

Curriculum Vitae

Dr. Naresh kumar

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Educational Details

Research Degree

Degree	Title	University	Status	Work Place	Supervisor
Ph.D.	“Synthesis and Studies on the Optical Properties of Heterocyclic and Aryl Based Donor-Acceptor Conjugated Systems.”	H.N.B.Garhwal University (A Central University) Srinagar Garhwal.	Awarded (December - 2018)	Research Lab Chemistry Department Chauras Campus, HNB Garhwal University	Dr. P.K.Hota Assistant Professor Department of Chemistry, H.N.B. Garhwal University

Academic Qualifications

Degree	Year	Subject	University
M.Sc.	2007	Organic Chemistry	H.N.B.Garhwal University(A Central University)
B.Sc.	2004	Chemistry, Botany, Zoology	Himachal Pradesh University Shimla
B.Ed.	2005	PTLP, SMPE, EEIS, DESI	University of Jammu

Other Qualifications

Exam Qualified	Year	Subject
CSIR-NET	June 2012 & December 2012	Chemical Sciences
GATE	2010 & 2012	Chemistry

Teaching Experience

Post	Session	Classes Taught	Organisation
Guest Teacher	2017-18 2018-19 2019-20	Graduate & Post Graduate	Department of Chemistry, Birla Campus, H.N.B. Garhwal University Srinagar Garhwal
Guest Teacher	2020-21	Graduate & Post Graduate	Department of Chemistry, SRT Campus, H.N.B. Garhwal University Tehri Garhwal
Guest Teacher	2021-22	Graduate & Post Graduate	Department of Chemistry, BGR Campus, H.N.B. Garhwal University Pauri Garhwal
Assistant Professor Chemistry (Applied Sciences)	2022-23 2023-24 2024-25 2025-26	Graduate & Post Graduate	Department of Applied Sciences & Humanities, School of Engineering & Technology, Chauras Campus, H.N.B. Garhwal University Srinagar Garhwal

I have considerable experience of seven sessions of teaching and mentoring students at both the undergraduate and post graduate level. I have taught, applied, inorganic, organic, analytical and physical chemistry to the students along with lab course works at undergraduate and post graduate level.

Fellowships & Awards

- ❖ UGC fellowship for Ph.D.(2013-2018)

- ❖ 2nd Prize in poster presentation in National Conference on Recent Frontiers in Chemistry, "Synthesis, Fluorescence and Photoisomerization Studies on p-Phenyl Substituted Ethenyl Furan"(April 27-28,2018, HNBGU Srinagar Garhwal), 64.

List of Research Publications

Research Article

- ❖ **Naresh Kumar**, Anamika Gusain, Jagdeep Kumar, Rajendra Singh and Prasanta Kumar Hota(2021) "Anti-oxidation properties of 2-substituted furan derivatives: A Mechanistic study." **Journal of Luminescence**. 230(2021),117725. **(Impact Factor 4.171)**.
- ❖ **Naresh Kumar**,M Paramasivam Jagdeep Kumar , Anamika Gusain, and Prasanta Kumar Hota. (2018) "Tuning of optical properties of p phenyl ethenyl E furans: A Solvatochromism and Density functional theory." **Spectrochim. Acta A: Molecular and Biomolecular Spectroscopy** 206 (2019) 396–404 **(Impact factor 4.831)**.
- ❖ **Naresh Kumar**,M Paramasivam Jagdeep Kumar , Anamika Gusain, and Prasanta Kumar Hota. (2018) "Substituent Dependent Optical Properties of p-phenyl Substituted ethenyl-E-thiophene." **J. Fluoresc.** 28(2018) 1207-1216 **(Impact factor 2.525)**.
- ❖ **Naresh Kumar**,Jagdeep Kumar,and Prasanta Kumar Hota. (2018) "Substituent dependent photoreactivity of donor-acceptor phenyl ethene." **Lett. Org. Chem** 15,479-484. **(Impact factor 1)**.
- ❖ **Naresh Kumar**,Jagdeep Kumar,and Prasanta Kumar Hota. (2017) "Substituent dependence charge transfer and photochemical properties of donor-acceptor substituted ethenyl thiophenes." **J. Fluoresc.** 27, 1729-1738. **(Impact factor 2.525)**.
- ❖ Anamika Gusain, Km. Srishti ,Oseen Negi, **Naresh Kumar** and Prasanta Kumar Hota (2025)"Metal Sensing and Radical Quenching Properties of Thiophene-based Hydrazone." Letter in Organic Chemistry.22(5),387-394. DOI: 10.2174/0115701786337428241125091159. **(Impact factor 1)**.
- ❖ Jagdeep Kumar,**Naresh Kumar**, Nitin Sati, and Prasanta Kumar Hota. (2020) "Antioxidant properties of ethenyl indole: DPPH assay and TDDFT studies." **New Journal of Chemistry**. 44,(8960-8970) **(Impact factor 3.069)**.
- ❖ Jagdeep Kumar, **Naresh Kumar**, and Prasanta Kumar Hota. (2020) "Optical properties of 3-substituted indoles." **RSC Advances**. 10,28213-28223. **(Impact factor 4.036)**.
- ❖ Anamika Gusain, **Naresh Kumar**, Jagdeep Kumar , Gunjan Pandey and Prasanta Kumar Hota. (2020) "Antiradical properties of trans-2-(4-substituted-styryl)-thiophene" **J. Fluoresc.** 31,51-61. **(Impact factor 2.525)**.
- ❖ Rajendra Singh, Vivek Ahluwalia, Pratap Singh, **Naresh Kumar**, Om Prakash Sati and Nitin Sati(2015). "Antifungal and phytotoxic activity of essential oil from root of *Senecio amplexicaulis* kunth. (Asteraceae) growing wild in high altitude Himalayan region." *Natural Product Research*. 30,1875-1879 **(Impact factor 2.488)**.
- ❖ Pratap Singh, Rajendra Singh, Nitin Sati, Om Prakash Sati, **Naresh Kumar** (2015) " Antioxidant and Antibacterial activity of *Jurinea dolomiaea* Boiss Extract" **International Journal of Life-Sciences Scientific Research (IJLSSR)**.1(2), 74-78.
- ❖ U.P. Bhatt, S.C. Sati, Subhash Chandra, Sudheer Kumar.Amit Anthwal Rajendra Singh, Darshan Singh, **Naresh Kumar**, Ashok Kumar, R.P. Bahuguna(2015) "Evaluation of In Vivo and In Vitro Anti-diabetic activity of *Roylea cinerea*." *Int.J.Pharm.Sci.Res.*32(2),210-213.

- ❖ Anamika Gusain, Km Srishti, Oseen Negi **Naresh Kumar**, and Prasanta Kumar Hota. "Radical quenching and LOX inhibiting properties of Indole derivatives: A plausible mechanism of action through HAT, SET-PT and SPLET pathway". **(Communicated)**
- ❖ Oseen Negi, Km Srishti, Anamika Gusain, **Dr.Naresh Kumar**, Dr.Prasanta Kumar Hota. "A coumarin based colorimetric cupric ion [Cu²⁺] sensor: A possible metal complex and antioxidant activities through electron transfer mechanism." **(Communicated)**
- ❖ Oseen Negi, Km Srishti, Anamika Gusain, Rahul Kumar Vishwakarma, **Naresh Kumar**, Niraj Kumar, Madavi S. Prasad., Prasanta Kumar Hota. "Coumarin based 3-(phenyl hydrazone) as an antioxidant and LOX inhibitor: A plausible radical quenching through single electron transfer pathway." **(Communicated)**

Review Article

- ❖ Jagdeep Kumar,**Naresh Kumar**, and Prasanta Kumar Hota. (2018) "Excited state and fluorescence probe properties of donor-acceptor substituted ethenes : A plausible photochromic material for organic electronics." **Indian J. Chem. Section B** (Vol. 57B, 301-307). (Impact factor 0.456).
- ❖ Jagdeep Kumar, **Naresh Kumar**,and Prasanta Kumar Hota. (2016) " Donor-acceptor conjugated system: A neutral hydrophobic fluorescence probe." **J. Anal. Pharm. Res** 3(5),00068. (prospective/Review article). (e-ISSN- 2473 0831).
- ❖ **Naresh Kumar**,Jagdeep Kumar,and Prasanta Kumar Hota. (2015) " Donor-acceptor conjugated molecules - Charge transfer, mechanism and significance." **Res. Rev. J. Chem.** 4(4), 87-91. (prospective/Review article) (e-ISSN- 2319 9849).

Patents

- Km Srishti, Oseen Negi, Anamika Gusain, **Dr.Naresh Kumar**, Dr.Prasanta Kumar Hota
Title:- "A indole-based colorimetric sensor and method for detecting copper ion in the water." (Published)
 Application No.-202311077426
 Date of Submission-14/11/2023
 Date of Publication- 13/06/2025
- Dr. Naresh Kumar, Dr. Subhash Chandra, Dr. K. K. Shivakumar, Monika Kawra.
Title:- "Use of organometallic composition of mercury for the treatment of cancer and other disease." (Published)
 Application No.-202311054456
 Date of Publication-08/09/2023

Conference Presentation

International

- **Naresh Kumar**, Prasanta Kumar Hota. International Conference on Nanotechnology: Ideas, Innovations & Initiatives (ICN: 31-2017) "Substituent induced structure and photochemical properties of ethenyl furan", (December 6-8, 2017, IIT Roorkee, Roorkee) P-6E-12.
- **Naresh Kumar**, Prasanta Kumar Hota. International Conference on Advances in Analytical Sciences, "Synthesis, Fluorescence and Antioxidant Activity of Ethenyl thiophenes" (March15-17,2018,IIP Dehradun) A-056.
- **Naresh Kumar**, Prasanta Kumar Hota. International Conference on Aerosols, Air Quality, And Climate Change (AAC-2018) on Himalayan Region of Uttarakhand. "Synthesis and Substituent Dependence Charge Transfer Properties of Ethenyl thiophenes"(Oct 21-23,2018, Department of Physics, HNBGU Srinagar Garhwal)
- **Naresh Kumar**, Prasanta Kumar Hota. International E-Conference on multidisciplinary research, Practices & Innovation(ICMRPI-2023), "Substituent dependent absorption and photochemical studies of synthesized ethenyl

thiophene". July15-16,2023, Department of Biotechnology & Microbiology, Kalp Laboratories, Mathura.(Oral Presentation)

- **Naresh Kumar**, Rohit Singh Sajwan. International Conference on Nano Material & Green Technology For Sustainability(ICNMGT-2024) Synthesis of Metal Nanoparticles from selected Plant Leaves: A Comprehensive Analysis of their Biological Activity.October 25-26,2024, School of Applied & Life Sciences(SALS) Uttarakhand University, Dehradun.(Oral Presentation)

- Anamika Gusain , **Naresh Kumar** and Prasanta Kumar Hota, 15th DAE-BRNS Biennial Trombay Symposium on Radiation & Photochemistry (TSRP-2020) "Synthesis and biological properties of Ethenyl thiophenes" (January 5-9, 2020, BARC, Mumbai) P-112

- Prasanta Kumar Hota, Jagdeep Kumar and **Naresh Kumar** , 24 ISCB International Conference (ISCBC-2018) Frontier Research in Chemistry & Biology Interface "Conjugated Molecule: Substituent directed light induced properties and medicinal activities"(January 11-13, 2018, Manipal University, Jaipur), Oral Presentation, OP-23

National

- **Naresh Kumar**, Prasanta Kumar Hota. National Symposium on Radiation & Photochemistry (NSRP2017) " Fluorescence and photoisomerization properties of ethenyl furans"(March 2-4, 2017, Manipal University, Udupi), PC-46.

- **Naresh Kumar**, Prasanta Kumar Hota. National Conference on Recent Frontiers in Chemistry, "Synthesis, Fluorescence and Photoisomerization Studies on p-Phenyl Substituted Ethenyl Furan"(April 27-28,2018,HNBGU Srinagar Garhwal), 64.

- **Naresh Kumar**, Prasanta Kumar Hota., National Conference on Recent Advances in Chemical and Nano Sciences, "Substituent Dependent Absorption and Charge Transfer Properties of Synthesized Ethenyl Furan." (October 29-30,2018 HNBGU Pauri Campus, Pauri Garhwal)81.

- **Naresh Kumar**, Prasanta Kumar Hota., National Conference on Recent Advancements in Natural Products Chemistry and Nanotechnology(RANPCN-2019), "Absorption, Fluorescence and photochemical properties of synthesized p-phenyl substituted ethenyl thiophenes."(September 9-10,2019 HNBGU Srinagar Garhwal).

- Prasanta Kumar Hota, **Naresh Kumar** and Jagdeep Kumar, National Symposium on Radiation & Photochemistry (NSRP2017) " Effect of substituent and solvent on the fluorescence and photoisomerization properties of ethenyl thiophene" (March 2-4, 2017, Manipal University, Udupi), PC-48.

Workshops/Webinar/Conference Attended & Organized

- **Member** of organizing committee of Skill Development program sophisticated research instruments under the scheme of STUTI by Department of science and technology organized by Department of Chemistry, H.N.B. Garhwal University Srinagar Garhwal from12-05-2023 to 18-05-2023.

- **Member** of organizing committee of one week Science festival organized by H.N.B. Garhwal University Srinagar Garhwal from 28-02-2023 to 04-03-2023.

- Online Lecture Series on Intellectual Property Rights organized by Department of Chemistry & IPR Cell, V.S.K.C.Rajkiya Smtokotari Mahavidyalaya Dakpathar, Vikasnagar (Dehradun) on 16-02-2026.(Attended)

- Carrier Prospective in Chemistry organized by Department of Chemistry,SRT Campus, HNB Garhwal University on 24 April 2023.(Attended)

- IP awareness training program under International intellectual property awareness mission organized by Intellectual property office, India on 10-02-2023. (Attended)

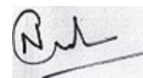
- Online National workshop on “Recent Trends in Instrumental Techniques of Chemical Analysis” organized by Department of Chemistry, Government ShyamSundar Agrawal PG College, Sihora, Jabalpur(M.P.) from 08-13 February 2021(6 Days). (Attended)
- One day International webinar on “The Current trends in chemical research and applications” organized by Department of Chemistry, S.K.P. Government College Guntakal Ananthapuramu Distt. A.P. on 21-12-2020. (Attended)
- One day National workshop on “Intellectual Property Rights(IPR)” organized by Department of Pharmaceutical Chemistry, H.N.B. Garhwal University Srinagar Garhwal on 17-11-2018. (Attended)
- Workshop on “Physical and applied Sciences: with particular reference to contribution to Indian Scientists” organized by Department of Physics, H.N.B. Garhwal University Srinagar Garhwal on 14 March 2018. (Attended)
- TEQIP-III Sponsored workshop on “Material Characterization by SEM, TEM, XRD & EBSD” organized by Department of Mechanical Engineering at G.B. Pant Institute of Engineering & Technology, Pauri Garhwal, Uttarakhand on 27-28 October 2017(Two days). (Attended)

Others Duties:-

- **Member** of University NIRF committee for the session 2025-26 H.N.B. Garhwal University.
- **Member** of University NAAC committee for 2025, H.N.B. Garhwal University.
- **Member** of 11th & 12th Convocation Committee, (Online mode, Venue, Stage & Over all Facilities.), H.N.B. Garhwal University.
- **Co-ordinator**, B.Tech. 1st Sem for the session 2024-25 School of Engineering & Technology.
- **Member** of University Foundation Day Celebrations Committee, (Online mode, Venue, Stage & Over all Facilities.) H.N.B. Garhwal University.
- **Member** of B.Tech admission Committee for the session 2023-24, 2024-25,2025-26 School of Engineering & Technology.
- **Member** of Departmental Purchase Committee. (Applied Sciences), School of Engineering & Technology.
- **Member** of Interfaculty competitions 2023-24,2024-25,2025-26 for School of Engineering & Technology, H.N.B. Garhwal University.
- **Member** of B.Tech 1st Sem. Discipline Committee, School of Engineering & Technology.

Declaration

I hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.



(Dr. Naresh Kumar)