

## **Curriculum Vitae**

Dr. Renuka R. Gonte

[renukagonte@gmail.com](mailto:renukagonte@gmail.com)

Mobile: 8669084456, 9822318816

### **Permanent Address**

Flat No.5, Building 1C/2,  
Siddharth Nagar Phase I,  
Aundh, Pune 411007.

### **ACADEMIC QUALIFICATIONS**

<b>Qualification</b>	<b>Board/ University</b>	<b>Year of Passing</b>	<b>Percent %</b>	<b>Class</b>
Ph.D (Chemistry)	Defence Institute of Advanced Technology, Ministry of Defence.	2013		
M.Sc. (Physical Chemistry)	UNIVERSITY OF PUNE (Department of Chemistry)	2005	61.03	First Class
B.Sc. (Chemistry)	UNIVERSITY OF PUNE (Sir Parshurambhau College)	2003	69.22	First Class
H.S.C (Science)	MAHARASHTRA BOARD (Sri Fattechand Jain Jr. College)	2000	62.33	First Class
S.S.C.	MAHARASHTRA BOARD (St. Andrews High School)	1998	71.33	First Class with Distinction

### **EXPERIENCE**

**1. Baburaoji Gholap College, Sangvi, Pune**

Assistant Professor

Duration: 01 year (Sept. 2021- May 2022)

Lecture and Practical for BSc. and MSc.

**2. Sir Parshurambhau College, Pune 411030**

Assistant Professor

Duration: 02 year (July 2016 – Jan 2018)

Lecture and Practical for BSc. and MSc.

**3. Dr. D. Y. Patil Arts, Commerce and Science College, Pimpri 411018**

Assistant Professor

Duration: 01 year (August 2015 – April 2016)

Lecture and Practical for MSc.

Presented the Department progress during NAAC visit (March 2016)

**4. Defence Institute of Advanced Technology (DIAT - DU) (Pune)**

Research Associate, (DRDO-DIAT Programme on Nano Materials)

Duration: 8 months (April 2013 – Jan 2014)

1) Adsorption chemistry of Hg(II), As(III), Th(IV) and U(VI) ions.

2) Experimentation, publications and guidance for PhD students.

5. **S.B.B alias Appasaheb Jedhe Art, Commerce and Science College. (Pune)**

Chemistry lecturer.

Duration: 1 year 4 months (October 2005 – February 2007)

- 1) Lectures and practical for Chemistry.
- 2) Internal Assessments and University exam supervision.

6. **College of Military Engineering (Pune)**

Lecturer (CHB)

Duration: 11 months (March 2006 – January 2007)

- 1) Lectures and practical for Applied Chemistry for Degree and Diploma course.
- 2) Internal and University paper setting and assessment.

## **PROJECTS**

1. **Post PhD (Research Associate)**

**Polymer composites for removal of Hg(II), As(III), U(VI) and Th(IV) ions.**

- Validation of adsorption process using mathematical models for full scale optimized batch process for nano Fe<sub>2</sub>O<sub>3</sub> impregnated cellulose acetate composites.

2. **PhD**

**Styrene-Maleic Acid Co-polymer Beads and Composites for Adsorption of Toxic Chemicals and Hydrogen**

- Synthesis of crosslinked styrene-maleic acid (SMA) copolymer beads and composites.
- Removal of toxic metal ions and dye molecules.
- Room temperature hydrogen storage using crosslinked SMA.

3. **MSc**

**Hydrogen bonding motif in 2-thioureidobenzoxazole**

- Hydrogen bonded interactions in [(C<sub>8</sub>H<sub>7</sub>N<sub>3</sub>OS)<sub>n</sub> = (2-thioureidobenzoxazole)<sub>n</sub>] (n=1-4) using ab initio Hartree-Fock calculations.
- Study on growth of supramolecular assemblies

## **RESEARCH PUBLICATIONS**

### **A] International Journal Publications**

1. Prashant Rule, Balasubramanian K., Renuka R. Gonte “**Uranium (VI) Remediation from Aqueous Environment using Impregnated Cellulose Beads.**” Journal of Environmental Radioactivity, 136, (2014), 22-29.
2. Renuka R. Gonte, Balasubramanian K., Jyothi Mumbrekar. “**Porous and crosslinked cellulose beads for toxic metal removal.**” Journal of Polymers, 2013, (2013), Article ID 309136.
3. Renuka R. Gonte, Balasubramanian K., Pramil C Deb. “**Hydrogen sorption on hypercrosslinked polymer decorated with metal organic frameworks.**” Journal of Polymers, 2013 (2013), Article ID 684584.

4. Renuka R. Gonte, Gauri Shelar, Balasubramanian K. **“Polymer Agro waste composites for removal of Congo Red dye from waste waters: Adsorption Isotherms and Kinetics.”** *Desalination and Water Treatment*. 52(40-42), (2014), 7797-9811.
5. Renuka R. Gonte, Balasubramanian K. **“Heavy and toxic metal uptake by mesoporous hypercrosslinked SMA beads: Isotherms and kinetics.”** *Journal of Saudi Chemical Society*, (2013) <http://dx.doi.org/10.1016/j.jscs.2013.04.003>.
6. Andarge Ayalew, R. R. Gonte, Balasubramanian K. **“Development of Polymer Composite Beads for Dye Adsorption.”** *International Journal of Green nanotechnology*, 4:4, (2012) 440-454.
7. Renuka R. Gonte, Balasubramanian K. **“Chemically modified Polymer beads for sorption of gold from waste gold solution.”** *Journal of Hazardous Materials*, 217-218, (2012), 447-451.
8. Renuka R Gonte, Balasubramanian K, Pramil C Deb, Pravin Singh. **“Synthesis and characterization of mesoporous hypercrosslinked poly (Styrene Co-Maleic Anhydride) microspheres.”** *International Journal of Polymeric Materials*, 61(12), (2012), 919-930.
9. Balasubramanian K, Renuka R Gonte, **“The Hydrogen solution?”**. *Materials World*. Dec 2011. Pp. 26-28.
10. Renuka R Gonte, Balasubramanian K, Pramil Deb. **“Adsorption properties of crosslinked mesoporous (styrene - maleic acid) - Zn (II) complexes”**. *International Journal of Industrial Engineering Technology*. 3(3), (2011) 279-288.

## **B) Patents**

1. **Materials and methods for synthesis of metals** [1614/MUM/2012]
2. **Selective Retrieval of Thorium (IV) and Uranium (VI) using eco-friendly Cellulose Composites** [2735/MUM/2013]

## **C) International Conference Publications:**

1. Renuka R Gonte, Balasubramanian K. **“Hollow Polymeric Structures- Synthesis and Function.”** *International Proceedings of “International Conference on Nano Engineering and Advanced Computing” (ICNEAC-2011)*, Vol. 1. Pp 253-258.
2. Renuka R Gonte, Balasubramanian K, Pramil Deb. **“Conducting Polymers for Industrial Applications.”** *International Proceedings of “International Conference on Nano Engineering and Advanced Computing” (ICNEAC-2011)*, Vol. 3. Pp 248-252.
3. Renuka R Gonte, Balasubramanian K, Pramil Deb. **“Synthesis and characterization of Metal Organic Frameworks.”** *International Proceedings of “International Conference on Nano Engineering and Advanced Computing” (ICNEAC-2011)*, Vol. 1. Pp 529-531.
4. Gauri Shelar, Renuka Gonte, Andarge Ayalew Hailu, Balasubramanian. K. **“Porous Biocomposite Beads of Saw Dust for Effluent Treatment.”** *International Proceedings of “International Conference on Nano Engineering and Advanced Computing” (ICNEAC-2011)*, Vol. 1. Pp 451-454.
5. Andarge Ayalew, Renuka R Gonte, Gauri Shelar, Balasubramanian K. **“Fabrication of porous Biocomposite of sugarcane Molasses for Heavy Metal Adsorption.”** *International Conference on Nano Engineering and Advanced Computing (ICNEA-2011)*.
6. Renuka R Gonte, Balasubramanian K. **“Uptake of Industrial Dyes Using Porous Polymers.”** *International Conference on Nano Engineering and Advanced Computing (ICNEA-2011)*.

7. Renuka R Gonte, Balasubramanian K. “**Microporous polymer beads for liquid hydrogen in fuel cell.**” *International Proceedings of “International Conference on Advanced Materials” (ICAM 2011)*, 12-16 Dec 2011.
8. Andarge Ayalew, Renuka R Gonte, Balasubramanian K. “**Simulation of chromium adsorption on polymer composite beads.**” *International Proceedings of “International Conference on Advanced Materials” (ICAM 2011)*, Pune, 12-16 Dec 2011.
9. Andarge Ayalew, Renuka R Gonte, Balasubramanian K. “**Development of Polymer composite Beads for Dye adsorption.**” *ICFMD-2012*, DIAT, Pune, May 2012.
10. Neeta Dhable, Gauri Shelar, Renuka R Gonte, Balasubramanian K. “**Cellulose Composites for Effluent Waste Water Treatment.**” *MAM-12*, Coimbatore, 21-25 Nov 2012.
11. Sachin Jadhav, Renuka Gonte, Balasubramanian K. “**Development of PVA Composites of Graphite for Strain Sensing.**” *International Symposium on Physics and Technology of Sensors*, 7-10 March 2012.
12. Tushar Sahetya, Fuhar Dixit, Renuka R. Gonte, Balasubramanian K. “**Green Synthesis of Nano Mercury from Waste Mercury Solutions.**” *International Workshop on Nanotechnology and Advanced Functional Materials, (NTAFM-2013)*, National Chemical Laboratory, Pune, 24-25 July 2013.

## **ACHIEVEMENTS**

- Certificate of Merit for Best Project Poster Presentation of M.Sc. Research Project

## **PERSONAL DETAILS**

Date of Birth : 16 January 1983  
Nationality : Indian  
Sex : Female  
Marital status : Married  
Husband’s name : Adv. Abhijit Rajendra Zirpe  
Father’s name : Rajeev Gonte  
Mother’s name : Suvarnalata Gonte  
Children : 01  
Language abilities : English, Marathi, Hindi

## **DECLARATION**

I hereby declare that the information given above is true to the best of my knowledge.

Place: PUNE

Dr. Renuka R. Gonte