

# CURRICULUM VITAE

**Name – Dr. RESHMA**

Email ID: [reshmas049@gmail.com](mailto:reshmas049@gmail.com)

Contact No: 7987371212



## **CAREER OBJECTIVE:**

To seek better growth opportunities and challenging environment where I can make best use of my talent and professional knowledge.

## **EXPERIENCE:**

Four years research experience at School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur (C.G.)

Teaching experience Motion Education Pvt. Ltd. (PRAYAS/HAMAN-36) July 2019- March 2020

Guest Faculty at Dr. Radhabai Govt. Naveen Girls College, Raipur- 8 March 2021- 5 March 2022

Guest Faculty at Center For Basic Sciences, Pt. Ravishankar Shukla University, Raipur-7 April 2022- 15 June 2022 and 20 July 2023 to 15 June 2024

## **ACADEMIC PROFILE:**

QUALIFICATION	COLLEGE/ SCHOOL	UNIVERSITY/BOARD	YEAR	PERCENAGE
Ph.D.	Pt. Ravishankar Shukla University, Raipur(C.G.)	Pt. Ravishankar Shukla University, Raipur(C.G.)	Awarded 2020	
M.Sc. (Chemistry)	Bhilai Mahila Mahavidyalaya, Bhilai (C.G.)	Pt. Ravishankar shukla university, Raipur(C.G.)	2015	72.62%
B.Sc. (Industrial Microbiology)	Bhilai Mahila Mahavidyalaya, Bhilai (C.G.)	Pt. Ravishankar shukla university, Raipur(C.G.)	2013	66.22%
Intermediate	Sahu Sadan H. S. School, Bendri (C.G.)	Chhattisgarh Board, Raipur(C.G.)	2009	86.80%
S. S. C	Bhilai Nav Jeevan H. S. School Bhendra (C.G.)	Chhattisgarh Board, Raipur(C.G.)	2007	74.10%

## **PROFESSIONAL SKILLS:**

Computer Proficiency	Itizen course, MS office, C++, DOS, HTML
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### AREA OF INTEREST:

Research interest in nanomaterials, quantum dots, enzymes, proteins, drugs, heavy metals, surfactants and pesticides.

### MEMBERSHIP

1. Chemical Research Society of India (CRSI)                      Membership No. **LM2018**  
(Life Member)
2. Indian Science Congress Association                              Membership No. **A2071**  
(Annual Membership)    Section: Chemical Science
3. Indian Chemical Society    Membership No. **F/7894**  
(Annual Membership)

### OPERATING ON INSTRUMENTATION IN LABORATORY

1.	Fluorescence Spectrophotometer (Agilent Technology, Cary eclipse)	2.	UV-Vis Spectrophotometer (Digital)
3	UV-Visible Spectrophotometer (Varian Cary 50)	4.	Surface Tensiometer ( Jencon India)
5.	PH-Meter (Type-362)	6.	Digital Conductivity Meter (Type 304 and 306)
7.	Cyclic Voltammetry	8.	FTIR

### LIST OF PAPER PUBLISHED/COMMUNICATED IN INTERNATIONAL JOURNALS

1.	Spectroscopic Studies on <i>In Vitro</i> Molecular Interaction of Highly Fluorescent Carbon Dots with Different Serum Albumins <b>Reshma</b> , Sandeep K. Vaishnav, Indrapal Karbhal, Manmohan L. Satnami and Kallol K. Ghosh <i>Journal of Molecular Liquids</i> , <b>2018</b> , <b>255</b> , <b>279-287 IF 4.25</b>
2.	Facile and visual detection of Acetylcholinesterase Inhibitor by Carbon Dot-Based <b>Reshma</b> , Bhanushree Gupta, Rahul Sharma and Kallol K. Ghosh <i>New Journal of Chemistry</i> , <b>2019</b> , <b>43</b> , <b>9924-9933 IF 3.26</b>

3.	<p>Antidepressant Drug-Protein Interactions Studied by Spectroscopic Methods Based on Fluorescent Carbon Quantum Dots</p> <p><b>Reshma</b>, Sandeep K. Vaishnav, Toshikee Yadav, Srishti Sinha, Swapnil Tiwari, Manmohan L. Satnami and Kallol K. Ghosh</p> <p><i>Heliyon</i>, <b>2019,5, e01631, IF 1.67</b></p>
4.	<p>Interaction of Ionic Liquid with Silver Nanoparticles: Potential Application in Induced Structural Changes of Globular Proteins</p> <p>Manoj Kumar Banjare, Kamalakanta Behera, <b>Reshma</b>, Srishti Sharma, Ramesh Kumar Banjare, Siddharth Pandey and Kallol K. Ghosh</p> <p><i>ACS Sustainable Chemistry &amp; Engineering</i>, <b>2019, 7, 13, 11088-11100, IF-6.15</b></p>
5.	<p>An Imidazolium-based Ionic Liquid as Modulator of Physicochemical Properties of Cationic, Anionic, Nonionic and Gemini Surfactants,</p> <p>A. Kumar, M. K. Banjare, S. Sinha, T. Yadav, <b>Reshma</b>, M. L Satnami and K. K. Ghosh,</p> <p><i>J. Surfactants Deterg.</i>,<b>2018, 21, 355-366</b></p>
6.	<p>Interaction of Acid Functionalized Magnetic Ionic Liquid with Gemini Surfactants</p> <p>Reena Suryawanshi, Manoj Kumar Banjare, Kamalakanta Behera, <b>Reshma</b>, Srishti Sharma, Ramesh Kumar Banjare, Arijit Saha, Siddharth Pandey, Subhash Banerjee and Kallol K. Ghosh</p> <p><b>Journal of Solution Chemistry</b> Doi: 10.1007/s10953-020-00990-4</p>
7.	<p>An example of green surfactant systems based on inherently biodegradable IL-derived amphiphilic oximes</p> <p>Subhashree Jayesh Pandya, Illia Kapitanov, Zeba Usmani, <b>Reshma Sahu</b>, Deepak Sinha, Nicholas Gathergood and Kallol Kumar Ghosh</p> <p><b>Journal of Molecular Liquids</b>, <b>2020, 305:112857</b></p>
8.	<p>Spectroscopic Elucidation of Interaction between Ionic Liquid Functionalized Gold Nanoparticles and Human Serum Albumin</p> <p>Sushama Sahu, <b>Reshma Sahu</b>, Srishti Sharma, Indrapal Karbhal and Kallol K Ghosh</p> <p><b>RSC Advance (Accepted)</b></p>
9.	<p>Detection of flonicamid insecticide in vegetable samples by UV-Visible spectrophotometer and FTIR</p> <p>Deepak Kumar Sahu, J. Rai, M. Rai, Mamta, Nirmal, Kalpana Wani, <b>Reshma</b>, Manoj K.</p>

Banjare, Prashant Mundeja

**Results in Chemistry, 2020, 2:100059, Doi: 10.1016/j.rechem.2021.100059**

#### INTERNATIONAL / NATIONAL CONFERENCE

Oral Presentation	
1.	Attended and oral presented a paper entitled “ <b>Carbon Quantum Dots Nanosensors for Detection of Acetylcholinesterase Activity and Its Inhibitor</b> ” on 8 <sup>th</sup> European Chemistry Congress, 21 <sup>st</sup> – 23 <sup>rd</sup> June, 2018, at Paris, France
2.	Attended and oral presented a paper entitled ‘ <b>In – Vitro Interaction between Fluorescent Carbon Dots and Serum Albumins: A Spectroscopic Study</b> ’ on 53 <sup>rd</sup> annual convention of chemists-2016, Gitam University, Visakhapatnam, Dec. 27-29, <b>2016</b> , young scientist presentation.
3.	Attended and oral presented a paper entitled “ <b>Fluorescent Assay for the Detection of Acetylcholinesterase Activity Based on Carbon Quantum Dots and its Inhibitor Screening</b> ” on 16 <sup>th</sup> Chhattisgarh Young Scientist Award Govt. V.Y. PG. college, Durg.
4.	Attended and oral presented a paper entitled “ <b>Pencil Graphite Electrode as an Electrochemical Sensor for the Voltammetric and FTIR Determination of Antidepressant Drug in Human Blood and Urine Samples</b> ” on 17 <sup>th</sup> Chhattisgarh Young Scientist Award Pt. R.S. U. Raipur
Poster Presentation	
1.	Attended National Seminar on Green Chemistry, Bhilai Mahila Mahavidyalaya, Sec. 09 Bhilai (C.G.)
2.	Attended and presented a poster entitled “Drug-Protein Interaction” on National Science Day PRSU, Raipur, March 12, <b>2016</b> .
3.	Attended and Poster Presented a paper entitled “ <b>Molecular Spectroscopic Study on the Interaction of Antidepressant Drugs with Serum Albumins</b> ” on National Conference on Sustainable Development and Climate Change, Amity University, Gwalior ( M.P.), November, 18, <b>2016</b> .

4.	Attended and Poster Presented a paper entitled ‘ <b>Spectroscopic study of drug-protein interaction</b> ’ on UGC-SAP (DRS-II) National conference on Advances In Environmental & Chemical Sciences, PRSU, Raipur, March 17-18, <b>2017</b> .
5.	Attended and Poster Presented a paper entitled ‘ <b>Study on the Molecular Interaction between Carbon dots and Serum Albumins</b> ’ on 20 <sup>th</sup> CRSI-NSC Symposium, 2-5, February, <b>2017</b> , Department of Chemistry, Guwahati University, Guwahati-781014, Assam (India).
6.	Attended and Poster Presented a paper entitled ‘ <b>Fluorometric Assay for Acetylcholinesterase Activity and Inhibitor Screening with Fluorescent Carbon Dots</b> ’ on 22 <sup>nd</sup> CRSI-NSC Symposium, 2-4, February, <b>2018</b> , School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur (C.G.)
7.	Attended and Poster Presented a paper entitled ‘ <b>Synthesis and Detection of Tricyclic Drug based on Carbon quantum Dots</b> ’ on UGC-SAP (DRS-II) National conference on Advances In Environmental & Chemical Sciences, PRSU, Raipur, March 22-23, <b>2018</b> .  <b>(Best Poster Prize Award)</b>
8.	Attended and Poster Presented a paper entitled “ <b>Exploring the Interaction between Fluorescent Carbon Quantum Dots with Bovine Serum Albumins: A Spectroscopic Study</b> ” One Day conference 125 <sup>th</sup> S N Bose Birth celebration PRSU, Raipur, September 28 <sup>th</sup> , 2018
9.	Attended and Poster Presented a paper entitled ‘ <b>Probing the Interaction of Human Serum Albumin with Chlorpromazine in the Presence of Carbon Quantum Dots: A Multispectroscopic Investigation</b> ’ on UGC-SAP (DRS-II) 3 <sup>rd</sup> National conference on Advances In Environmental & Chemical Sciences, PRSU, Raipur, March 27-28, <b>2019</b> .
10.	Attended and oral presented a paper entitled ‘ <b>In – Vitro Interaction between Fluorescent Carbon Dots and Serum Albumins: A Spectroscopic Study</b> ’ on 55 <sup>th</sup> annual convention of chemists-2016, Pt. R.S. U. Raipur Nov. 14-16, <b>2019</b> , young scientist presentation.
11.	Attended and oral presented a paper entitled “ <b>Carbon Quantum Dots as a Fluorescence Nanoprobes for Determination of Chlorpromazine in Biological Fluids</b> ” on 21 <sup>st</sup> National Conference on Surfactant, Emulsions & Biocolloids (NATCOSEB- XXI), Pt. R.S. U. Raipur November 23-25, 2023.

<b>Teacher Training Programme</b>	
1.	Attended NEP 2020 Orientation and Sensitization programme under Malaviya Mission Teacher Training Programme (MM-TTP) organized by Malaviya Mission Teacher Training Centre, Pt. R.S. U. Raipur (C.G.) from 05.06.2024 to 14.06.2024.

**Strengths:**

- I follow “Plan before act” principle.
- Feasible to variant situations.
- Hard working and positive thinking.
- Posses leadership and also work as a team.

- Always intended to learn new things.

**Personal Details:**

Husband's Name	Mr. Yogendra Kumar Sahu
Father's Name	Mr. Sunil Kumar sahu
Mother's Name	Mrs. Lokeshwari sahu
Date of Birth	09/10/1992
Nationality	Indian
Gender	Female
Languages Known	Hindi, English
Phone No.	7987371212
Address	Plot No. 1/11, Harshit Nagar, Near Media City, Tatibandh, Raipur, 492099

**Declaration:**

I hereby declare that the above mentioned information is true to my knowledge and belief and I bear the responsibility for the correctness of the above mentioned particular.

Date:

Place: Raipur

**(RESHMA)**