

FACULTY PROFILE



Name- **Dr. RENU**
Designation- **Guest Faculty**
Qualification- **Ph.D., CG-SET**
Deartment- **Chemistry**
Institution-**Govt. Digvijay Autonomous College
Rajnandgaon (C.G.) India**
Email ID: renu25verma@gmail.com
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Career Objective

To seek a challenging position that would utilize my skills, knowledge and experience towards achieving organization goal.

Academic Qualification

Examination	Discipline/ Specialization	School/college	Board/ University	Year of Passing	%
Ph. D.	Chemistry	Govt. V.Y.T.P.G. Autonomous College, Durg	Pt. Ravishankar Sukla University Raipur	2018	-
Master of Science	Chemistry	Govt. V.Y.T.P.G. Autonomous College, Durg	Pt. Ravishankar Sukla University Raipur	2011	72.00
Bachelor of Science	Microbiology	Govt. College Utai	Pt. Ravishankar Sukla University Raipur	2009	67.67

Published Papers

1. **Renu Verma**, Anupama Asthana, Ajaya Kumar Singh, Surendra Prasad, An arginine functionalized magnetic nano-sorbent for simultaneous removal of three metal ions from water samples, **Royal Society of Chemistry Advances (SCI)**, **7 (2017) 51079-51089**, **Impact Factor 4.6**.
<https://pubs.rsc.org/en/content/articlelanding/2017/ra/c7ra09705k>

2. Anupama Asthana, **Renu Verma**, Ajaya Kumar Singh, Md. Abu Bin Hasan Susan, Glycine functionalized magnetic nanoparticle entrapped calcium alginate beads: A promising adsorbent for removal of Cu(II) ions, **Journal of Environmental Chemical Engineering (SCI) 4 (2016) 1985–1995, Impact factor 7.2.**
<https://www.sciencedirect.com/science/article/abs/pii/S2213343716301038>
3. **Renu Verma**, Anupama Asthana, Ajaya Kumar Singh, Surendra Prasad, Md. Abu Bin Hasan Susan, Novel glycine-functionalized magnetic nanoparticles entrapped calcium alginate beads for effective removal of lead. **Microchemical Journal, (SCI) 130 (2017) 168–178, Impact factor 5.1.**
<https://www.sciencedirect.com/science/article/abs/pii/S0026265X16301886>
4. Anupama Asthana, **Renu Verma**, Ajaya Kumar Singh, Sushil Chandra Tiwari, Md. Abu Bin Hasan Susan, Rameshwar Adhikari, Silver Nanoparticle Entrapped Calcium-alginate Beads for Adsorption Isotherm and Kinetic Studies for Fe(II) Removal, **Macromolecular Symposia, 366, 42–51 (2016) Impact factor 0.74.**
DOI:[10.1002/masy.201650045](https://doi.org/10.1002/masy.201650045)
5. Rupa Chakraborty, **Renu Verma**, Anupama Asthana, S. Sree. Vidya, Ajaya Kumar Singh, Adsorption of hazardous chromium (VI) ions from aqueous solutions using modified sawdust: kinetics, isotherm and thermodynamic modeling, **International Journal of Environmental Analytical Chemistry, (SCI) 911-928, (2021), Impact factor 2.6.**
<https://www.tandfonline.com/doi/abs/10.1080/03067319.2019.1673743>
6. Rupa Chakraborty, Anupama Asthana, Ajaya Kumar Singh, **Renu Verma**, Sree. Vidya Sankarasubramanian, Sushma Yadav, Sonia A. C. Carabineiro, Abu Bin Hasan Susan, Chicken feathers derived materials for the removal of chromium from aqueous solutions: kinetics, isotherms, thermodynamics and regeneration studies, **Journal of Dispersion Science and Technology, (SCI) 1-15, 2020. Impact factor 2.2.**
<https://ir.govtsciencecollegedurg.ac.in/IRDOCUMENT/103.pdf>

Paper presented in national/ international conferences

1. Paper presented (Oral) in **National Conference on AICON'14 All India Conference on Intelligent Systems, 25-26th April 2014, Durg (Chhattisgarh), India.** Highly effective adsorption of Pb(II) ions from aqueous solution by using modified magnetic nanoparticle entrapped calcium alginate beads: A Kinetic and thermodynamic studies.
2. Paper presented (Oral) in **National Conference on Innovation and Advancement in Chemical Science and Technology, 10-11th February 2015, Bhilai (Chhattisgarh), India.** Preparation of amino functionalized magnetic nanoparticle entrapped calcium alginate beads and its Ni(II) uptake studies.
3. Paper presented (Oral) in **International Conference on Status of Science & Technology in Chhattisgarh State, 19-20th March 2015, Bhilai (Chhattisgarh), India.** Removal of Co(II) ion from aqueous solution by glycine functionalized magnetic nanoparticles entrapped calcium alginate beads.
4. Paper presented (Oral) in **International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences (ICFM-2015), 5-7th February 2015,**

Nagpur, India. Novel amino-functionalized magnetic nanoparticles embedded polymer beads for selective adsorption for effective removal of Cu(II) ions from aqueous solution.

5. Paper presented (Oral) in **National Conference on 14th Chhattisgarh Young Scientist Congress, 28-29th February 2016, Bilaspur (Chhattisgarh), India.** Adsorption of Cu(II), Co(II) and Ni(II) ions by arginine functionalized magnetic nanoparticle entrapped chitosan beads.
6. Paper presented (Oral) in **International Conference on Recent Trends in science and Engineering, 15-16th January 2016, Durg, (Chhattisgarh), India.** Synthesis of arginine modified magnetic nanoparticles entrapped calcium alginate beads for removal of Cu(II) ions.
7. Paper presented (Oral) in **National Conference on 15th Chhattisgarh Young Scientist Congress, 28 February -1st March 2017, Bhilai (Chhattisgarh), India.** Copper removal from aqueous solution by adsorption onto arginine functionalized magnetic nanoparticles entrapped calcium alginate beads.
8. Paper presented (Oral) in **National Seminar on Advanced Material and Characterization, 26-27 August 2022 Raipur (Chhattisgarh) India.** Adsorption of Cu (II) ions by using lysine functionalized magnetic nanoparticles entrapped calcium alginate beads: Kinetic and thermodynamic studies.
9. Paper presented (Oral) in **International Conference on Advances in Multidisciplinary Research and Applications, 15-16 Jun 2023 on Bharti Vishwavidyalaya Durg (Chhattisgarh) India.** Removal of Pharmaceutical Pollutants from Surface Water by Different Adsorbents: A Review.

Achievement

I got 16th YOUNG SCIENTIST AWARD 2018, in the discipline of Chemical Engineering.

Leadership Skill

- **I was Secretary of my college in Govt. College Utai (Durg).**