

Curriculum Vitae

Objective

To work for an innovative and progressive organization where I can build on my career along with the company's progression. Seeking challenging position keeping abreast with the latest technology developments, where experience, professional contacts and outgoing personality will have valuable impact and will contribute to bottom line profit.

Name: Dr. DHANYA K.R

Nationality: Indian

Date of Birth: January -4- 1983. Place of Birth: Kaduthuruthy
Kerala, India.

Marital Status: Married

Permanent Address: Anamika, Kalathoor P.O, Kottayam (D.T), Kerala (State)
India. 686633.

Current Address: Anamika, Kalathoor P.O, Kottayam (D.T), Kerala (State)
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Career Objective

Research Scholar –Career life gives satisfaction throughout and ample scope to exhibit my skill and to be known as thorough professional.

Educational Qualifications

1. Post-doctoral student at School of Chemical Sciences, Mahatma Gandhi University from 2016 (under the guidance of Prof. Sabu Thomas, Pr-Vice Chancellor & Founded Director, IIUCNN, MG University).
2. Doctoral Student in Polymer Chemistry, Department of Chemistry, St Thomas College, Pala, Kottayam, Kerala, India (Completed-December 2013).
3. Pre-doctoral Student (M Phil) Chemistry at Bharathidasan University, Trichy, India (Completed-February 2007-(81%).
4. M.Sc. Chemistry, Deva Matha College, Kuravilangad, Kottayam, Kerala, India. (Completed -2005 March-70%).
5. B.Sc. Chemistry, B.K College Amalagiri, Kottayam Kerala, India. (Completed -2003 March-75%).
6. Plus Two Science, GGHSS , nedumangadu, Thiruvananthapuram, completed-2000)
7. SSLC, GGHSS , nedumangadu, Thiruvananthapuram, completed-1998)

Brief Achievements

- ☒ One of my research papers was presented at **Technical University Darmstadt, Germany** on August 2010.
- ☒ One of the papers published in **178 Technical Meeting, Rubber division, ACS.**
- ☒ Published another paper in **36th International Symposium on Environmental Analytical Chemistry (ISEAC 35)**, October 2010, 5- 9, **Rome.**
- ☒ **BEST POSTER AWARD - CHEMFERENCE'09, Annual Research Symposium, Department of Chemical Engineering, IIT, Chennai.** August 22nd-23rd 2009.

Awards and Distinctions

BEST POSTER AWARD - CHEMFERENCE'09 Annual Research Symposium, Department of Chemical Engineering, IIT, Chennai. August 22nd-23rd 2009.

Membership in Societies

Member of American Chemical Society (ACS), Nature, AAAS

Skills and Experience

1. **5 years** of experience in Polymer synthesis, characterization studies, swelling & water purification and photodegradation.
2. More than **3 years** of experience in teaching (M Sc Chemistry) at Deva Matha College .
3. **Supervised MSc Projects = 3**
B Tech Projects. = 1
Ongoing MSc Projects = 3

Research Funding Project

Project: UGC Major Research Project in 2007 and reference number is U.O No. 5796/Ac. A VI/2010/Acad. – Worked as a **project fellow** from 2007 to 2012.

Research Experience

PDF WORK: Photo-catalytic degradation of dyes using nanocomposites and dye adsorption using polymeric hydrogels.

PhD Work: Remediation of waste-water containing hazardous dyes using polymeric hydrogels

Summary:

Hazardous dyes Malachite Green and Brilliant Blue G in water makes serious health hazards to humans. 5-20 mol% HDODA-, NNMBA- and TTEGDA-crosslinked acrylic acid-N-vinyl pyrrolidone polymers were suitable for the removal from aqueous solution. From the binding studies, remarkable results were obtained. Characterization techniques like FT-IR, UV, ¹³C NMR, SEM etc were carried out.

M Phil Dissertation: Synthesis and Structural Characterization of Schiff Bases

Summary: Synthesized a new class of Schiff bases and characterized by spectral techniques.

MSc Dissertation: Effect of Counter Ion of Lauric Acid on Chemical Stability of Concentrated Natural Rubber Latex

Summary: Chemical Stability of Concentrated Natural Rubber Latex was determined by various techniques.

Publications:

Journal Publications

1. Brilliant Blue G-Hazardous dye removal from water, **Dhanya K.R** & Gigimol M.G, *Int. J. Polymers and Tech*, February 2011, Vol.3, No.2, p. 93-96.
2. Polymeric hydrogel as an efficient adsorbent for the removal of Malachite Green from water, **Dhanya K.R** & Gigimol M.G, *Alfomine, An international Journal, Part A- Sciences*, November 2011, Vol. 1, No.1,p.78-85.
3. TTEGDA-crosslinked acrylicacid-N-vinylpyrrolidone copolymeric hydrogels in water purification studies, **Dhanya K.R** & Gigimol M G, Peer Refereed Quaterly Interdisciplinary Research Journal, *Research Scholar*, March 2012, Vol II, No. I -A
4. Polymeric hydrogels in water purification studies, **Dhanya K.R** & Gigimol M.G, *Learning and Application*, Published by University of Malaya, Department of Indian Studies, P 411-418, 2012.
5. Hazardous dye removal and waste water treatment with the aid of hydrogels, **Dhanya K.R** & Gigimol M.G, *AUROLE, A Journal of Multidisciplinary Studies and Research*, Vol V, pp 67-72, 2013.
6. Synthesis of new materials in water purification studies, **Dhanya K.R** & Gigimol M.G, *STARS: Int.Journal (Sciences)* 2015,ISSN 0973-7804, Vol.5. No.1, pp.13-17.
7. Impact of polymeric hydrogels in water purification, **Dhanya K.R** & Gigimol M.G, *Alfomine, An international Journal, Part B- Sciences, February 2017, Vol. 2, No. 17-22.*

Papers Published in International Conference/Seminar

1. **Dhanya K.R**, Gigimol M.G & Beena Mathew, Synthesis and characterization of crosslinked poly-N-vinylpyrrolidone and binding of Rose Bengal by poly-N-vinylpyrrolidone, *International Conference on Functional Polymers*, Jan **2011**, 28-30, NIT Calicut.
2. **Dhanya K.R**, Gigimol M.G & Beena Mathew, Treatment of wastewater by using TTEGDA-crosslinked acrylicacid-N-vinyl pyrrolidone copolymeric hydrogel, *International Conference on Functional Polymers*, Jan **2011**, 28-30, NIT Calicut.
3. **Dhanya K.R**, Gigimol M.G & Beena Mathew, Role of polymeric hydrogels in the environment, 178 Technical Meeting, *Rubber division, ACS* , 12 -14, October 2010, Milwaukee, WI, USA (Online).
4. **Dhanya K.R**, Gigimol M.G & Beena Mathew Hazardous dye removal by polymeric hydrogel, *36th International Symposium on Environmental Analytical Chemistry (ISEAC*

- 35), October **2010**,5- 9, Rome (Online).
5. **Dhanya K.R** & Gigimol M.G, Processing and characterization of polymeric hydrogels and removal of hazardous dye Malachite Green from water, *Materials Science and Engineering*, MSE-Congress (International Conference) August **2010**, Technical University Darmstadt, Germany.
 6. **Dhanya K.R**, Gigimol M.G & Beena Mathew Significance of polymeric hydrogels for the removal of hazardous dye Malachite Green from water, *2nd International Conference on Polymer Processing & Characterization*, January **2010**, 15-17, Mahatma Gandhi University, Kottayam.
 7. **Dhanya K.R**, Gigimol M.G & Beena Mathew, Malachite Green-Hazardous Dye Removal From Water Using Polymeric Hydrogels, *International conference on Nanomaterials and their applications*, December **2009**, 18-19, Central College, Bangalore.
 8. **Dhanya K.R** & Gigimol M.G, Purification of Waste Water & Characterization Techniques, "The International Conference on Advanced Materials and its Applications", (ICAMA 2014), March 26-28, 2014.

Papers Published in National Conferences / Seminars

1. **Dhanya K.R** & Gigimol M.G, 'Applications of Co polymeric Hydrogels in Purification of Wastewater'. *Explorations*, Vol 5(2) 2013. **ISSN 2229-4783 Proceedings of National Seminar on Environmental conservation and Sustainable Living, Pg 30-32, **2013**.**
2. **Dhanya K.R** & Gigimol M.G, 'Environmental conservation by using HDODA-Crosslinked Acrylic acid-N-vinyl pyrrolidone Co-polymeric Hydrogels in Water Purification Treatment', *Proceedings on National Seminar on Green Chemistry and Environmental Conservation*, Pg-42-46, **2013**.
3. **Dhanya K.R** & Gigimol M.G, Applications of TTEGDA-crosslinked acrylic acid-N-vinylpyrrolidone copolymeric hydrogel, *National Conference on Modern Trends in Organic Chemistry (MTROC-2012)*, February 23-24 **2012**, Dept. of Chemistry, Baselius College, Kottayam.
4. **Dhanya K.R** & Gigimol M.G, Impact of polymeric hydrogels on water purification, *National Seminar on Green Chemistry-The Ultimate Tool for Pollution Control*. 14-15 February **2012**, Dept of Chemistry, Assumption College, Changanacherry.
5. **Dhanya K.R** & Gigimol M.G Water pollution and purification studies by using copolymeric hydrogels, *National Conference on Current Trends in Chemistry*, Dept of chemistry, December **2010**, 2-3, School of Chemical Science, Bharathiyar University, Coimbatore.
6. **Dhanya K.R**, Gigimol M.G & Beena Mathew Rose Bengal Bound NNMBA-crosslinked aminopolyacrylamide as polymeric photosensitizer, *National Conference on Current Trends in Chemistry NCCTC-10*, December **2010**, 2-3, Bharatiar University, Coimbatore.

7. **Dhanya K.R**, Gigimol M.G & Beena Mathew Photooxidizing ability of NNMBA-crosslinked aminopolyacrylamide, National Conference on current trends in Chemistry, NCCTC-10., December **2010**, 2-3, Bharathiar University, Coimbatore.
8. **Dhanya K.R** & Gigimol M.G Influence of polymeric hydrogels in Green Chemistry, *National Seminar on Green Chemistry*, July **2010**, 16-17, Alphonsa College, Pala, p.55-60.
9. **Dhanya K.R** & Gigimol M.G Copolymeric hydrogel for the removal of the hazardous dye malachite green from water, *National Conference on Advances in Nanoscience & Technology, NANOSAT-10*, April **2010**, 22-23, Amal Jyothy College of Engineering, Kanjirappally, Kottayam.
10. **Dhanya K.R**, Gigimol M.G & Beena Mathew Adsorption of Rose Bengal by crosslinked Poly (N-vinylpyrrolidone), *97th Indian Science Congress*, January **2010**, 13-17, Thiruvananthapuram, University of Kerala, p. 60, (Poster Presentation).
11. **Dhanya K.R** & Gigimol M.G Hazardous dye removal using polymeric hydrogels; *22nd Kerala Science Congress*, January **2010**, 28-31, Kerala Forest Research Institute, Peechi.
12. **Dhanya K R**, Gigimol M g & Beena Mathew, Purification of industrially caused wastewater by acrylicacid-N-vinyl pyrrolidone copolymeric hydrogel, National Seminar on Chemistry and Biochemistry, December 2009, 2-4, Thyagarajar College of Engineering, Maduari (poster Presentation).
13. **Dhanya K.R**, Gigimol M.G & Beena Mathew Purification of industrially caused wastewater by N-vinyl pyrrolidone-copolymeric hydrogel for the removal of hazardous dye Brilliant Blue G from water, *National Workshop/Seminar on the Chemistry of Nanomaterials-Synthesis, Properties & Applications*, November **2009**, 6-7, Andhra Christian College, Guntur (Poster Presentation).
14. **Dhanya K.R**, & Gigimol M.G Importance of HDODA-crosslinked acrylicacid-N-vinylpyrrolidone-copolymeric hydrogel for the removal of the hazardous dye Malachite Green from water, *CHEMREFERENCE'09, Annual Research Symposium, Department of Chemical Engineering*, August **2009**, 22-23, IIT, Chennai, (**Got Best Poster Presentation Award**).
15. **Dhanya K.R**, R.L .Jose, Gigimol M.G & B. Mathew , Kinetics of Adsorption of the Hazardous Dye Brilliant Blue G from aqueous solution, *7th National Conference on Advances in Physical and Theoretical Chemistry*, March 2009, 19-20, University of Calicut (Poster Presentation).
16. **Dhanya K.R**, Gigimol M.G & R.L. Jose Adsorption of Acid Black 194 from aqueous solution, *7th National Conference on advances in Physical and Theoretical Chemistry*, March **2009**, 19-20, University of Calicut, (Poster

Presentation).

17. Dhanya K R, B Mathew & Gigimol M G, Effective polymeric hydrogel as the adsorbent for the removal of Malachite Green from aqueous solution, National Conference on Novel Polymeric Material, January 2009, 21-22, Stella Maris College, Chennai.
18. Dhanya K R, B Mathew & Gigimol M G, Role of 5 mol % NNMBA-crosslinked acrylicacid-N-vinylpyrrolidone copolymeric hydrogel for the removal of hazardous dye Malachite Green from water, 7th National Seminar on Recent Trends in Organic Chemistry, January 2009,16-18.
19. Dhanya K R, B Mathew & Gigimol M G, Remoavl of hazardous dye Malachite Green from polluted water, National Seminar on New Frontiers in Chemistry, January 2009,8-9, Auxilium College, Vellore.
20. Dhanya K R, B Mathew & Gigimol M G, Novel polymeric hydrogel for the removal of hazardous dye Malachite Green from aqueous solution, 7th National Semianr on current Advances in Chemiacal Science, November 2008, 26-27, S H College, Thevara.

Referees

1. Prof. Dr. Sabu Thomas (Pro Vice- Chancellor & Professor, Mahatma Gandhi University, Kottayam)

IIUCNN, Mahatma Gandhi University, Kottayam, Kerala, India.
e-mail : sabupolymer@yahoo.com, sabuthomas@mgu.ac.in,
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2. Prof. Dr. Beena Mathew

Director, School of Chemical Science, Mahathma Gandhi University, Kottayam,
Kerala, India. e-mail: beenamj@yahoo.com

3. Dr. Gigimol M.G

Asst. Prof, Dept of Chemistry, Alphonsa College, Pala, Kottayam, India. E-mail:
mggigi2009@gmail.com

Declaration

I hereby declare that all the details furnished above about me are true to best of my knowledge and belief.



Dhanya K.R