Lac INR
2. R&D Grant from Delhi university 2.5 Lac INR for year 2010-2011
3. R&D Grant from Delhi university 2.5 Lac INR for year 2011-2012
4. R&D Grant from Delhi university 2.5 Lac INR for year 2012-2013
5. R&D Grant from Delhi university 2.8 Lac INR for year 2013-2014
6. R&D Grant from Delhi university 3.0 Lac INR for year 2014-2015
7. DU-DST PURSE Grant of 2.21 Lac INR for year 2015-16
8. Research project completed sponsored by Reliance Industry Limited (RIL), 20.5 Lac INR for one year and six month duration
9. Research Project completed sponsored by DST "Fast track Young Scientist" 27.0 Lac INR for three year duration (2013-2016)
10. Research Project completed sponsored by CSIR-EMR, 18.4 Lac INR for three year duration (2013-2016)
11. Research Project on-going sponsored by SERB-DST, 35.5 Lac INR for three year duration (2017-2020)
12.

Awards and Distinctions

1. **CSIR-JRF in 2001**
2. **Irish Research Council of Science, Engineering and Technology (IRCSET) post-doctoral fellowship 2006**
3. **Best paper presentation Award TAGRSM-2003**

Association With Professional Bodies

1. *Editing*
2. *Reviewing: RSC Advances, Catalysis Science Technology,*
3. *Advisory*
4. *Committees and Boards*
   Organic Group section convener 2016-17
   Member of Departmental Research Committee 2014-2016
   Member of Departmental seminar committee 2015- to till date
   Member of committee constituted to combat Holi hooliganism2015
   Member of committee constituted to combat Holi hooliganism2016
   Member of Departmental Purchase committee 2015-till date
   Member of various technical committees for procurement of equipment in Department
5. *Memberships*
   Chemical Research Society of India (CRSI)
   Indian Society of Chemist and Biologists (ISCB)
6. *Office Bearer*

Other Activities

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.