


## Curriculum Vitae

<b>Full Name</b>	PRASANTA KUMAR HOTA			
<b>Designation</b>	Assistant Professor			
<b>Department</b>	Chemistry			
<b>Campus</b>	Srinagar			
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<b>Website</b>	<a href="https://sites.google.com/site/chemistryhnbgarhwaluniversity/home/">https://sites.google.com/site/chemistryhnbgarhwaluniversity/home/</a>			
<b>ORCID ID</b>	<a href="https://orcid.org/0000-0002-4057-1831">https://orcid.org/0000-0002-4057-1831</a>			
<b>Scopus ID</b>	6701739855			
<b>WoS ID</b>	J-4319-2019			
<b>Education Qualification</b>	<b>Degree (Year)</b>	<b>University</b>		
	M.Sc. (Chemistry) (1997)	Sambalpur University, Odisha		
	M.Phil. (Chemistry) (1999)	Sambalpur University, Odisha		
	Ph.D. (Chemistry) (2006)	I. I.T. Bombay		
<b>Teaching Experience</b>	9.5 Years	<b>Research Experience</b>	25.5 Years	
<b>Areas of Interest/ Specialization</b>				
<ol style="list-style-type: none"> <li>1. Organic Chemistry, Physical Organic Chemistry, Bio-Organic Chemistry</li> <li>2. Photochemistry and Photophysics of Synthetic and Naturally occurring Photochromic Materials</li> <li>3. Green Chemistry</li> <li>4. Receptor Protein-Drugs Interaction</li> <li>5. Organic Materials for Electronics Applications</li> <li>6. Sensor for Industrial and Biological Applications</li> </ol>				
<b>Honours &amp; Awards</b>				
<p>Received Research Grant from University Grants Commission, New Delhi, India, 2014-2016, American Heart Association, Great Rivers Affiliate, USA, 2008-2010.</p> <p>Received Senior Research Fellowship (SRF) and Junior Research Fellowship (JRF) in Chemistry from University Grants Commission, New Delhi, India under CSIR-UGC Fellowship Scheme, 1999-2004. Received two Gold Medals from Sambalpur University, India for securing highest marks in the Master of Science and Bachelor of Science, Department of Chemistry 1997, 1995.</p>				
<b>Member of Academic Institutions:</b> None				
<b>Membership of Scientific Organization</b>				
<ol style="list-style-type: none"> <li>1. Life member Chemical Research Society of India</li> <li>2. Life member Indian Society of Radiation and Photochemical Sciences</li> <li>3. Life member Association of Chemistry Teachers</li> <li>4. Life member Indian Science Congress Association</li> </ol>				
<b>Research Supervision (No. of Ph.D. Degree Awarded/ Registered)</b>				
No. of Ph.D student awarded degree <b>3</b>				
No. of Ph.D student submitted thesis <b>0</b>				
No. of Ph.D student registered <b>2</b>				

### Research Projects

1. Title of project : Optical properties of heterocyclic and aryl based donor-acceptor conjugated systems. Funding agency: University Grants Commission, New Delhi, Year : 2014-2016, Total Cost : INR 6,00,000, PI: Dr P K Hota
2. Title of project: Plexins In cardiovascular development: Signaling mechanisms involving the juxtamembrane region and lipid binding. Funding Agency : American Heart Association (AHA), USA, Year : 2008-2010, Total Cost : USD 88,000, PI: Dr P K Hota

Mentor for postdoctoral research project

1. Title of project: Synthesis of N, Si-Co-doped MNPs@TiO<sub>2</sub> nanocomposites (M = Au, Ag, Pd) and its photocatalytic performance. Funding Agency: DST-SERB (Scheme: National Postdoctoral Fellowship, Year : 2017- 2019. Total cost : INR 19,20,000 PI: Dr Gunjan Pandey

### Administrative Experience

1. Member of Board of Studies (BoS), Department of Chemistry, HNBGU (2018-2019)
2. Member of BSc and MSc Admission Committee, HNBGU (2014-present)
3. Member of Department Purchase Committee, Chemistry, HNBGU (2014-present)

### Scientific Visits Abroad/International Collaboration Papers presented in-

Postdoctoral Fellow at McMaster University, Hamilton, Canada (2012-2013)  
Postdoctoral Fellow at Case Western Reserve University, Cleveland, USA (2006-2011)

### Conference/Symposium/Workshop Attended during last five years (2016-2022). International

1. **Hota PK** and Kumar J, 15th DAE-BRNS Biennial Trombay Symposium on Radiation & Photochemistry (TSRP-2020) "Antioxidant properties of ethenyl indoles" (January 5-9, 2020, BARC, Mumbai) P-110
2. Gusain A, Kumar N and **Hota PK**, 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
3. **Hota PK**, Kumar J and Kumar N, 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
4. Kumar J and **Hota PK**, 24 ISCB International Conference (ISCBC-2018) Frontier Research in Chemistry & Biology Interface "Synthesis, fluorescence and antioxidant activity of ethenyl indoles" (January 11-13, 2018, Manipal University, Jaipur), P-43
5. **Hota PK**, Kumar N and Kumar J, 13th DAE-BRNS Biennial trombay symposium on radiation & photochemistry 2016 incorporating with 6th Asia pacific symposium on radiation chemistry-2016 "Photophysical studies on ethenyl indole and thiophene " (January 5-9, 2016, BARC, Mumbai) PP-138.

### National

1. **Hota PK**, 4<sup>th</sup> National Conference on Recent Advancement in Physical Sciences (NCRAPS-2022) "Optical, Photochemical and Biological Properties of Styryl Compounds" (December 19-20, 2022, NIT Uttarakhand)
2. **Hota PK**, Kumar J, Kumar N, Gusain A, Srishti K, Negi O, 2<sup>nd</sup> National Conference on Contemporary Facets in Organic synthesis (CFOS-2022) "Synthesis, Photoisomerisation and Biological Properties of Styryl Compounds" (December 1-4, 2022, IIT Roorkee) P-121
3. **Hota PK**, Biennial National Symposium on Radiation & Photochemistry (NSRP-

- 2021), "A correlation of optical properties with antioxidant activity of heterocyclic compounds" (June 25-26, 2021, ISRAPS and IIT Gandhinagar) PC52
4. **Hota PK**, National Conference on Recent Frontier in Chemistry (NCRFC-2018), "Substituent directed light induced properties of conjugated molecules" (April 27-28, 2018, HNB Garhwal University, Srinagar campus)(Oral/ Invited presentation)
  5. **Hota PK**, Kumar N and Kumar J, 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

#### **Peer-Reviewed Publications (2016-2022)**

Kumar N, Gusain A, Kumar J, Singh R and **Hota PK** (2021) Anti-oxidation properties of 2-substituted furan derivatives: A mechanistic study. Journal of Luminescence 230, 117725. Impact factor 4.1. ISSN 00222313 (Elsevier)

Gusain A, Kumar N, Kumar J, Pandey G and **Hota PK** (2021) Antiradical properties of trans-2-(4-substituted-styryl)-thiophene. Journal of Fluorescence 31(1), 51-61. Impact factor 2.5. ISSN-10530509 (Springer Nature)

Kumar J, Kumar N and **Hota PK** (2020) Optical properties of 3-substituted indoles. RSC Advances 10, 28213-28224. Impact factor 4.0. ISSN 20462069 (Royal Society of Chemistry)

Kumar J, Kumar N, Sati N and **Hota PK** (2020) Antioxidant properties of ethenyl indole : DPPH assay and TDDFT studies. New Journal of Chemistry 44, 8960-8970. Impact factor 3.9. ISSN 11440546 (Royal Society of Chemistry)

Kumar P R, Yennam S, Raghavulu K, Velatooru L R, Kotla S R, Penugurti V, **Hota P K**, Behera M and Shree A J (2019) Synthesis of novel diaziridinyl quinone isoxazole hybrids and evaluation of their anti-cancer activity as potential tubulin-targeting agents. Drug Research 69, 406-414 (stuttg) Impact factor 1.7. ISSN 21949379 (Thieme)

Sambaiah M, Malleshm P, Kumar K S, Bobde Y, **Hota P K**, Yennam S, Ghosh B and Behera M (2019) Tandem Schiff-base formation/heterocyclization: An approach to the synthesis of fused pyrazolo-pyrimidine/isoxazolo-pyrimidine hybrids. Synlett, 30, 586-592. Impact factor 2.4. ISSN 09365214 (Thieme)

Kumar N, Paramasivam M, Kumar J, Gusain A and **Hota PK** (2019) Tuning of optical properties of *p*-phenyl ethenyl-E-furans: A solvatochromism and density functional theory. Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy 206, 396-404. Impact factor 4.8. ISSN 13861425 (Elsevier)

**Hota P K** (2019) An overview on biomolecular caging and photocleavable molecules. Indian Journal of Chemistry Section B 58, 219-226. Impact factor 0.6. ISSN 0376-4699 (CSIR-NISCAIR)

Kumar N, Paramasivam M, Kumar J, Gusain A and **Hota PK** (2018) Substituent dependent optical properties of *p*-phenyl substituted ethenyl-E-thiophenes. Journal of Fluorescence 28, 1207-1216. Impact factor 2.5. ISSN-10530509 (Springer Nature)

Kumar N, Kumar J and **Hota PK** (2018) Substituent dependent photoreactivity of donor-acceptor substituted phenyl ethenes. Letters in Organic Chemistry 15(6), 479-484. Impact factor 0.7. ISSN-15701786 (Bentham)

Kumar J, Kumar N and **Hota PK** (2018) Excited state and fluorescence probe properties of donor-acceptor substituted ethenes : A plausible photochromic material for organic electronics. Indian Journal of Chemistry Section B 57, 301-307. Impact factor 0.6. ISSN-03764699 (CSIR-NISCAIR)

**Hota PK** and Singh A K (2018) Donor-acceptor conjugated polyenes: A study of excited state intramolecular charge transfer, photoisomerisation and fluorescence probe properties. Journal of Fluorescence 28, 21-28. Impact factor: 2.5. ISSN-10530509 (Springer Nature)

Kumar N, Kumar J and **Hota PK** (2017) Substituent dependence charge transfer and photochemical properties of donor-acceptor substituted ethenyl thiophenes. Journal of Fluorescence 27, 1729-1738. Impact factor 2.5, ISSN 10530509 (Springer Nature)

Jennings W, Doshi S, **Hota PK**, Prodeus A, Black S and Epanand RM (2017) Expression, purification and properties of a human arachidonoyl specific isoform of diacylglycerol kinase. Biochemistry 56, 1337-1347. Impact factor 3.3, ISSN 00062960 (American Chemical Society)

Ravi Kumar P, Balakrishna C, Murali B, Gudipati R, **Hota PK**, Chaudhary AB, Jaya Shree A, Yennam S and Behera M (2016) An efficient synthesis of 8-substituted odoratine derivatives by the Suzuki coupling reaction. Journal of Chemical Sciences 128, 441-450. Impact factor 2.1. ISSN-09743626 (IAS India + Springer Nature)

#### **Book/Book Chapter**

Muller-Greven J, Kim SJ, **Hota PK**, Tong Y, Borthakur S, Buck M (2017) "Characterizing Plexin GTPase Interactions Using Gel Filtration, Surface Plasmon Resonance Spectrometry, and Isothermal Titration Calorimetry, Methods in Molecular Biology vol. 1493, chapter 6, 89-105, in "Semaphorin Signaling" edited by J R Terman, e-ISBN 978-1-4939-6448-2 / print ISBN- 978-1-4939-6446-8 Springer New York

**Hota, PK**. Singh, AK (2013) Synthetic photoresponsive systems, Lambert academic publishing, Germany, ISBN No 978-3-659-44894-2.

#### **Reviewer for Journals**

New Journal of Chemistry; Photochemistry and Photobiology; Photochemical & Photobiological Sciences; Journal of Medicinal Chemistry; Journal of Bioorganic and Medicinal Chemistry; Protein Science; Journal of Fluorescence; Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy; Chemistry and Biodiversity; Indian Journal of Biochemistry and Biophysics (IJBB); Indian Journal of Chemistry Section B: Organic Chemistry including Medicinal Chemistry; Indian Journal of Chemistry Section A : Inorganic, Bio-inorganic, Physical, Theoretical & Analytical Chemistry; International Journal of Quantum Chemistry;

#### **Training Courses Completed**

**Dr P K Hota** participated and successfully completed ONE WEEK FLEXIBLE MODE ONLINE NATIONAL Faculty Development Program "Safer and Greener Chemistry Labs" (19 July 2022 to 25 July 2022, Unique Certificate No OFDP87/022) Sponsored agency :

Government of India Ministry of Education, GAD-TLC under PMMMNMTT, SGTB Khalsa college, University of Delhi.

**Dr P K Hota** participated and successfully completed ONE WEEK FLEXIBLE MODE ONLINE NATIONAL Faculty Development Program "Basics of Research Methodology and Issues in Plagiarism (An interdisciplinary Approach)" (31 May 2022 to 06 June 2022, Unique Certificate No OFDP83/159) Sponsored agency : Government of India Ministry of Education, GAD-TLC under PMMMNMTT, SGTB Khalsa college, University of Delhi.

**Dr P K Hota** participated and successfully completed SWAYAM ONLINE ARPIT COURSE "X-Ray Crystallography" (16 weeks duration, 01 December 2020 to 31 March 2021, more than 40 hrs programme and 20 hrs video contents, Examination held on 21 August 2021) Sponsored agency : Government of India MHRD, UGC, AICTE, Indian Institute of Science Bangalore.

**Dr P K Hota** participated and successfully completed SWAYAM ONLINE ARPIT COURSE "Online Refresher Course in Chemistry for Higher Education" (16 weeks duration, 01 September 2019 to 31 December 2019, more than 40 hrs programme and 20 hrs video contents, 14 Quizzes, Examination held on Sunday, 16 February 2020) Sponsored agency : Government of India MHRD, UGC, AICTE, SGTB Khalsa college, University of Delhi.

**Dr P K Hota** participated and successfully completed in the Refresher Course in Chemistry RP-62, (sponsored by UGC) at UGC-HRDC, Punjabi University, Patiala (from 25-09-2017 to 14-10-2017 for 18 days).

**Dr P K Hota** participated and successfully completed in the International Winter School on "Organic Solar cells: Principle and Practices" (sponsored by GIAN and DST) at Department of Physics, NIT Calicut (from 02-11-2016 to 10-11-2016 for 9 days).

**Dr P K Hota** participated and successfully completed in the Orientation Course- OP-144, (sponsored by UGC) at UGC-HRDC, Aligarh Muslim University, Aligarh (from 01-02-2016 to 01-03-2016 for 30 days).

**Dr P K Hota** participated and successfully completed in the International Winter School on Frontiers in Materials Science at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore (from 7-12-2015 to 11-12-2015 for 5 days) and presented a poster entitled "Aryl and heterocyclic based donor-acceptor system- A plausible material for optoelectronic device application"

**Total Number of SCI peer reviewed publications: 35**

**Total Number of Conference Proceeding/Abstract publications: 40**

See detail on website-

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ORCID ID: <https://orcid.org/0000-0002-4057-1831>

Scopus Author ID: 6701739855;

Web of Science Research ID: J-4319-2019