

## Personal Profile



1. **Name** : Dr. Santosh Chikkamath
2. **Address** : A/P: Gandigawad,  
Tq: Khanapur, Dist: Belagavi  
591112, Belagavi, Karnataka, India
3. **PAN** :
4. **AADHAR** : **320828662307**
5. **Department** : P. G. Department of Chemistry
6. **Email** : santosh.s.chikkamath@gmail.com
7. **Education** : **Doctor of Philosophy in Chemistry (2021)**  
RANI CHANNAMMA UNIVERSITY,  
BELAGAVI, Karnataka, India. 591112

**Thesis Title:** “Investigation on Smectite Clay Minerals Relevant to Geological Waste Disposal”.

**Research Supervisor:** Prof. J Manjanna (From: April 2016 to April 2021)

**Degree Awarded:** April 2021

**Master of Science in Chemistry:** Department of Chemistry  
RANI CHANNAMMA UNIVERSITY, BELAGAVI, Karnataka, India. 591156 From:  
2012 to June 2014

**Bachelor of Education:** CTE Belagavi, Karnataka, India. From 2011-2012.

**Bachelor of Science (Physics, Chemistry and Mathematics)**  
KLE’s R. L. Science College, Belagavi, Belagavi, Karnataka, India.  
From: June 2007 to June 2010.

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|-----|---|---|---|
| 8.  | <b>Awards and Prizes</b>  | : | Nil   |
| 9.  | <b>Qualifying examination</b><br>(Applicable only for NET/SLET) | : | NIL-  |
| 10. | <b>Teaching experience</b>                                      | : | 01-   |
| 11. | <b>Administrative experience, if any</b>                        | : | NIL-  |
| 12. | <b>Academic Placements</b>                                      | : | NIL-  |
| 13. | <b>Specialisation</b>   | : | <b>General Chemistry</b>  |
| 14. | <b>Membership of professional bodies</b>                        | : | NIL-  |
| 15. | <b>Upgradation courses</b>                                      | : | NIL-  |
| 16. | <b>Soft skill/Life skill development Programs</b>               | : | NIL-  |
| 17. | <b>Technical training</b>                                       | : | NIL-  |
| 18. | <b>Paper publication</b>  | : | <ul style="list-style-type: none"> <li>a. <b>Chikkamath, S.</b>, Kar, A.S., Patel, M.A., Raut, V., Tomar, B.S., Manjanna, J. Sorption of Eu(III) on Fe–montmorillonite relevant to geological disposal of HLW. <i>Radiochim. Acta</i> 106 (2018) 971–983. <b>IF: 1.32</b></li> <li>b. <b>Chikkamath, S.</b>, Kar, A.S., Patel, M.A., Raut, V., Tomar, B.S., Manjanna, J. <sup>137</sup>Cs sorption on Fe(III)–Mt relevant to geological waste disposal of HLLW. <i>Radiochim. Acta</i> 107 (2019) 387–396. <b>IF: 1.32</b></li> <li>c. <b>Chikkamath, S.</b>, Patil, D., Kabadagi, A., Tripathi, V.S., Kar, A.S., Manjanna, J. Recovery of molybdenum by solvent extraction from simulated high level liquid waste. <i>J. Radioanal. Nucl. Chem.</i> 321 (2019) 1027-1034. <b>IF: 1.13</b></li> <li>d. Kabadagi, A., <b>Chikkamath, S.</b>, Manjanna, J., Kobayashi, S. In–situ complexation of o–phenanthroline in the interlayer of Fe(II)–montmorillonite. <i>Appl. Clay Sci.</i> 165 (2018) 148–154. <b>IF: 5.46</b></li> <li>e. Patil, D., <b>Chikkamath, S.</b>, Sangeeta, K., Tripathi, V.S., Manjanna, J. <u>Rapid dissolution and recovery of Li and Co from spent LiCoO<sub>2</sub> using mild organic acids under microwave irradiation.</u> <i>J. Environ. Mang.</i> 256, 109935. <b>IF: 6.56</b></li> <li>f. <b>Chikkamath, S.</b>, Manjanna, J., Kabadagi, A., Patil, D., Tripathi, V.S., Kar, A.S., Tomar, B.S., Gamma ray (<sup>60</sup>Co) irradiation and thermal effect on redox behavior of interlayer Fe in montmorillonite. <i>Applied Clay Science</i>, (2020) <a href="https://doi.org/10.1016/j.clay.2020.105893">https://doi.org/10.1016/j.clay.2020.105893</a>. <b>IF: 5.46</b></li> <li>g. <b>Chikkamath, S.</b>, Kar, A.S., Patel, M.A., Tomar, B.S., Manjanna, J., Sorption and surface complexation modeling of <sup>137</sup>Cs on Fe(II)–montmorillonite clay mineral relevant to nuclear waste disposal. <i>Radiochimica Acta</i> xxx (2020) in press. <b>IF: 1.32</b></li> </ul> |

- h. **Chikkamath, S.**, Kar, A.S., Patel, M.A., Raut, V., Tomar, B.S., Manjanna, J. Experimental and modelling studies on sorption behaviour of <sup>133</sup>Ba(II) on Fe-montmorillonite clay minerals. *Aquatic Geochemistry* (2020) <https://doi.org/10.1007/s10498-020-09389-5>. **IF: 2.9**
- i. A Kabadagi, **S Chikkamath**, S. Kobayashi & J Manjanna, Organo-modified Fe-montmorillonite as a solid acid catalyst for reduction of nitroarenes and Beginelli reactions. *Applied Clay Science* 189 (2020) 105518. **IF: 5.46**

**19. Paper Presentation :**

- 1 **S. Chikkamath**, D. Patil, A. Kabadagi & J. Manjanna. “Adsorption of Mo and Li on organo-modified Fe-montmorillonite in aqueous medium”. *Nano Engineering Science & Research Advances – 2019* (NESARA- 2019). **Poster presentation.**
- 2 A. Kabadagi, **S. Chikkamath**, D. Patil & J. Manjanna. “Organo-modified Fe-montmorillonite as a solid acid catalyst for the reaction of 4-nitro phenol”. *ib.id*
- 3 D. Patil, **S. Chikkamath**, A. Kabadagi & J. Manjanna. “Synthesis of PANI/pTSA-MWCN tubes nano composites and its applications in the removal of methylene blue dye from waste water”. *ib.id*
- 4 **S. Chikkamath**, A.S. Kar, M.A. Patel, V. Raut, B.S. Tomar & J. Manjanna. “Diffusion of Cs(I) and Na(I) on Fe(II)-montmorillonite”. *14th Biennial DAE BRNS symposium nuclear and radiochemistry (NUCAR-2019)*, January 15-19, 2019, BARC, Mumbai, **Oral presentation**
- 5 **S. Chikkamath**, A.S. Kar, M.A. Patel, V. Raut, B.S. Tomar & J. Manjanna. “Cs(I) sorption on Fe(II)-montmorillonite clay mineral”. *Int. Conf. on Advancement in Science & Technology (ACAST-2018) @ Vishwabharati, West Bengal. Sep 03-04, 2018. Poster presentation.*
- 6 **S. Chikkamath**, D. Patil, A. Kabadagi, V.S. Tripath & J. Manjanna. “Mo separation from simulated high level liquid waste using Organic solvents”. *ib.id*
- 7 **S. Chikkamath**, A.S. Kar, M.A. Patel, V. Raut, B.S. Tomar & J. Manjanna. “Cs(I) sorption studies on Fe-montmorillonite clay mineral”. *International conference on SESTEC, BRNS/DAE. (May 23-26, 2018). Poster presentation.*
- 8 **S. Chikkamath**, A.S. Kar, M.A. Patel, V. Raut, B.S. Tomar & J. Manjanna. “Eu(III) sorption studies on Fe-montmorillonite clay mineral”. *International Conference on Advances in Chemical Science, Shivaji Univ.Kolhapur (Feb 1-3, 2018). Oral Presentation.*
- 9 **S. Chikkamath**, A. Kabadagi & J. Manjanna. “The Studies on Fe(II)-montmorillonite clay mineral relevant to geological waste disposal”. *Int. Conf. on Science and Technology: Future Challenges and Solutions @ University of Mysore, Mysuru (Aug 8-9, 2016). Poster presentation.*
- 10 A. Kabadagi, **S. Chikkamath** & J. Manjanna, “Organo-modified montmorillonite through the in-situ complexation of interlayer cations by solid-state method”, *ib.id.*
- 11 DAE-BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes @ Rani Channamma University, Belagavi (Sept 19-24, 2016).

20. **Research Guidance** : -NIL-
21. **Other Publications** : -NIL-

<b>22. Book Publication</b>	:	-NIL-
<b>23. Resource Person</b>	:	-NIL-
<b>24. Organising conferences/ seminar/workshops</b>	:	-NIL-
<b>25. Editorial Activity</b>	:	-NIL-
<b>26. Consultancy</b>	:	-NIL-
<b>27. Curriculum Design</b>	:	-NIL-
<b>28. Evaluation Process</b>	:	-NIL-
<b>29. Committee membership</b>	:	-NIL-
<b>30. Conference participation</b>	:	

**1** *Nano Engineering Science & Research Advances – 2019* (NESARA- 2019), Bangalore.

**2** *14th Biennial DAE BRNS symposium nuclear and radiochemistry (NUCAR-2019)*, January 15-19, 2019, BARC, Mumbai.

**3** *Int. Conf. on Advancement in Science & Technology (ACAST-2018)* @ Vishwabharati, West Bengal. Sep 03-04, 2018.

**4** *International conference on SESTEC, BRNS/DAE. (May 23-26, 2018).*

**5** *International Conference on Advances in Chemical Science, Shivaji Univ.Kolhapur (Feb 1-3, 2018).*

**6** *Int. Conf. on Science and Technology: Future Challenges and Solutions @ University of Mysore, Mysuru (Aug 8-9, 2016).*

**7** DAE-BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes @ Rani Channamma University, Belagavi (Sept 19-24, 2016).

I, **Dr. Santosh Chikkamath**, currently working as a lecturer in P. G. Department of Chemistry, KLE's P.C. Jabin Science College, Hubballi. In near future, I would like to grow as an individual and will be focusing on educating students for their bright future. Furthermore, I would like to understand and implement the ideas in rapidly growing field of chemistry, nanotechnology and various interdisciplinary areas where I can apply my strong experimental and technical skills with the help of good collaboration.

(Dr. Santosh Chikkamath)

Head of the Department

Principal