# Dr. Vishal Srivastava

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#### Academic Experience

- Assistant Professor C.M.P. Degree College, University of Allahabad, Prayagraj, U.P., India, from 2018 to till now.
- Assistant Professor United College of Engineering & Management, Prayagraj, U.P., India, from 2015 to 2018.

#### **Academic Qualification**

- **4** D. Phil. (Chemistry) from University of Allahabad, Allahabad, U.P. INDIA. 2011
- M.Sc. 1st Class (Organic Chemistry) from University of Allahabad, Allahabad, U.P. INDIA. 2003
- **B.Sc. 1st Class** from University of Allahabad, Allahabad, U.P. INDIA. 2001
- Intermediate 1st Class from Colonelganj Inter College, Allahabad, U.P.Board U.P. INDIA.1998.
- High School 1st Class from Colonelganj Inter College, Allahabad, U.P.Board U.P. INDIA.1996.

#### **Professional Membership**

- Life member of Indian Science Congress Association.
- ♣ Member of National NMR Association.
- **4** Executive Editor, Advanced Scientific Research
- **4** Treasurer, Emerging Science Society
- 🖊 Member, Vigyaan parishad, Prayagraj
- 🖊 Member, AUCCTA

## **Research Project**

UGC Startup Grant Project titled "Photocatalysed synthesis of novel heterocyclic compounds as potential anti-viral agents." (2019)

## **Research Guidance**

**4** 05 Research Scholars are enrolled for their Ph.D. Degree.

## **P.G. Dissertation Work**

**4** 08 P.G. Students have completed their dissertation work.

## **Awards/ Honours**

- **4** Young Scientist Associate Award by *Bioved Research Society*, February, 2018.
- **4** Academic Excellence Award by United Group of Institutions, April, 2017.
- First prize for poster presentation in National Seminar on "*Future India: Science and Technology*" organized by Allahabad Chapter of Indian Science Congress Association, 22<sup>nd</sup>-24<sup>th</sup>February, 2019.

## **Professional Development activities**

- Organizing Secretary in the Invited lecture program on "Nanomaterials and Green Energy" on 20<sup>th</sup> April, 2023, organised by Department of Chemistry, C.M.P. Degree College, University of Allahabad, Prayagraj.
- Participated as Resource Person in one week "NAAC Orientation Workshop" from 9th-13<sup>th</sup> January, 2023, organised by IQAC and NAAC Committee, C.M.P. Degree College, University of Allahabad, Prayagraj.
- Organizing Secretary in the program on "National Pollution Control Day" on 2nd December, 2022, organised by Department of Chemistry, C.M.P. Degree College, University of Allahabad, Prayagraj.
- Organizing Secretary in online quiz on "International Chemistry Week on 13th November, 2022, organised by Department of Chemistry, C.M.P. Degree College, University of Allahabad, Prayagraj.
- Coordinator in National Seminar on the occasion of World Ozone Day "Save Ozone Layer: Save Life" jointly organized by Departments of Chemistry, Botany, Zoology and Physics, C.M.P. Degree College, Prayagraj on 16<sup>th</sup> September, 2022.

- Invited as a Judge in Poster Competition Theme : "Ecological Restoration" on 6<sup>th</sup> May, 2022, organised by Department of Zoology, C.M.P. College, Prayagraj.
- Organizing Secretary in National Seminar on "Environment Conservation & Sustainable Development" on 24<sup>th</sup> April, 2022, organised by P.G. Department, C.M.P. Degree College, University of Allahabad, Prayagraj.
- Invited as a Judge in Poster competition of Program "Vigyan sarvatra pujyate" on the occasion of 75 Years of Independence on 24<sup>th</sup> February, 2022, sponsored by Department of Science & Technology and organized by Vigyan Parishad, Prayagraj.
- Organizing Secretary in "DBT Fest: Vigyan Sangam" under the aegis of DBT Star College Scheme, from 17<sup>th</sup>-20<sup>th</sup> January, 2022, organised by Departments of Chemistry, Botany, Zoology and Physics, C.M.P. Degree College, University of Allahabad, Prayagraj.
- Organizing Secretary in National webinar on "Chemistry: Prospects and Opportunity for Everyday Life" from 5<sup>th</sup>-6<sup>th</sup> December, 2021, organised by Department of Chemistry, C.M.P. Degree College, University of Allahabad, Prayagraj under the aegis of DBT Star College Scheme.
- Organizing Secretary in Invited E-lecture on "Application of Chemistry in Advance Technology" on 4<sup>th</sup> December, 2021, organised by Department of Chemistry, C.M.P. Degree College, University of Allahabad, Prayagraj under the aegis of DBT Star College Scheme.
- Invited as a Judge in Poster presentation on 1<sup>st</sup> December, 2021, on the occasion of 150th Foundation Day of Kayastha Pathshala Trust, organised by Department of Chemistry, K.A.P.G. College, Prayagraj.
- Participated in the online UGC sponsored "Five days workshop on NAAC" from 23<sup>rd</sup> 27<sup>th</sup> August, 2021 organized by UGC-Human Resource Development Centre, University of Allahabad.
- Participated in Online Training Programme on the theme "Teaching Effectively" organized by CALEM, at the UGC HRDC, Aligarh Muslim University, Aligarh from 24<sup>th</sup> March 2021 to 31<sup>st</sup> March, 2021.
- Organizing Secretary in Inter-disciplinary Faculty Development Program on "Bioinformatics and Computational Biology: Introduction and Approaches" from 9<sup>th</sup>-15<sup>th</sup> December, 2020, jointly organized by Departments of Botany, Zoology and Chemistry, C.M.P. Degree College, University of Allahabad, Prayagraj.

- Participated in one-week online Faculty Development Program on "Management of online teaching and learning system with MOOCs" from 17<sup>th</sup> -21<sup>st</sup> August, 2020, organised by Teaching Learning Centre, Indian Institute of Technology (BHU), Varanasi.
- Joint Secretary of online quiz on "*Empower Your Knowledge in Organic Chemistry: Question Bank 02*", organized by Department of Chemistry, CMP Degree College, Prayagraj from 2<sup>nd</sup> August to 12<sup>th</sup> August 2020.
- Participated in 5 days online Faculty Development Program on "*The Role of Advanced Materials & Nanotechnology in Present Scenario*" from 22<sup>nd</sup> 26<sup>th</sup> June, 2020, organised by Vemana Institute of Technology, Bengaluru in association with Royal Society of Chemistry, London.
- Coordinator in National webinar on "Insights into Fundamentals of Chemistry" on 18<sup>th</sup>-20<sup>th</sup> June, 2020, organised by Department of Chemistry, C.M.P. Degree College, University of Allahabad, Prayagraj.
- Co-convener of online quiz on "Conservation of Environment", on the occasion of World Environment Day, jointly organized by Department of Chemistry and Library of CMP Degree College, Prayagraj on 5<sup>th</sup> June 2020.
- Invited as a Judge in the "Dr. Abdul Kalam Technical, Literary and Management Fest" at United College of Engineering and Management on 24<sup>th</sup> January, 2019.
- Invited as a Judge in "PEPS 2018-19" held at Kulbhaskar Ashram PG College on 28<sup>th</sup> February, 2019.
- Invited as a Judge in the Nodal level, National Children's Science Congress exhibition, organized by J.T. Golden Jubilee Girls Inter College on 30<sup>th</sup> August, 2019.
- Co-organizing Secretary in National Seminar entitled "Innovative Frontiers in Applied Sciences" organized by Chemical Society, CMP College, Prayagraj, September, 2019.
- Completed XXIV Refresher Course in Chemistry with A<sup>+</sup> grade, organized by Department of Chemistry, University of Allahabad, Prayagraj on 10<sup>th</sup> to 23<sup>th</sup> December, 2019.
- Completed 120<sup>th</sup> Orientation Programme of UGC-HRDC held during 25<sup>th</sup> July-21<sup>st</sup> August 2018, with A grade.
- Invited talk in National Conference on "Role of Modern Biological Sciences for enhancing farmer's economy & welfare of the society" organized by Faculty of Science, Ranvir Rananjay Post Graduate College, Amethi, (U.P.), November, 2018.

- Invited as a Judge in the "District level Children's Science, Mathematics and Environmental exhibition" organized by J.T. Girls Inter College on 01<sup>st</sup> December, 2018.
- Invited talk in one-day National Seminar on "Present Scenario of Environmental Challenges & Issues" organized by Department of Chemistry, CMP College, Prayagraj, December, 2018.

## Administrative responsibility

- Appointed Co-Convener of Purchase Committee, CMP Degree College, Prayagraj (2022)
- Appointed Co-Convener of Alumni Committee, CMP Degree College, Prayagraj (2022)
- Appointed Member of Fee & Accounts Committee, CMP Degree College, Prayagraj (2022)
- Appointed Departmental Coordinator, DBT Star College Project, CMP Degree College, Prayagraj (2021)
- Appointed Member of Admission Test Core Committee of Allahabad University Entrance Examination-2021, held at 23<sup>rd</sup> October, 2021.
- ♣ Appointed CAPIO of College (2019)
- Appointed Member of College DBT STAR Committee (2019)
- Appointed Member of College NAAC Committee (2019)
- Appointed Assistant Coordinator of College PG Committee (2018)
- 4 Appointed Treasurer of the College Alumni Association (2018)
- Appointed Member of UG Admission Committee (2018)

## Books

 Title: Modern Synthetic Strategy for Anti-viral Nucleosides Author: Vishal Srivastava, Pravin K.Singh, I. R. Siddiqui

Publisher: LAP Lambert Academic Publishing, Germany (24 March, 2012) ISBN: 978-3-8484-4668-1.

Title: Oxidation of Organic Compounds by Transition Metal Catalysis
 Author: Vishal Srivastava, Manish Srivastava, Anamika Srivastava

Publisher: LAP Lambert Academic Publishing, Germany (April, 2014) ISBN: 978-3-659-43267-5. 3. Title: Engineering Chemistry: A Text Book

Author: Vishal Srivastava, Praveen P. Singh, Sudhanshu Kanaujia

Publisher: Alpha Science International Ltd (14 March 2018) Narosa Publishing House Pvt Ltd

**ISBN:** 978-3-81-8487-616-1.

Title: Environmental Challenges & Issues in Present Scenario
 Editor: Pravin K. Singh, Abhishek Srivastava, Vishal Srivastava, Ranjeet Kumar

Publisher: Firstprint Publications, Prayagraj (December, 2019) ISBN: 978-93-88018-18-0.

Title: Energing Trends in Science and Technology(Concepts and Applications)
 Editor: I.R. Siddiqui, S.I. Rizvi, Pravin K. Singh, Vishal Srivastava

Publisher: Krishna Computer Sansthan, Prayagraj (September, 2021) ISBN: 978-81-949641-0-0.

6. Title: Recent Trends in Science and Technology Editor: Ajeet Singh, Praveen Pratap Singh, Vishal Srivastava, Pravin K. Singh,
Publisher: Krishna Computer Sansthan, Prayagraj (March, 2022) ISBN: 978-81-953793-1-6.

#### **Book Chapters**

Book chapter entitled with "Nanomaterials in Organic Synthesis" in book entitled with "Material Science: A Field of diverse Industrial Applications" published by Bentham Science Publishers Pte. Ltd., Singapore.

(2023)

**ISBN:** 978-981-5051-24-7 (Online)

978-981-5051-25-4 (Print)

Book chapter entitled with "Natural Products: Sources and their Applications in Drug Discovery" in book entitled with "Insights in Chemistry and Applied Sciences, published by First Print Publications, Prayagraj, India.

 $(\mathbf{2022})$ 

**ISBN:** 978-93-93647-07-8.

Book chapter entitled with "Nanoparticle for Drug Delivery in Cancer Treatment" in book entitled with "CHEM-WORLD" published by First Print Publications, Prayagraj, India.
 (2022)

**ISBN:** 978-93-93647-09-2.

Book chapter entitled with "Hybrid materials and their applications" in book entitled with "Versatile Solicitations of Material Science in Diverse Science Fields" published by NOVA SCIENCE PUBLISHERS, INC, USA. (2021).

**ISBN:** 978-1-53619-763-1.

- Book chapter entitled with "Sewak Robot" in book entitled with "Corona: Ek Vaishvik Mahamaari" published by Aadhunik Prakashan Grah, Prayagraj. (2021).
   ISBN: 978-81-951765-3-3.
- Book chapter entitled with "Challenges to Sustainable Safe Drinking Water: Quality of safe drinking water is decreasing at an alarming rate" in book entitled with "EARTH-II: Environmental Sustainability and Conservation" published by Krishna Computer Sansthan, Prayagraj. (2020).

**ISBN:** 978-81-949641-7-9.

- Book chapter entitled with "Antioxidant properties of mustard" in "Chem-World" Vol. IV
   & V, published by Department of Chemistry, C.M.P. Degree College, Prayagraj (2019).
- Book chapter entitled with "Green Approaches for Synthesis of Quinazolinone" in "Advances in Chemical and Applied Sciences" Vol. III, published by Chemical Society, Department of Chemistry, C.M.P. Degree College, Prayagraj (2019). ISBN: 978-93-88018-19-7.

# **Research Papers Published**

- 1. Vishal Srivastava, Surabhi Sinha, Deepak Kumar and Praveen P. Singh Neoteric chemical transformation involving gold based photocatalysis, Tetrahedron Green Chem, 2023, 1, 100009.
- Vishal Srivastava, Shraddha Tivari, Pravin K. Singh and Praveen P. Singh, Photocatalysed Synthesis and Structure Activity Evaluation of Cyclohexyloxyphenethylpyridinones as Potent HIV-1 Inhibitor, Catalysis Letters, 2023, DOI: https://doi.org/10.1007/s10562-023-04345-8 Impact factor: 2.936
- Praveen P. Singh, Jaya Singh and Vishal Srivastava, Visible-light acridinium based organophotoredox catalysis in late-stage synthetic applications, RSC Adv., 2023, 13, 10958. Impact factor: 3.90
- Mohd. Zaheeruddin Beg, Pravin K. Singh, Praveen P. Singh, Manish Srivastava and Vishal Srivastava Metal Free Visible-light Mediated Direct C-H Amination of Benzoxazole with Secondary Amines Molecular Diversity, 2023, DOI: https://doi.org/10.1007/s11030-022-10595-2 Impact factor: 3.364
- Mangla Mishra, Vishal Srivastava, Pravin K. Singh and Praveen P. Singh Visible-light driven eosin Y catalyzed C(sp2)-H functionalization/C-O bond formation for synthesis of benzoxazoles Croat. Chem. Acta, 2022, 95(1), 25-30. Impact factor: 0.659
- Satya Prakash Singh, Vishal Srivastava, Pravin K. Singh and Praveen P. Singh Visible-light induced eosin Y catalysed C(sp<sup>2</sup>)-H alkylation of carbonyl substrates via direct HAT Tetrahedron, 2023, 132, 133245. Impact factor: 2.388
- Praveen P.Singh, Pravin K. Singh and Vishal Srivastava Visible light metallaphotoredox catalysis in the late-stage functionalization of pharmaceutically potent compounds Org. Chem. Front., 2023, 10, 216–236. Impact factor: 5.456
   Shraddha Tivari, Pravin K. Singh, Praveen P. Singh and Vishal Srivastava
- Shraddha Tivari, Pravin K. Singh, Praveen P. Singh and Vishal Srivastava Visible light-induced photoredox catalyzed C–N coupling of amides with alcohols RSC Advances, 2022, 12, 35221-35226. Impact factor: 3.90

- Praveen P. Singh, Surabhi Sinha, Geetika Pandey and Vishal Srivastava Molybdenum disulfide (MoS<sub>2</sub>) based photoredox catalysis in chemical transformations RSC Advances, 2022, 12, 29826-29839. Impact factor: 3.90
- 10. Vishal Srivastava and Praveen P. Singh Recent advances in visible-light graphitic carbon nitride (g-C<sub>3</sub>N<sub>4</sub>) photocatalysts for chemical transformations RSC Advances, 2022, 12, 18245-18265. Impact factor: 3.90
- Vishal Srivastava, Pravin K. Singh and Praveen P. Singh Recent advances of visible-light photocatalysis in the functionalization of organic compounds Journal of Photochemistry & Photobiology, C: Photochemistry Reviews, 2022, 50, 100488. Impact factor: 17.176
- Vishal Srivastava, Pravin K. Singh, Shraddha Tivari and Praveen P. Singh Visible light photocatalysis in the synthesis of pharmaceutically relevant heterocyclic scaffolds Organic Chemistry Frontiers, 2022, 9, 1485-1507. Impact factor: 5.456
- Vishal Srivastava, Pravin K. Singh, Arjita Srivastava, Surabhi Sinha and Praveen P. Singh Recent Advances of Dicyanopyrazine (DPZ) in Photoredox Catalysis Photochem, 2021, 1, 237-246.
- Praveen P. Singh, Pravin K. Singh, Mohd. Zaheeruddin Beg, Akanksha Kashyap and Vishal Srivastava Recent applications of photoredox catalysis in O-heterocycles: A short review Synthetic Communications, 2021, 51(20), 3033-3058.
   Impact factor: 1.937
- Vishal Srivastava, Pravin K. Singh, Arjita Srivastava and Praveen P. Singh Synthetic applications of flavin photocatalysis: a review RSC Advances, 2021, 11, 14251-14259. Impact factor: 3.9
- Praveen P. Singh and Vishal Srivastava Recent advances of 4DPAIPN in photocatalytic transformations Organic and Biomolecular Chemistry, 2021, 19, 313-321.

Impact factor: 3.89

- Arjita Srivastava, Pravin K. Singh, Akram Ali, Praveen P. Singh and Vishal Srivastava Recent applications of Rose Bengal catalysis in N- heterocycles: A short review RSC Advances, 2020, 10, 39495-39508.
   Impact factor: 3.90
- Vishal Srivastava, Pravin K. Singh, Arjita Srivastava and Praveen P. Singh Recent application of visible-light induced radicals in C-S bond formation: A Review RSC Advances, 2020, 7, 20046-20056. Impact factor: 3.90
- Vishal Srivastava, Pravin K. Singh, and Praveen P. Singh Visible Light Promoted Synthesis of Disubstituted 1,2,3-Thiadiazoles Romanian Journal of Chemistry, 2020, 65(3), 221-226. Impact factor: 0.41
- Vishal Srivastava, Pravin K. Singh, and Praveen P. Singh Eosin Y catalysed visible-light mediated aerobic oxidation of tertiary amines Tetrahedron Letters 2019, 60, 151041.
   Impact factor: 2.032
- Vishal Srivastava, Pravin K. Singh, and Praveen P. Singh Photocatalysed eosin Y mediated C(sp3)-H alkylation of amine substrates via direct HAT Tetrahedron Letters 2019, 60, 1333–1336. Cover feature Impact factor: 2.032
- 22. Vishal Srivastava, Pravin K. Singh, and Praveen P. Singh

Visible light photoredox catalysed amidation of carboxylic acids with amine

Tetrahedron Letters 2019, 60, 40-43.

Impact factor: 2.032

- Vishal Srivastava, Pravin K. Singh, Sudhanshu Kanaujia and Praveen P. Singh Photoredox catalyzed synthesis of amino alcohol New J. Chem, 2018, 42, 688-691. Impact factor: 3.925
- Pravin K. Singh, Praveen P. Singh and Vishal Srivastava, Facile aerobic oxidative synthesis of sulfinic esters, Croat. Chem. Acta, 2018, 91(3), 383-387. Impact factor: 0.659

- 25. Vishal Srivastava and Praveen P. Singh Eosin Y catalyzed photoredox synthesis: A Review RSC Advances, 2017, 7, 31377-31392.
  Impact factor: 3.90
- Vishal Srivastava, Pravin K. Singh and Praveen P. Singh Visible light promoted Allylic C-H Oxidation Croat. Chem. Acta, 2017, 90(3), 435-441.
   Impact factor: 0.659
- 27. Vishal Srivastava, Pravin K. Singh and Praveen P. Singh [bmIm]OH Catalysed Four component One-pot Synthesis of Imidazo[4,5-c]Pyrazole-2-Thione-N-Nucleosides Romanian Journal of Chemistry, 2016, 61(10), 755-761. Impact factor: 0.41
- Vishal Srivastava, Pravin K. Singh and Praveen P. Singh Trifluoromethylation of Disubstituted Morpholines by Metal-FreeVisible Light Photoredox Catalysis. Asian Journal of Chemistry, 2016, 28(10), 2159-2163. Impact factor: 0.158
- 29. Vishal Srivastava, Pravin K. Singh and Praveen P. Singh Eosin Y catalyzed visible-light-promoted one –pot facile synthesis of 2- aminobenzothiazole. Croat. Chem. Acta, 2015, 88(3), 227-233. Impact factor: 0.41
- Vishal Srivastava, Pravin K. Singh and Praveen P. Singh Eosin Y Catalyzed Visible-light-promoted One –Pot Facile Synthesis of 1,3,4- Thiadiazole. Croat. Chem. Acta, 2015, 88(1), 59-65. Impact factor: 0.651
- Vishal Srivastava, Pravin K. Singh and Praveen P. Singh Novel one-pot facile synthesis of thiopyranopyrazole using [H mim]HSO<sub>4</sub> catalyst. Croat. Chem. Acta, 2014, 87(2), 91-95. Impact factor: 0.651
- 32. Vishal Srivastava, Pravin K. Singh and Praveen P. Singh Microwave-mediated InCl<sub>3</sub> catalysed three component efficient annelation of thiadiazinyl ring on 4-Amino-4H-[1,2,4]triazole-3-thiol. Chemistry of Heterocyclic Compounds, Vol. 50, No. 4, July, 2014, 573-578. (Russian Original Vol. 50, No. 4, April, 2014). Impact factor: 1.49

- 33. Ibadur R.Siddiqui, Pravin K Singh, Vishal Srivastava, Shayna Shamim & J Singh. A novel versatile strategy for synthesis of new series of thiazolo-triazine *N*-nucleosides Indian J. Chem., 2012, *51B*, 871-879. Impact factor: 0.456
- 34. Ibadur R. Siddiqui, Archana Singh, Shayna Shamim, Vishal Srivastava, Pravin K.Singh, Sanjay Yadav and Rana K. P. Singh.
  Recyclable Indium(III) Chloride Catalyzed Site-Selective Double Substitution in One Pot for the Synthesis of Isatin N-Ribonucleosides under Microwave Irradiation.
  Synthesis, 2010, Issue 10, 1613-1616.
  Impact factor: 3.019
- Ibadur R. Siddiqui, Shayna Shamim, Archana Singh, Vishal Srivastava, and Sanjay Yadav. Moisture compatible and recyclable indium (III) chloride catalyzed and microwave assisted efficient route to substituted 1H-quinolin-2-ones. Arkivoc, Issue XI, 2010, 232-241. Impact factor: 0.689
- 36. Ibadur R. Siddiqui, Pravin K. Singh, Vishal Srivastava, Sanjay Yadav and J.Singh.
  A novel versatile strategy for synthesis of new series of 4(3H)-quinazolinone *N*-nucleosides.
  Indian J. Chem, 2010, 49B, 1535-1541.
  Impact factor: 0.456
- 37. Ibadur R. Siddiqui, Pravin K. Singh, Vishal Srivastava and J.Singh.
  Facile synthesis of acyclic analogues of carbocyclic nucleoside as potential anti-HIV pro-drug.
  Indian J. Chem, 2010, 49B, 512-520.
  Impact factor: 0.456
- Ibadur R. Siddiqui, Vishal Srivastava and Pravin K. Singh. Mineral - supported facile synthesis of novel 4-hydroxybenzoxazin-2-thione *N*-nucleosides. Nucleosides, Nucleotides and Nucleic Acids, 27, Issue 6, 2008, 992-1000. Impact factor: 1.449
- Ibadur R. Siddiqui, Siraj A. Siddique, Pravin K. Singh, Vishal Srivastava and J.Singh.
   A novel anthranilic acid based multi-component strategy for expeditious synthesis of 4(3H)quinazolinone N-nucleosides.
   Arkivoc, Issue XII, 2008, 277-285.
   Impact factor: 0.689
- 40. Ibadur R. Siddiqui, Pravin K. Singh, Vishal Srivastava and J.Singh. Clay-catalysed high-speed synthesis of thiadiazepine in one-pot. Indian J. Chem, 2007, 46B, 1716-1720. Impact factor: 0.456

41. Pravin Kumar Singh, Vishal Srivastava, J.Singh and Ibadur R. Siddiqui. Novel clay-catalysed expeditious cyclization to bis-benzothiazipene. Indian J. Chem, 2005, 44B, 2178-2182. Impact factor: 0.456

## **Conferences/ Seminars/Symposium:**

International: 03 National: 30