



Address for Communication

Dr. Vinod K. Tiwari, FRSC

Professor, Organic Chemistry
Department of Chemistry
Institute of Science
Banaras Hindu University
Varanasi-221005, INDIA

Vinod.Tiwari@bhu.ac.in

Tiwari_Chem@yahoo.co.in

TEL:91-9451896061

http://www.bhu.ac.in/chemistry/vk_tiwari.html

Twitter:@VinodKTiwari6

NATIONALITY: INDIAN

Date of Birth: 03-01-1976

RESEARCH INTEREST:

Organic Synthesis and
Carbohydrate Chemistry
ORCID: 0000-0001-9244-8889

Present Position:

Professor, BHU (Permanent)
Secretary, ACCT(I), 2022-cont
Council Member, CRSI (2023-
Convenor, CRSI Local Chapter

Editor/Guest Editor:

1. *BVAAP* (CSIR-NISCP, INDIA)
2. *SYNTHESIS* (Germany)
3. *SYNLETT* (Germany)
4. *ARKIVOC* (Gainesville, USA)
5. *Trends Carbohydr. Res.*
6. *Current Organic Chemistry*
7. *Current Organic Synthesis*
8. *Journal of Chemistry (Wiley)*
9. *Molecules* (Switzerland)
10. *Scientific Reports* (Nature)
11. *Ind. J. Het. Chem.*
12. *J. Carbohydrate Chemistry*
13. *Carbohydrate Research*

EDUCATION

1999-2004	Ph.D. Medicinal Chemistry	CSIR-CDRI (awarded from JNU) Mentor: Dr R P Tripathi , CDRI
1996-1998	M.Sc. Organic Chemistry	Department of Chemistry, Banaras Hindu University

PROFESSIONAL EXPERIENCE

11/2020 --	Professor	Chemistry, Banaras Hindu University
2009-2010	Guest Scientist	Universitat Konstanz, Germany Mentor: Prof. Richard R Schmidt
2007-2008	Visiting Fellow	University of California-Davis, USA Mentor: Prof. Xi Chen
2005-2017	Assistant Professor	Department of Chemistry, Banaras Hindu University, Varanasi, India
2005-2005	Postdoctoral Fellow	University of Florida, Gainesville, USA Mentor: Prof. Alan R Katritzky
2004-2005	Lecturer	Bundelkhand University Jhansi, India

RESEARCH CONTRIBUTION

No. of Publications: 192 (*h*-index: 48, Citation: 10025, IF: 770)
Patents : 8
Book chapter : 26
Book : 6
Invited Lectures : 350 (India, USA, UK, Germany, China, Sri Lanka)
PhD supervised : 17 (5 are working at present)
Research Project : 11 completed

AWARDS & HONOURS (SELECTED LIST)

1. Listed in Top 2% Scientist Ranking for the Years 2021, 2022, 2023, & 2024
2. Chemical Research Society of India (CRSI), Bronze Medal for the Year 2021
3. Prof. S P Hiremath Award-2024, Indian Council of Chemists
4. Council Member, CRSI (2023-2026); Hon. Secretary, ACCT(I) (2022-2026)
5. C G Merchant Memorial Award-2022 for contribution to Click Chemistry
6. Most Productive Researcher Award-2019, Banaras Hindu University
7. Excellence in Carbohydrate Research Award-2019, ACCT(I)
8. Dr S S Deshpande Award-2016 for High Impact Contribution in Chemistry
9. 1st Prof N Roy Award for Excellence in Carbohydrate Chemistry-2015
10. Prof. A. S. R. Anjaneyulu 60th Birthday Commemoration Award-2014
11. Chemical Research Society of India, Young Scientist Award-2012
12. Dr. Ghanashyam Srivastava Medal-2012, Indian Chemical Society
13. 1st Dr. H C Srivastava Award-2012, ACCT(I)
14. Prof. R C Shah Memorial Lecture Award-2011 (ISCA)
15. Dr. Arvind Kumar Memorial Award-2010, Indian Council of Chemist
16. Young Scientist Award-2010, U.P. Council of Science & Technology
17. Young Investigator Prize-ICRABTS 2004 (Offered for the Lecturer, BU)
18. Dr. D. S. Bhakuni Award-2004, Indian Chemical Society
19. Fellow, Royal Society of Chemistry (FRSC, 2023)
20. Qualified NET-CSIR-UGC, SET-Maharashtra, NET-ARS, GATE, etc.

Representative Selected Publications (Published: **192**, *h-index*: **48**; Citations: **10025**; *i₁₀* index: **136**; IF: **750**):

1. A Mishra, **V K Tiwari***, One-pot Synthesis of Glycosyl- β -Azidoester *via* Diazotransfer reaction towards an easy access of Glycosyl- β -Triazolyl Ester, *J. Org. Chem.*, **2015**, *80*, 4869 - 4881.
2. K B Mishra, **V K Tiwari***, Click Chemistry Inspired Synthesis of Diverse Morpholine-fused Triazoles, *J. Org. Chem.*, **2014**, *79*, 5752-5762.
3. D Kumar, B B Mishra, **V K Tiwari***, Synthesis of 2-*N/S/C*-substituted Benzothiazoles *via* Intramolecular Cyclative Cleavage of Benzotriazole Ring, *J. Org. Chem.*, **2014**, *79*, 251-265.
4. D Kumar, A Mishra, BB Mishra, S Bhattacharya, **V K Tiwari***, Synthesis of Glycoconjugate Benzothiazoles *via* Cleavage of Benzotriazole Ring, *J. Org. Chem.*, **2013**, *78*, 899-909.
5. V Prasad, R R Kale, B B Mishra, D Kumar, **V K Tiwari***, Diacetoxyiodobenzene Mediated One-Pot Synthesis of Diverse Carboxamides from Aldehydes, *Org. Lett.*, **2012**, *14*, 2936-2939.
6. D. Kushwaha, **V. K. Tiwari***, Click Chemistry Inspired Synthesis of Porphyrin Glycodendrimers, *J. Org. Chem.*, **2013**, *78*, 8184-8190.
7. H Yu, J Cheng, L Ding, Z Khedri, Y Chen, K Lau, **V K Tiwari**, X Chen, Chemoenzymatic Synthesis of GD3 Oligosaccharides and other Disialyl Glycans containing Natural and non-natural Sialic Acids. *J. Am. Chem. Soc.*, **2009**, *131*, 18467-18477.
8. N. Mishra, A. S. Singh; A. K. Agrahari; S. Singh; M. Singh, **V. K. Tiwari***, Synthesis of Benz-Fused Azoles *via* C-Heteroatom Coupling Reactions Catalyzed by Cu(I) in the Presence of Glycosyltriazole Ligands, *ACS Combinatorial Science*, **2019**, *21*(5), 389-399.
9. **V. K. Tiwari***, B. B. Mishra, K. B. Mishra, N. Mishra, A. S. Singh, X. Chen, Cu(I)-Catalyzed Click Reaction in Carbohydrate Chemistry, *Chem. Rev.*, **2016**, *116*, 3086-3240.
10. **Tiwari, V. K.** et al., Cu(I)-catalyzed Click Chemistry in Glycoscience and their Applications. *Chem. Rev.*, **2021**, *121*, 7638-7956 (**Invited article for thematic issue**).
11. **V. K. Tiwari***, Development of Biologically Relevant Glycohybrid Molecules: Twenty Years of Our Journey, *Chem. Rec.*, **2021**, *21*, 3029-3048(**Invited article, Recent Advances in Carbohydrate Chemistry**).
12. N. Mishra, S. K. Singh, A. K. Agrahari, A. S. Singh, **V. K. Tiwari***, Glycosyl Triazole ligand for Temperature-Dependent Competitive Reactions of Cu-catalyzed Sonogashira coupling and Glaser Coupling, *J. Org. Chem.*, **2021**, *87*, 17884-17895.
13. S K Singh, S Kumar, M S Yadav, **V. K. Tiwari***, Pyridyl Glycosyl Triazole/CuI-Mediated Domino/Tandem Synthesis of Quinazolinones, *J. Org. Chem.*, **2022**, *87*, 15389-15402.
14. S. K. Singh, S. Kumar, M. S. Yadav, A. Gupta, **V. K. Tiwari***, Triazole-appended Glycohybrid/ CuI Catalyzed C-C Cross-Coupling of Aryl/ Hetero Aryl Halides with Alkynyl Sugars, *J. Org. Chem.*, **2023**, *89*, 13440-13453.
15. M. K. Jaiswal, A. Gupta, M. S. Yadav, V. K. Pandey, **V. K. Tiwari***, Organocatalyzed Regioselective Synthesis of 1,5-Disubstituted 1,2,3-Triazolyl Glycoconjugates, *Chem. Eur. J.*, **2023**, *29*, e202301749.
16. HFIP-Mediated Synthesis of 4-Aryl-NH-1,2,3-Triazoles and 1,5-Disubstituted 1,2,3-Triazolyl Glycoconjugates MK Jaiswal, MS Yadav, S Maurya, D Ansari, **V. K. Tiwari***, *J. Org. Chem.*, **2024**, *89*, 17213-17227.
17. M. K. Jaiswal, M. K. Yadav, M. Singh, S. Garai, **V. K. Tiwari***, Silicomolybdic Acid Cluster as Biocompatible Catalyst for One-Pot Tandem Synthesis of Orthogonally Protected Glycosides, *J. Org. Chem.*, **2024**, *89*, 10698-10708.
18. M S Yadav, V K Pandey, M K Jaiswal, S K Singh, A Sharma, M Singh, **V K Tiwari***, Late-Stage Functionalization Strategies of 1,2,3-Triazoles: A Post-Click Approach in Organic Synthesis. *J. Org. Chem.*, **2025**, *90*, 5731-5762.
19. D. Ahmad, MK Jaiswal, MS Yadav, VK Pandey, M Singh, **V. K. Tiwari***, Biocompatible Silicomolybdic Acid Promoted One-Pot Expeditious Synthesis of 1,2,3-NH-Triazoles. *Org. Biomol. Chem.*, **2025**, 4045-4057.
20. M S Yadav, M K Jaiswal, S Kumar, S K Singh, S Garai, **V K Tiwari***, Substrate-Dependent Stereoselective Synthesis of Pyrrolo[3,4-*b*]pyridin-5-ones and Pyridyl-isindoline-1-ones using bis(benzo triazol-1-yl) Ligand, *Chem. Asian J.*, **2025**, e202401301 (**Invited paper as part of celebration of 25 Year of CRSI**).
21. G. Negi, V.K. Pandey, P. S. Potharaju, M. K. Jaiswal, K. H. Harshan, **V. K. Tiwari***, N. Parveen,* SARS-CoV-2 Evolved Variants Bind to Sialylated Gangliosides and Inhibited by Tetravalent Sialo-Glycocluster, *ACS Infectious Disease*, **2025**, in press. doi.org/10.1021/acsfeddis.5c00
22. V.K. Pandey, M K Jaiswal, M S Yadav, D Ansari, S Maurya, Copper(I)-Catalyzed Tandem One-Pot Synthesis of Bis(1,2,3-triazoles) and Tetrakis (1,2,3-triazole) Glycoconjugates, *Eur. J. Org. Chem.*, **2025**, e202500491.