Dr. AMANULLAKHAN A. PATHAN

M.Sc., Ph.D. (Chemistry)

• GSET-2018

Moti Patel Street, Near Masjid,

Vallabhipur-364310,

Dist.: Bhavnagar (Gujarat)

E-Mail:- amankhan255@gmail.com/

amankhan255@hngu.ac.in

ORCID iD: https://orcid.org/0000-0002-4941-4525

Contact-8530922102 / 7016458868

***** CAREER OBJECTIVE

To be a part of the organization that gives me the scope to enhance **knowledge**, **professional and Research skill** amongst students with extreme determination, dedication, and hard work.

SCHOLASTICS

Ph.D. in Chemistry (Full Time) with JRF (MANF Fellowship):

(Guide Name: - Prof. C. P. Bhasin, Department of Chemistry, H.N.G. University, Patan)

Title of Thesis: "USE OF NANOTECHNOLOGY FOR REMOVAL OF DYES FROM AQUEOUS SOLUTIONS" Department of Chemistry, Hemchandracharya North Gujarat University, Patan-384265 Subject Area- **Nanoscience.**

M.Sc. in Organic Chemistry

Department of Chemistry, Bhavnagar University 2011-2013 68% **B.Sc. in Chemistry**

Sir P. P. Institute of Science, Bhavnagar University 2008-2011 **60%**

❖ WORK EXPERIENCE: (Total Teaching Experience: - 7 years)

1. Assistant Professor

Shri Sarvajanik Science College (PG), Mehsana-384001 03/11/2020 to Present

2. Teaching Assistant

Department of Chemistry H.N.G. University, Patan-384265 01/09/2019 to 24/04/2020 and 31/08/2020 to 02/11/2020

3. Remedial Lecturer

Department of Chemistry H.N.G. University, Patan-384265

01/03/2015 to 01/06/2018

4. Excel Crop Care Ltd. (R & D Chemist)

Ruvapari road, Bhavnagar- 364001 01/08/2013 to 14/01/2015

❖ PUBLICATIONS:

- 1. Amanullakhan A. Pathan, Kavita R. Desai and C.P. Bhasin, "Improved Photocatalytic Properties of NiS Nanocomposites prepared by Displacement Method for Removal of Rose Bengal Dye", *Current nanomaterials* (Bentham Science), 2(3), (2018).
- 2. **Amanullakhan A. Pathan**, Kavita R. Desai, Shailesh Vajapara and C.P. Bhasin, "Conditional Optimization of Solution Combustion synthesis for pioneered La₂O₃ nanostructures to Application as Future CMOS and NVMs generations", *Advances in nanoparticles* (SCIRP), 7, (2018), 28-35.
- 3. **Amanullakhan A. Pathan**, Kavita R. Desai and C.P. Bhasin, "Synthesis of La₂O₃ Nanoparticles using Glutaric acid and Propylene glycol for Future CMOS Applications", *Int. J. Nano. Chem.*, 3(2), (2017), 1-9.
- 4. Jayadeep Tejani, Rahul Shah, Hiral Vaghela, Trupti Kukadiya and **Amanullakhan A. Pathan**, "Conditional Optimization of Displacement Synthesis for Pioneered ZnS Nanostructures", *J. Nanotech Adv. Mater*, 6 (1), (2018), 1-7.
- 5. Jayadeep Tejani, Rahul Shah, Hiral Vaghela, Shailesh Vajapara and **Amanullakhan A. Pathan**, "Controlled Synthesis and Characterization of Lanthanum Nanorods", *International Journal of Thin Films Science and Technology*, 9(2), (2020), 119-125.
- 6. Kavita R. Desai, **Amanullakhan A. Pathan** and C.P. Bhasin, "Synthesis, Characterization of Cadmium Sulphide nanoparticles and its Application as Photocatalytic degradation of Congored", *int. J. Nano. Chem.*, 3(2), (2017), 21-25.
- 7. Rahul Shah, **Amanullakhan Pathan**, Hiral Vaghela, S. C. Ameta And Kokila Parmar, "Green Synthesis and Characterization of Copper Nanoparticles Using Mixture (Zingiber officinale, Piper nigrum and Piper longum) Extract and its Antimicrobial Activity", *Chemical Science Transactions*, 7(4), (2019).
- 8. Jyotindra Mahyavanshi, Maharshi Shukla, **Amanullakhan Pathan**, Rahul Shah and Jayesh Jadhav, "Synthesis, Structural Elucidation and Anti-Microbial Screening of Benzimidazole Incorporated S-Triazinyl Derivatives", *Chemical Science Transactions*, 6(2), (2017), 235-242.
- 9. Hiral Vaghela, Kokila A. Parmar, **Amanullakhan Pathan**, Kavita Desai, Jayesh Jadhav and Rahul Shah, "Synthesis of Biogenic Silver Nanoparticles from Medicinal Plant and It's Antibacterial Activity", *IOSR Journal of Applied Chemistry (IOSR-JAC)*, 9, (2016), 29-33.
- 10. Hiral Vaghela, Rahul Shah and **Amanullakhan Pathan**, "Palladium Nanoparticles Mediated through Bauhinia variegata: Potent In vitro Anticancer Activity Against MCF-7 Cell Lines and Antimicrobial Assay", *Current nanomaterials* (Bentham Science), 3, (2018), 168-177.
- 11. Rahul Shah, Hiral Vaghela and **Amanullakhan Pathan**, "Synthesis and Characterization of Biogenic Gold Nanoparticles Using Aegle marmelos Extracts: Antibacterial Assay", *Biosc.Biotech.Research Communication* 13 (1), (2020) 307-312.

- 12. Hiral Vaghela, Rahul Shah, Shailesh Vajapara and **Amanullakhan Pathan**, "Biosynthesized Silver Nanoparticles Using an Aqueous Root Extract of Iris germanica as a Reducing Agent and Its Antibacterial Efficacy", *European Journal of Medicinal Plants 31 (7), (2020), 1-10.*
- 13. Chetan Prajapati, **Amanullakhan Pathan** and C.P. Bhasin, "Synthesis, Characterization and Biological Screening of Alkylene Dithiophosphate Derivatives of Macrocyclic Complexes of Pb (II)", *Journal of Pharmaceuticals Research International* 33 (50B), (2021), 104-112.
- 14. Amanullakhan Pathan, Sandip H. Bhatt, Shailesh Vajapara and C. P. Bhasin, "Solar Light Induced Photo Catalytic Properties of α -Fe₂O₃ Nanoparticles for Degradation of Methylene Blue Dye", *Int. J. Thin. Film. Sci. Tec.* 11(2), (2022), 213-224.
- 15. Amanullakhan Pathan, Chetan G. Prajapati, Riddhi P. Dave and C. P. Bhasin, "Effective and Feasible Photocatalytic Degradation of Janus Green B dye in Aqueous Media using PbS/CTAB Nanocomposites", Int. J. Thin. Film. Sci. Tec. 11(2), (2022), 245-255.
- 16. Rehana Baiju Mampilly, **Amanullakhan Pathan**, Chetan G. Prajapati and C.P. Bhasin, "Iron Capped Spent Tea Leaves as Nano-Adsorbent for Removal of Eriochrome Black T from Aqueous Phase", *Asian Journal of Chemistry* 34 (7), (2022), 1814-1820.
- 17. Shailesh Vajapara, **Amanullakhan Pathan** and C.P. Bhasin, "Adsorption and Photocatalytic Performance of Activated Carbon and Activated Carbon-La₂O₃ nanoparticles Composites for Malachite Green", *Int. J. Thin. Film. Sci. Tec.* 12(1), (2023), 21-37.
- 18. Rehana Baiju Mampilly, **Amanullakhan Pathan** and C.P. Bhasin, "Visible Light-Assisted Degradation of Malachite Green dye using Waste Tea-Mediated Zinc Nanoparticles", *Int. J. Thin. Film. Sci. Tec.* 12(1), (2023), 39-51.
- 19. R. V. Patel, **Amanullakhan A. Pathan** and C. P. Bhasin, "An Evaluation of Carbon Nanotube-Based and Activated Carbon-Based Nanocomposites for Fluoride and other pollutant Removal from water: A Review", Current nanomaterials 8(4), 2023.
- 20. Tanvi Nayak and **Amanullakhan A. Pathan,** "Environmental Remediation and Application of Carbon-based Nanomaterials in the Treatment of Heavy Metal-Contaminated Water: A Review", Materials Today: Proceedings (Elsevier), 2023, (Accepted).

*]	 List of research paper presented (oral or poster) in Conferences: 				
No.	Title of Research Paper	Date	Name of conference	Place	Remarks
1	"Synthesis, Characterization and Application of Cadmium Sulfide Nanostructures as Hydrogen Sulfide Sensing Agent"	7-10 Dec. 2015	International Conference on Nanomaterials And Nanotechnology	Tiruchengode (Chennai)	International
2	"Photo degradation of some dyes using Nanotechnology: A Review"	21 March 2015	State conference on One Day State Level Seminar, Curriculum Conclave-2015 & CTA Meet (SLS-CC- CTA)	Patan	State
3	"Cadmium sulfide nanostructures as hydrogen Sulfide sensing agent"	6-7 Feb. 2016	State conference on Challenges For science And Technology Education During Coming Decades: Preparing For A Sustainable Gujarat	K.S.K.V Kachchh University, Bhuj	National
4	"Synthesis of La ₂ O ₃ nanoparticles using Glutaric acid and Propylene glycol for future CMOS applications"	22-24 Dec 2016	35th Annual National conference on "Indian Council of Chemists (ICC-16)	H.V. Desai College, Pune	National
5	"Synthesis, Characterization of La_2O_3 nanoparticles and their applications as CMOS"	10-12 Feb 2017	International conference on Nanostructures Materials and Nanocomposites (ICNM-2017)	Mahatma Gandhi University, Kottayam, (Kerala)	International
6	"Improved Photocatalytic properties of NiS Nanocomposites prepared by Displacement Method for degrading Rose Bengal"	26-28 Dec 2017	36 th Annual National conference on Indian Council of Chemists (ICC-17)	School of Chemistry, Andhra University, Visakhapatnam (Andhra Pradesh)	National
7	"Improved Photocatalytic properties of PbS Nanocomposites For removal of Janus green B Dye from waste water"	3-5 July 2019	Indo-UK Workshop	Panjab university Chandigarh & University of Hull, UK	International
8	"Photocatalytic properties of PbS Nanocomposites prepared by Displacement Method For removal of Janus green B Dye from waste water"	14-16 Nov 2019	56 th Annual Convention of Chemists & International Conference on Recent Trends in Chemical Sciences	School of studies in Chemistry, Pt. Ravi Shankar Shukla University, Raipur, Chhattisgarh.	International

9	"Low-cost Synthesis of	27-29 Dec	41 st Annual	Department of	National
	Waste Tea-Mediated CuO	2022	National	Chemistry, Institute	
	Nanoparticles for Visible-		conference on	of Basic Sciences,	
	Light Driven Photocatalytic		Indian Council of	Khandari, Dr.	
	Degradation of Rhodamine B		Chemists	Bhimrao Ambedkar	
	Dye"		(ICC-2023)	University, Agra.	

List of Attended Conference / Workshop		
International	National	
2	25	

REFERENCES

Prof. C.P. Bhasin

Department of Chemistry H.N.G. University Patan-384265 Gujarat- INDIA

Mail: - cpbhasin@yahoo.in

Mob: +91 9825841417

Prof. K.A. Parmar

Department of Chemistry H.N.G. University Patan-384265 Gujarat- INDIA

Mail: - drkap_chem@yahoo.com Mob: +91 9979250821

Dr. Bhavesh R. Shah

Head of Department

(R&D Lab) Excel Crop Care Ltd. Bhavnagar-364001

Gujarat- INDIA

Mob: - +91 9427217867

AFFIRMATION

I hereby declare that all the given details of the curriculum are fair and true as per best of my knowledge.

(Amanullakhan A. Pathan)