**CURRICULUM VITAE**

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| **Assistant Professor** **Chemistry** Kashi Naresh Government P.G. CollegeGyanpur, Bhadohi 221304 | **Email:** niksinghnikhil32@gmail.com**Mobile:** +91-9670361151 |

**Dr. NIKHIL KUMAR SINGH**

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| **Personal Details** | **Citizenship:** Indian **Father’s Name:** Mr. Ajay Kumar Singh **Mother’s Name:** Mrs. Maya Singh**Permanent Address:** Vill+ Post – Bhainsa, District – Jaunpur – 222129 U. P., India |  |
| **Educational Qualifications** | **2016 - 2023** Banaras Hindu University, Varanasi, India **Ph.D.** – Chemistry**2014 - 2016** Banaras Hindu University, Varanasi, India **M.Sc.** – Chemistry Department of Chemistry, B.H.U., Varanasi  |
| **2011 - 2014** Banaras Hindu University, Varanasi, India **B.Sc.** – Physics, Chemistry (Hons.), and Mathematics |
| **Ph.D.** **Research Paper:** Published: 06 **Paper Presented in Conferences and Seminar:** International: 06; National: 10-**Selected as Assistant Professor in GDC (Gazetted Officer) by UKPSC in 2018.**  **-Selected as Assistant Professor in GDC (Gazetted Officer) by UPPSC in 2020.** |
| -**Qualified** –CSIR-JRF and upgraded to CSIR-SRF, GATE (AIR-128), IIT JAM 2014 |
| **Research & Teaching** | **Language Known:** Hindi, and English**Teaching Experience – (For UG & PG -06 Yrs)** |
| **Awards & Scholarship** | Awarded UGC NET (AIR-25) & CSIR JRF (AIR- 67) in Chemical SciencesGATE qualified with AIR-128 in ChemistryQualified IITJAM (Chemistry) |

 **Publications**

1. DNA/protein binding and anticancer activity of ruthenium (II) arene complexes based on quinoline dipyrrin. **Nikhil Kumar Singh**, Yogesh Kumar, Rajendra Prasad Paitandi, Rajan Kumar Tiwari, Ajay Kumar, Daya Shankar Pandey, **Inorganica Chim. Acta.,** 545, 121241, **2023**.
2. Ligand induced proton-coupled electron transfer in ruthenium(II) complexes improves hydrogen evolution activity, **Nikhil Kumar Singh**, Ajit Kumar Singh, Yogesh Kumar, Arindam Indra and Daya Shankar Pandey communicated in Dalton trans.
3. Solid state emissive azo-Schiff base ligands and their Zn(ii) complexes: acidochromism and photoswitching behavior, Yogesh Kumar, Vishwa Deepak Singh, Bhupendra Kumar Dwivedi, **Nikhil Kumar Singh** and Daya Shankar Pandey, **New J. Chem**, 45, 199-207, **2020**.
4. DNA/Protein binding and anticancer activity of Zn (II) complexes based on azo-Schiff base ligands. Yogesh Kumar, **Nikhil Kumar Singh**, Vishwa Deepak Singh, Irshad Ali, Rajan Kumar Tiwari, Ajay Kumar, Daya Shankar Pandey, **Inorganica Chim. Acta.,** 538**,** 120963**, 2022**.
5. AIE active quinazoline based probes for selective detection of Fe3+ and acidochromism. Yogesh Kumar, **Nikhil Kumar Singh**, Sujay Mukhopadhyay, Daya Shankar Pandey, **Inorganica Chim. Acta.,** 546**,** 121294**, 2023**.
6. Mononuclear vs. Binuclear Heteroleptic Ni(II) Dipyrrin Complexes for Electrochemical Proton Reduction Reactions: Cyclic Voltammetric and Theoretical Studies, Rajendra Prasad Paitandi, Indranil Mondal, Yogesh Kumar, **Nikhil Kumar Singh,** and Daya Shankar Pandey, **Eur. J. Inorg. Chem**., (Under Review).

**Seminar(s)/Symposium attended**

1. Emerging Trends in Chemical Sciences (NSETCS-2018) XVII November 17-18th, 2018, Department of Chemistry, Institute of Science, Banaras Hindu University.

 ***Poster Presentation:*** *Pyrazole appended quinoline-BODIPY based arene ruthenium complexes: their anticancer activity and potential applications in cellular imaging*

1. 24th CRSI National Symposium in Chemistry February 8-10th, 2019 CSIR- Central Leather Research Institute (CLRI) & Indian Institute of Technology Madras.

***Poster Presentation*:** *AIE active piperazine appended naphthalimide-BODIPYs: photophysical properties and applications in live cell lysosomal tracking*

1. Conference on Modern Trends in Inorganic Chemistry (MTIC-XVII) December 11-14th, 2018, Department of Chemistry IIT Guwahati,

***Poster Presentation:*** *DNA/protein binding and anticancer activity of ruthenium (II) arene complexes based on quinoline dipyrrin.*

# Contemporary Trends and Future Prospectus of Functional Materials (CTFM-2019) November 29-30th, 2019, Department of Chemistry, Institute of Science, Banaras Hindu University.

# *Poster Presentation*: *DNA/protein binding and anticancer activity of ruthenium (II) arene complexes based on quinoline dipyrrin*.

# Conference on Modern Trends in Inorganic Chemistry (MTIC-XVIII) December 15-17th, 2022, Department of Chemistry, Institute of Science, Banaras Hindu University.

# *Poster Presentation*: *DNA/protein binding and anticancer activity of ruthenium (II) arene complexes based on quinoline dipyrrin.*