

## CURRICULAM VITAE

**Dr. ANURAG KUMAR SINGH**

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### Personal details:

Father's Name	Mr. Brij Bihari Singh	Nationality	Indian
Mother's Name	Mrs. Usha Devi	Marital Status	Married
Date of Birth	16/12/1992		
Languages known	Hindi and English		

### Academic qualifications :

Exam	Year	University/Institution	Subject	% of marks
Ph.D.	2025	Banaras Hindu University	Chemistry	66.57%
B.Ed.	2018	Mahatma Gandhi Kashi Vidyapith, Varanasi		60.12%
M.Sc.	2015	University of Mumbai	Inorganic Chemistry	57.62%
B.Sc.	2012	Udai Pratap Autonomous College, Varanasi (MGKVP)	Physics, Chemistry, Math	52.33%
Higher Secondary	2009	Balmiki Inter College, Balua, Chandauli	Physics, Chemistry, Math, English, Hindi	75.80%
Secondary	2007	Jai Bajarang Inter College, Tarapur, Chandauli	Hindi, English, Math, Science, Social Science, Sanskrit	67%

### Awards & Achievements:

- ☒ Qualified UGC-CSIR NET (December 2017).
- ☒ UGC Non-NET Research Fellowship (Jan. 2021)
- ☒ Research Incentive grant under IoE scheme (2023, 2024)

### Area of interest:

Nano materials, Applications of Nano materials, Optical sensors, Synthesis of Organic compound

**Title of Thesis:** "Design and development of few silver and gold based plasmonic

nano probes for the detection and determination of cysteine, homocysteine, glutathione and metformin”.

### List of Publications:

1. A.K. Singh, R. Singh, M. Yadav, M. Sharma, I. Tiwari and K.K. Upadhyay\*, 2023, A rapid and sensitive colorimetric discrimination and detection of cysteine, homocysteine and glutathione by phloroglucinol-functionalized silver nanoresonators with real applications, *New Journal of Chemistry*, **47**, 10842-10848.
2. A.K. Singh, S. Singh, R. Singh, M. Sharma, I. Tiwari and K.K. Upadhyay\*, 2024, Glucosamine functionalized gold nanoparticles for specific detection and colorimetric assay of Glutathione from real samples, *New Journal of Chemistry*, 2024, **48**, 14354-14361.
3. R. Singh, A.K. Singh, M. Yadav, M. Sharma, I. Tiwari and K.K. Upadhyay, 2022, Naked-eye detection of cysteine/homocysteine through silver nano-resonators and specific identification of homocysteine through nanoresonator–thiosulphate conjugate, *New Journal of Chemistry*, **46**, 14328-14332.
4. D. Singh, R. Singh, A. Kumar, A.K. Singh, Yadav, M. and K.K. Upadhyay\*, 2021, Salicylazine activated plasmonic silver nanoprisms for identification of Fe (ii) and Fe (iii) from aqueous solutions, *New Journal of Chemistry*, **45**, 17782-17786.
5. R. Singh, M. Yadav, A.K. Singh, S.K. Mishra and K.K. Upadhyay\*, 2022, A low cost yet highly sensitive silver nanoprobe for naked eye detection and determination of bisulphate (HSO<sub>4</sub><sup>-</sup>) in a few real samples, *Inorg. Chem. Commun.*, **139**, 109366.
6. M. Yadav, R. Singh, A.K. Singh, M. Sharma, I. Tiwari and K.K. Upadhyay\*, 2023, colorimetric and SERS detection of H<sub>2</sub>S by D (±) Galactose functionalized truncated hexagonal bipyramidal silver nanoresonators, *Inorg. Chem. Commun.*, **156**, 111316.
7. S. Singh, R. Singh, A.K. Singh, M. Yadav, S. K. Mishra, J. Dixit, P. Verma, K. N. Tiwari and K.K. Upadhyay\*, 2023, 5-Amino uracil activated silver nano resonators for highly selective visual detection of dopamine and as an agonist towards BAP: Promoting shoot growth in *Bacopa monnieri* L, *Inorga. Chim. Acta*, **560**, 121812.

### Workshops, Seminars and Conferences:

1. National symposium on **Contemporary Trends and Future Prospect of Functional Materials (CTFM-2019)**, 29<sup>th</sup>–30<sup>th</sup> November, 2019 at Department of Chemistry, BHU. (Poster presented)
2. Workshop on **Electrochemistry Techniques**, 7<sup>th</sup> – 8<sup>th</sup> April, 2022 organized by SATHI, BHU.
3. International Conference of **Modern Trends in Inorganic Chemistry (MTIC-XIX)**, 15<sup>th</sup> -17<sup>th</sup> December, 2022 at Department of Chemistry, BHU. (Poster Presented)
4. National Symposium on **Brainstorming Meeting on Chemistry at the Interface (BSCI-2022)**, 26<sup>th</sup> – 27<sup>th</sup> December, 2022 at Department of Chemistry, BHU. (Poster Presented)

**Technical Skills:** Sound knowledge of molecules characterization by HRMS, IR, UV,

**Computer Skills:** Well versed with window-based operations Origine, MS-word, MS-excel, Power Point Presentation, Scifinder and chemistry related software's: CHEMDRAW, MESTERENOVA

**Declaration:**

I confirm that all the above stated particulars in this resume are true to the best of my knowledge and that I can provide documentary evidence to verify all the given information.

Place: Varanasi

Anurag kumar Singh

Date: August, 2024.