

Curriculum Vitae

Dr. Vijay Kumar Vishvakarma

Father's name: - Vinod Kumar Vishvakarma

Mother's name: - Radhika Devi

DOB: - 02/05/1987



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Career Objectives

- ✚ My target is to achieve a high position in the academic/ administration/ industrial system to explore my qualities for the growth of the system.

Teaching Assignment

- ✚ Serving as **Assistant Professor (Probation basis)** in **SRM Institute of Science & Technology** form 07 August 2023 – Till date.
- ✚ Served as **Assistant Professor (contractual basis)** in **SRM Institute of Science & Technology** form 23 March 2022 – 10 July 2022.
- ✚ Served as **Assistant Professor (contractual basis)** in **SRM Institute of Science & Technology** form 1 May 2021 – 15 August 2021.
- ✚ Served as **Assistant Professor (guest)** in **Shyam Lal College**, University of Delhi from 1 March 2020 – 15 May 2020.
- ✚ Served as **Assistant Professor (guest)** in **Maitreyi College**, University of Delhi from 7 Jan 2020 – 29 Feb 2020.
- ✚ Served as **Assistant Professor (guest)** in **Acharya Narendra Dev College**, University of Delhi from 7 Jan 2019 – 14 March 2019.

Academic Profile

- ✚ **Ph. D.** (Computational Chemistry, Organic Chemistry Bioinformatics) from the University of Delhi under supervision of **Prof. Prashant Singh** in **2021**.
- ✚ **M. Sc.** in Applied Chemistry from Department of Applied Chemistry, Baba Saheb Bhimrao Ambedkar University, Lucknow in **2012** with FGPA-7.5 on 10 scales (**75%**).
- ✚ **B. Sc.** In Chemistry, Botany from Udai Pratap College, U.P. (V.B.S.P. University of Jaunpur, U.P.) in 2008 with 1st Division (**61.33 %**).

✚ **Intermediate** in PCB from Udai Pratap Intermediate College Varanasi, U.P. in **2005** with 1st Division (**64 %**).

✚ **High school** in Science group from SMK intermediate college, Gajadharpur, Burhanpur, Ghazipur U.P. in **2003** with 1st Division (**60 %**).

INDEX	GOOGLE	SCOPUS	WEB OF SCIENCES
CITATIONS	378	138	108
H-INDEX	13	7	7
I10-INDEX	15		

✚ **Orchid ID-** 0000-0003-0466-1538; **Web of Science ID:** GQQ-4837-2022

✚ **Researchgate profile:** <https://www.researchgate.net/profile/Vijay-Vishvakarma>

✚ **LinkedIn profile:** <https://www.linkedin.com/in/dr-vijay-vishvakarma-a0644365>

✚ **Native language:** Hindi

✚ **Other language known:** English

Research Work

✚ Worked as project fellow on Novel routes for the synthesis of thiazolidinediones and their derivatives on their physical and chemical properties under a research project funded by DST with **Prof. Prashant Singh** Department of Chemistry, Atma Ram Sanatan Dharma College New Delhi 110021 from **19 September 2013- 31 October 2014**.

Achievements

✚ Qualified **GATE 2016**.

✚ Qualified **CSIR UGC-NET (LS)** in **2017**.

✚ Member of International Association of Engineers (IAENG), member no. 122243.

✚ Member of World Society Interdisciplinary Anti-Aging Medicine (WOSIAM).

Qualification Highlights

- Organic synthesis, Nucleic acid chemistry, Carbohydrate Chemistry, Asymmetric synthesis, Heterocyclic chemistry- experience in nanomaterial synthesis.
- Structure elucidation and characterization by UV, IR, NMR (¹H NMR and ¹³C NMR, and Biophysical techniques; TG-DTA.DSC, Powder XRD, SEM, TEM, DLS.

Computes Skills

✚ Microsoft Office, etc.

✚ Software like ChemDraw, Spartan, Molegro Molecular Viewer, Accelrys, iGEMDOCK, Gromacs, VMD, Gaussian, NAMD, g_mmpbsa, Discovery Studio, etc.

Articles published/ revision

1. A. P. S. Raman, M. B. Singh, **V. K. Vishvakarma**, P. Jain, A. Kumar, S. Sachdeva, K. Kumari, P. Singh, An investigation for the interaction of gamma oryzanol with the Mpro of SARS-CoV2 to combat COVID-19: DFT, molecular docking, ADME and molecular dynamics simulations. *Journal of Biomolecular Structure and Dynamics*. **2023**, 14, 1919-1929. (IF-3.39)
2. M Yadava, K Lal, A. Kumar, P. Singh, **V. K. Vishvakarma**, R. Chandra, Click reaction inspired synthesis, antimicrobial evaluation and in silico docking of some pyrrole-chalcone linked 1,2,3-triazole hybrids. *J. Mol Struct.* **2023**, 1273, 134321. (IF-3.196)
3. P Jain, **V. K. Vishvakarma**, P. Singh, S. Chandra, D. Kumar, N. Misra, Co(II) and Ni(II) complexes of a heterocyclic ligand: Synthesis, characterization, docking and biological activity. *Iran J Sci Technol Trans Sci.* **2022**, 46, 793–805. (IF- 1.553)
4. **V. K. Vishvakarma**, M. B. Singh, P. Jain, K. Kumari, P. Singh, Hunting the main protease of SARS-CoV-2 by plitidepsin: Molecular docking and temperature-dependent molecular dynamics simulations. *Amino Acids.* **2022**, 54, 205–213. (IF-3.520)
5. **V. K. Vishvakarma**, S. Pal, P. Singh, I. Bahadur, Interactions between main protease of SARS-CoV-2 and testosterone or progesterone using computational approach. *Journal of Molecular Structure.* **2022**, 1251, 131965. (IF-3.196)
6. A. P. S. Raman, K. Kumari, P. Jain, **V. K. Vishvakarma**, A. Kumar, N. Kaushik, E. H. Choi, N. K. Kaushik, P. Singh, *In silico* Evaluation of binding of 2-Deoxy-D-Glucose with Mpro of nCoV to combat COVID-19. *Pharmaceutics.* **2022**, 14, 135. (IF-6.321)
7. **V. K. Vishvakarma**, B. N. Pant, V. Kumar, K. Kumari, I. Bahadur, P. Singh, Xanthene based hybrid analogues to inhibit protease of novel corona Virus: Molecular docking and ADMET studies. *Computational Toxicology.* **2020**, 16, 100140. (IF-)
8. D. Kumar, K. Kumari, **V. K. Vishvakarma**, A. Jayaraj, D. Kumar, V. K. Ramappa, R. Patel, V. Kumar, S. K. Dass, R. Chandra, P. Singh, Promising inhibitors of main protease of novel corona virus to prevent the spread of COVID-19 using docking and molecular dynamics simulation. *Journal of Biomolecular Structure and Dynamics.* **2020**. (IF-3.39)
9. R. V. Kumar, D. Srivastava, V. Singh, U. Kumar, **V. K. Vishvakarma**, P. Singh., D. Kumar, R. Kumar, Characterization, biological evaluation and molecular docking of mulberry fruit pectin. *Scientific Reports.* **2020**, 10, 21789. (IF-3.998)

10. **V. K. Vishvakarma**, Prashant Singh and K. Kumari, A model to study the inhibition of arginase ii with noscapine & its derivatives. *J Protein Res Bioinform.* **2020**, 2, 008. (IF-)
11. P. Singh, Durgesh Kumar, **Vijay Kumar Vishvakarma**, Parul Yadav, Abhilash Jayaraj, K. Kumari, Computational approach to study the synthesis of noscapine and potential of stereoisomers against nsP3 protease of CHIKV. *Heliyon.* **2019**, 5(12), e02795. (IF-)
12. **V. K. Vishvakarma**, P. Singh, V. Kumar, K. Kumari, R. Patel, Pyrrolothiazolones as potential inhibitors for the nsP2B-nsP3 protease of dengue virus and their mechanism of synthesis. *Chemirtypelect.* **2019**, 4(32), 9410-9419. (IF-2.307)
13. **V. K. Vishvakarma**, N. Shukla, Reetu, K. Kumari, R. Patel, P. Singh, A model to study the inhibition of nsP2B-nsP3 protease of dengue virus with imidazole, oxazole, triazole thiadiazole, and thiazolidine based scaffolds. *Heliyon.* **2019**, 5, e02124. (IF-)
14. **V. K. Vishvakarma**, P. Singh, K. Kumari, R. Chandra, Rational design of threo as well erythro noscapines, an anticancer drug: A molecular docking and molecular dynamic approach. *Biochemistry & Pharmacology.* **2017**, 6(3) 1-7. (IF-)
15. **V. K. Vishvakarma**, R. Patel, K. Kumari, P. Singh, Interaction between bovine serum albumin and gemini surfactants using molecular docking characterization. *Information Science Letters.* **2017**, 6(3), 33-38. (IF-)
16. P. Singh, **V. K. Vishvakarma**, B. Pant, S. Yadav, Mohd. Aslam, J. Yadav, A. Yadav, K. Kumari, R. Patel, R. Chandra, Computational docking studies of Noscapines: A potential bioactive agent. *American Journal of Pharmacology and Pharmacotherapeutics.* **2017**, 4, 09-19. (IF-)
17. **V. K. Vishvakarma**, K. Kumari, R. Patel, Prashant Singh, G. K. Mehrotra, R. Chandra, A. K. Chakrawarti, Theoretical model to investigate the alkyl chain and anion dependent interaction of Gemini surfactant with bovine serum albumin. *Spectrochimica Acta A.* **2015**, 143, 319-323. (IF-4.098)
18. **V. K. Vishvakarma**, P. Singh, M. Dubey, K. Kumari, N. D. Pandey, Quantitative structure-activity relationship analysis of thiazolidineones: potent antidiabetic compounds. *Dug metab. & drug interaction.* **2013**, 1-17. (IF-)
19. P. Singh, K. Kumari, M. Dubey, **V. K. Vishvakarma**, N. D. Pandey, R. Chandra, G. K. Mehrotra, Ionic liquid catalyzed synthesis of 7-Phenyl-1,4,6,7-tetrahydro-thiazolo[5,4-d] pyrimidine-2,5-diones. *Competes Rendus-Chimie.* **2012**, 15, 504-510. (IF-2.223)

Chapter

1. P. Singh, K. Kumari, **V. K. Vishvakarma**, S. Aggarwal, R. Patel, A. Yadav., *Nanotechnology and its impact on Insects in Agriculture* in Trends in Insect Molecular Biology: Contemporary Molecular Research on Insects and the editor is Dhiraj Kumar & Chengliang Gong. **2018**, Chapter 17, 353-378.
2. P. Singh, K. Kumari, **V. K. Vishvakarma**, G. K. Mehrotra, D. Kumar, V. Sahare, R. Chandra., *Metal NPs (Au, Ag, and Cu): Synthesis, stabilization, and their role in green chemistry and drug delivery* in Green Technologies and Environmental Sustainability R. Singh and S. Kumar (Eds). **2017**, Chapter 14, 309-337.
3. **V. K. Vishvakarma**, K. Kumari, R. Patel, Prashant Singh, G. K. Mehrotra, R. Chandra., *Gelatin nanocomposites (GNCs): An efficient drug delivery system* in Biomedical Application of Natural Proteins: An Emerging Era in Biomedical Sciences edited by Dhiraj Kumar & Rajesh R. Kundapur, Published by Springer **2015**, Chapter 10, 129-148.

Review

1. **V. K. Vishvakarma**, R. Chandra and P. Singh, An experimental and theoretical approach to understand fever, DENF & its cure. *Infectious Disorders - Drug Targets*. **2020**, 20(6), 1-20.
2. K. Kumari, **V. K. Vishvakarma**, Prashant Singh, G. K. Mehrotra, R. Chandra, Microwave: An important and efficient tool for the synthesis of biological potent organic compounds. *Current Medicinal Chemistry*. **2017**, 24(41), 4579-459.
3. K. Kumari, **V. K. Vishvakarma**, P. Singh, R. Chandra, Md. Athar, D. Kumar., Sulphonylurea, Metformin, TZDs: Potential drugs to cure Diabetes. *International Journal of Advanced Biomedicine*. **2017**, 1, 25-31.

Book published

1. QS(A/P)R based prediction of biological potent thiazolones by **V. K. Vishvakarma**, Prashant Singh., *LAP Lambert Academic Publishing*. **2012**. (ISBN-10: 3659132365, ISBN-13: 978-3659132360)

Oral/ Posters presented in the national/ international conference

1. Madhur Babu Singh, **Vijay Kumar Vishvakarma**, Aditya Aryan Lal, R. Chandra, Pallavi Jain, Prashant Singh, A Comparative Study of 5-Fluorouracil, Doxorubicin, Methotrexate, Paclitaxel for their inhibition ability for Mpro of nCoV: Molecular docking and molecular dynamics simulations, at *Recent advances in nano medical sciences (RANMS-2022)* in Institute of nano-medical sciences New Delhi. (Poster)

2. **V. K. Vishvakarma**, A model to study the arginase II inhibition on interaction with Noscapine to prevent nitrate tolerance. *National conference on recent frontiers in chemistry (NCRFC-2018)* in HNB Garhwal University, Srinagar Uttarakhand. (Oral)
3. **V. K. Vishvakarma**, D. Kumar and P. Singh, A theoretical approach to study the potential of erythro noscapine against chikungunya virus by at *National Science Day 2018* at INSA Delhi. (Poster)
4. **V. K. Vishvakarma** and P. Singh, Rational design of Threo as well as Erythro Noscapine as anticancer drug: a molecular docking and molecular dynamic approach at *National conference on Recent advances in chemical sciences towards green & sustainable environment: Swachh Bharat Abhiyan Perspective (2017)* at Adjiti Mahavidhalaya, University of Delhi. (Poster)
5. **Vijay Kumar Vishvakarma**, Prashant Singh and R. Patel, Poster presentation on Au/Ag NPS decorated PANI for electrochemical and biomedical applications. *BIOPHYSIKA 2017*, CIRBS in Jamia Millia Islamia, New Delhi. (Poster)
6. K. kumari, **V. K. Vishvakarma**, R. Patel, P. Singh, G. K. Mehrotra. Theoretical model to investigate the alkyl chain and anion dependent interaction of gemini surfactant with bovine serum albumin. *First International conference on Emerging Trends of Nanotechnology in drug discovery (INDD-2014)*, Sri Venkateswara College, Delhi University. (Poster)

Participation in national/ international conferences/ workshop

- 1 Participated in One day workshop on archival sciences (2018) at Atma Ram Sanatan Dharma College, University of Delhi.
- 2 Participated in Workshop on Molecular modeling (2018) at Atma Ram Sanatan Dharma College, University of Delhi.
- 3 Participated in National Symposium on Trends in research and innovation in life sciences at undergraduate level (2016) at DDU College, Delhi University.
- 4 Participated in International conference on Radiation environment-assessment measurement and its impact (RADENVIRON-2012) at Babasaheb bhimrao ambedkar University Lucknow.