

## CURRICULUM VITAE

### Dr. ALTAF AHMED

(M.Sc., M. Phil, Ph. D., NET-JRF)

**Assistant Professor**

**Department of Chemistry**

**Govt. Gandhi Memorial Science**

**College Jammu-180001**

**Jammu and Kashmir, India**



E-mail: [altaf.chem88@gmail.com](mailto:altaf.chem88@gmail.com)

Mobile: +91-9906750503, 7006948137

### EDUCATIONAL QUALIFICATIONS

Examination	University/ Board	Year of Passing	Div./Grade	Subject
Ph. D. <sup>*1</sup>	Jammu Univ.	2020	Awarded	Bio-inorganic/ Material Chemistry (Por-GO Nanocomposite)
M. Phil. <sup>*2</sup>	Jammu Univ.	2013	“A” Grade	Bio-inorganic Chemistry
M.Sc.	Jammu Univ.	2011	1 <sup>st</sup> Div.	Chemistry (Inorganic Chemistry)
B.Sc.	Jammu Univ.	2009	1 <sup>st</sup> Div.	Gen. Eng, Botany, Zoology, Chem.
12 <sup>th</sup>	JKBOSE	2006	1 <sup>st</sup> Div.	Biology, Chemistry, Physics, English
10 <sup>th</sup>	JKBOSE	2004	Distinction	English, Maths, Urdu, Social Studies, Science

<sup>\*1</sup> Thesis entitled “Stereochemistry Around Ni(II) and Zn(II) in Peripheral and Non-Peripheral Tetrasubstituted Macromolecules with Different Auxiliary Ligands”

<sup>\*2</sup> Dissertation entitled “Investigation on Some Indium(III) Macrocyclic Complexes with Phenols as Axial Ligand”

### RESEARCH SPECIALIZATION (MAJOR SCIENTIFIC FIELDS OF INTEREST)

- a) Coordination Chemistry of Transition elements.
- b) Metalloporphyrins
- c) Material Chemistry

### PUBLICATIONS

**No. of papers published**                      12  
**No. of papers communicated**              1

**No. of abstract published**

1

#### AWARDS AND PRIZES

1. Recipient of Council of Scientific and Industrial Research (**CSIR**) **NET-JRF** in the field of **Chemical Sciences** from the year December 2104 to 2016.

#### SESSIONAL MEMBERSHIP

1. The Indian Science Congress Association (**ISCA**).

**List of Publications** : *Annexure-I*  
**Conferences Attended** : *Annexure-II*  
**Additional Information** : *Annexure-III*

#### PERSONAL DETAILS

**Date of Birth** : January 04, 1988  
**Father's Name** : Sh. Jan Mohd  
**Mother's Name** : Smt. Ghulam Fatima  
**Marital Status** : Married  
**Designation** : Assistant Professor  
**Teaching Experience UG** : 3 Years  
**Strengths** : Punctual, Adaptive, Result Oriented  
**Languages known** : English, Hindi, Urdu, Dogri, Gojri, Pahaari  
**Religion** : Islam

#### DECLARATION

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

Date:

Sincerely yours,

Place:

**(Dr. Altaf Ahmed)**

## ANNEXURE- I

### LIST OF PUBLICATIONS

1. Synthesis, Spectroscopic Characterization and Antimicrobial Screening of Aluminium(III)porphyrin complexes Containing Substituted Salicylates.  
**Gauri D. Bajju, Deepmala, Sujata Kundan, and Altaf Ahmed**  
*Chemical Science Review and Letters*, **2014**, 3(12), 1135.
2. Toxicological Studies of Indium(III)porphyrin Complexes containing Salicylates as Axial Ligand.  
**Gauri D. Bajju, Deepmala, Ved kumar, Sujata Kundan and Altaf Ahmed**  
*World Journal of Pharmaceutical Research*, **2014**, 3(10), 1613.
3. Synthesis and Spectroscopic Characterization of Some New Axially Ligated Indium(III) Macrocylic Complexes and Their Biological Studies.  
**Gauri D. Bajju, Altaf Ahmed, Deepmala Gupta, Ashu Kapahi and Geeta Devi**  
*Bioinorganic Chemistry and Application*, **2014**, Article ID 865407.  
<http://dx.doi.org/10.1155/2014/865407>
4. Synthesis, Characterization and Biological Evaluation of Zn(II) Complex with Tridentate (NNO Donor) Schiff Base Ligand.  
**Nayaz Ahmed, Mohd Riaz, Altaf Ahmed and Madhulika Bhagat**  
*International Journal of Inorganic Chemistry*, **2015**; 2015 DOI [10.1155/2015/607178](https://doi.org/10.1155/2015/607178)
5. Synthesis, thermoanalytical and spectroscopic characterization of newly synthesized macrocylic complexes of thallium(III) and tin(IV)  
**Sapna Katoch, Gauri D. Bajju, Gita Devi, Altaf Ahmed**  
*J. Therm. Anal. Calorim.* DOI [10.1007/s10973-017-6531-x](https://doi.org/10.1007/s10973-017-6531-x)
6. Complexes of Nickel(II) with Peripherally Substituted Porphyrin; Synthesis, Spectral and Biological Evaluation  
*International Journal of Scientific & Engineering Research*, Volume 8, Issue 7, July-2017, pp. 88-93
7. Synthesis, Spectral Characterization, Antimicrobial and Acute Oral Toxicity Evaluation of Some A<sub>3</sub>B-Type Porphyrins Derivatives  
**Altaf Ahmed, Ashu, Gita Devi, Sapna Katoch, Gauri D. Bajju**

*Indian Journal of Heterocyclic Chemistry*, Vol. 27 - Number 03 (Jul-Sep 2017) 255-264

8. Synthesis, Characterization, and Some Biological Activities of Chromium(III) tetra(4-chlorophenyl)porphyrin salicylate and sulfosalicylate

**Gauri D. Bajju, Ashu, Gita Devi, Altaf Ahmed, Umar Ali Dar, Sapna Katoch**

*Indian Journal of Heterocyclic Chemistry*, Vol. 28 - Number 02 (Apr-Jun 2018) 213-220

9. Synthesis and bioactivity of oxovanadium(IV)tetra(4-methoxyphenyl)porphyrin salicylates

**Gauri Devi Bajju, Ashu, Altaf Ahmed and Gita Devi**

*BMC Chemistry*, (2019) 13:15, <https://doi.org/10.1186/s13065-019-0523-9>

10. Spectrochemical and Biological Evaluation of Axially Substituted Zirconium(IV) meso-Tetra(4-methoxyphenyl)porphyrins

**Gauri D. Bajju, Gita Devi, Altaf Ahmed, Ashu and Sapna Katoch**

*Russian Journal of Inorganic Chemistry*, [ISSN 0036-0236], 2019, Vol. 64, No. 6, pp. 734–741. DOI: 10.1134/S0036023619060044

11. **Altaf Ahmed, Gita Devi, Ashu, Sujata Kundan, Sapna Katoch and Gauri D. Bajju**

“Covalently Linked porphyrin-graphene oxide nanocomposite: synthesis, characterization and catalytic activity” in the *Journal of Material Science: Materials in Electronics* 30 (22) 19738-19751, 2019.

<https://doi.org/10.1007/s10854-019-02324-7>

12. Sujata Kundan, Gauri D. Bajju, **Altaf Ahmed**, Shrdha Anand and Devika Sharma

“Symmetrical Zn(II) porphyrin Complexes: Axial Ligation Effect” in the *Chemical Science Transactions*, journal 2021 10(4), 149-167

## ANNEXURE- II

### LIST OF CONFERENCE ATTENDED

S. No.	Conference/Institutions	Topic	PRESENTATION/ PARTICIPATION
1.	101 <sup>st</sup> Indian Science Congress, held at University of Jammu, Jammu. (February 3-7, 2014)	Synthesis and Spectroscopic Characterization of Axially Ligated Indium(III) 5,10,15,20- <i>meso</i> -tetraphenylporphyrins <i>Gauri D. Bajju and Altaf Ahmed</i>	Presentation
2.	102 <sup>nd</sup> Indian Science Congress, held at University of Mumbai, Mumbai. (January 3-7, 2015)	Stereochemistry around Ni(II) in Peripherally tetrasubstituted Macromolecules with different Salicylates as Auxiliary Ligands <i>Altaf Ahmed and Gauri D Bajju</i>	Presentation
3	10 <sup>th</sup> J & K Science Congress JKSC-15 (2015), held at Jammu university, Jammu. (14 <sup>th</sup> to 16 <sup>th</sup> March 2015)	Acute toxicity evaluations of some zinc(II) complexes containing substituted salicylates derived from porphyrin free-bases in rats <i>Altaf Ahmed and Gauri D. Bajju</i>	Presentation
4	4 <sup>th</sup> J&K Women Science Congress (JKWSC) (2016), held at GCW Gandhi Nagar, Jammu. (September 1-3, 2016)	Mimicking of Natural Biomolecules <i>Altaf Ahmed and Gauri D. Bajju</i>	Presentation
5	<u>International Conference</u> on Recent Advances in Fundamental and Applied Sciences [RAFAS 2016], Organized by Lovely Professional University, Punjab. (November 25 <sup>th</sup> -26 <sup>th</sup> , 2016)	Complexes of Nickel(II) with Peripherally Substituted Porphyrin: Synthesis, Spectral, Thermal and Biological evaluation <i>Altaf Ahmed, Padma Dechan and Gauri D. Bajju</i>	Presentation
6	11 <sup>th</sup> National Conference of the Indian Thermodynamic Society, Organized by Department of Chemistry, University of Jammu ( December 2 <sup>nd</sup> -3 <sup>rd</sup> , 2016)	Thermal and electrochemical behavior of some Nickel(II)-porphyrin complexes with different auxiliary ligands <i>Altaf Ahmed and Gauri D. Bajju</i>	Presentation
7	12 <sup>th</sup> J&K Science Congress JKSC-17 (2017), held at Jammu university, Jammu. (March 2 <sup>nd</sup> -4 <sup>th</sup> , 2017)	Investigations on some A <sub>3</sub> B-type Zinc(II)-porphyrins <i>Altaf Ahmed and Gauri D. Bajju</i>	Presentation
8	2-Day National Conference on Interdisciplinary Sciences and Humanities (2017), held at Govt. PG College Rajouri (March 15 <sup>th</sup> -16 <sup>th</sup> , 2017)	Synthesis, Characterization and Biological evaluation of some A <sub>3</sub> B-type nickel(II)-porphyrins complexes <i>Gauri D. Bajju and Altaf Ahmed</i>	Presentation
9	2-Day National Conference on Science, Society and Sustainable Development, held at Govt. Degree College Poonch. (15 <sup>th</sup> – 26 <sup>th</sup> November, 2017)	Functionalization of grapheme oxide with axially-coordinated metalloporphyrin: facile syntheses and biological properties <i>Altaf Ahmed and Gauri D. Bajju</i>	Presentation
10	2-Day <u>International Conference</u> on Advances in Mathematical, Physical and Computer Sciences, held at S.G.G.S Khalsa College, Mahilpur, Punjab (12 <sup>th</sup> to 13 <sup>th</sup> , Feb. 2018)	Investigations on some A <sub>3</sub> B-type Nickel(II)-porphyrins and their biological properties <i>Altaf Ahmed and Gauri D. Bajju</i>	Presentation
11	<u>International Conference</u> on Recent Advances in Interdisciplinary Sciences, Organized by Department of Electronics,	Synthesis, characterization, antimicrobial and acute oral toxicity evaluation of some asymmetrically substituted nickel(II)-	Presentation

	University of Jammu, Jammu. <b>(11<sup>th</sup> to 12<sup>th</sup> January, 2019)</b>	porphyrin salicylates complexes <i>Gauri D. Bajju and Altaf Ahmed</i>	
12	3-Day <a href="#">Virtual International Conference</a> on Emerging Research Trends in Chemical Sciences (ERTCS-2020) Organized by PG Department of Chemistry, Govt. PG College Rajouri. <b>(24<sup>th</sup> – 26<sup>th</sup> July, 2020)</b>	Synthesis, Characterization, biological evaluation and thermal behavior of some axially substituted Ni(II)-porphyrin complexes.	Oral Presentation
13.	Virtual International Conference on Recent Trends in Green Chemistry (ICRTGC-2021) Organized by Akal University, Bathinda, Punjab. <b>(28<sup>th</sup> – 30<sup>th</sup> September 2021)</b>	Synthesis, Spectroscopic and Biological Investigation on Some A <sub>3</sub> B-type Zinc(II)-Porphyrin	Poster Presentation
14.	Participated in International Web Conference On Invest in Our Planet organized by R&D Cell, Govt. P. G. College Rajouri and Pir Panjal Environment and Eco-Development Society Poonch. <b>(21<sup>st</sup> -22<sup>nd</sup> April 2022)</b>	Participation	Participation
15.	Participated in International E-Conference on Biological Diversity - Building a Shared Future for All Life organized by R&D Cell, Govt. P. G. College Rajouri on <b>May 22<sup>nd</sup> 2022.</b>	Participation	Participation
16.	Participated in International Web Conference on Gandhian Philosophy organized to commemorate of International day of Nonviolence on theme ‘The Power of Nonviolence’ organized by GDC Ramgarh on <b>October 03, 2022.</b>	Participation	Participation
17.	Participated in One Day Virtual National Science Conference on the theme “Science for Sustainable Living” organized by Department of Geography, Govt. Degree College Thannamandi on <b>November 10, 2022.</b>	Participation	Participation
18	Presented research paper in Two Days Multidisciplinary National Conference on “Recent Trends in Research and Innovation” held at GDC Thannamandi on <b>15<sup>th</sup> and 16<sup>th</sup> March, 2023</b>	“Spectral characterization and thermal behavior of Ni(II)-porphyrin complexes”	Oral Presentation

### ABSTRACT PUBLISHED

1. Published abstract entitled “Synthesis, Characterization, biological evaluation and thermal behavior of some axially substituted Ni(II)-porphyrin complexes” on the research paper presented in 3-Day [Virtual International Conference](#) on “Emerging Research Trends in Chemical Sciences (ERTCS-2020)” Organized by PG Department of Chemistry, Govt. PG College Rajouri from **24<sup>th</sup> – 26<sup>th</sup> July, 2020** ” in Kripa-

ANNEXURE- III

UGC-NRC TRAINING VISIT EXPERIENCE

<b>Institution:</b>	UGC- Networking Resource Centre, School of Chemistry, University of Hyderabad, Hyderabad.
<b>Nature of work:</b>	Synthesis & Spectral Characterization of some Porphyrin Derivatives.
<b>Name of the Supervisor:</b>	<b>Dr. Pradeepta K. Panda</b>

ACHIEVEMENTS

1. **Published Research Paper** entitled, “*Covalently Linked porphyrin-graphene oxide nanocomposite: synthesis, characterization and catalytic activity*” in the Journal of Material Science: Materials in Electronics 30 (22) 19738-19751, 2019.
2. Successfully completed with grade A+, a **4-Week Induction/Orientation Program (FIP)** for “*Faculty in Universities/Colleges/Institutes of Higher Education*” organized by Teaching Learning Centre, Ramanujan College, University of Delhi from 4th June to 1st July, 2020.
3. Participated in **AWSAR** (Augmenting Writing Skills for Articulating Research) **Webinar** on Popular Science Writing, organized by the Department of Science and Technology (DST), Government of India and Vigyan Prasar (VP) in collaboration with the University of Jammu on 25<sup>th</sup> June, 2020.
4. Participated in an online **Faculty Development Program (FDP)** on “Research Methodology” organized by Balaji Institute of Management Sciences, Telangana from 13th to 17th July, 2020.
5. Participated in **AWSAR** (Augmenting Writing Skills for Articulating Research) **Webinar** on Popular Science Writing, organized by the Department of Science and Technology (DST), Government of India and Vigyan Prasar (VP) on 22<sup>nd</sup> July, 2020.
6. Participated in **AWSAR** (Augmenting Writing Skills for Articulating Research) **Webinar** on Popular Science Writing, organized by the Department of Science and Technology (DST), Government of India and Vigyan Prasar (VP) on 24<sup>th</sup> July, 2020.

7. Presented a research paper entitled, “*Synthesis, Characterization, biological evaluation and thermal behavior of some axially substituted Ni(II)-porphyrin complexes*” in 3-Day **Virtual International Conference** on Emerging Research Trends in Chemical Sciences (ERTCS-2020) Organized by PG Department of Chemistry, Govt. PG College Rajouri from 24<sup>th</sup> – 26<sup>th</sup> July, 2020.
8. Successfully completed with grade A+, a **2-Week Faculty Development Program (FDP)** on “*Managing Online Classes and Co-Creating MOOCs 3.0*” organized by Teaching Learning Centre, Ramanujan College, University of Delhi from 25th July to 10th August, 2020.
9. Participated in **AWSAR** (Augmenting Writing Skills for Articulating Research) **Webinar** on Popular Science Writing, organized by the Department of Science and Technology (DST), Government of India and Vigyan Prasar (VP) on 27<sup>th</sup> July, 2020.
10. Attended **National Webinar** on “*Holistic Mental & Emotional Wellbeing*” organized conjointly by Psychological Cum Career Counseling & Placement Cell, Higher Education Department, Govt. of J&K and Government College for Women Parade Ground, Jammu on 30th July 2020.
11. Qualified for the award of **Degree of Doctor of Philosophy (Ph. D.)** in Chemistry by the Department of Chemistry, University of Jammu, Jammu, on the thesis entitled, “*Stereochemistry Around Ni(II) and Zn(II) in Peripheral and Non-Peripheral Tetrasubstituted Macromolecules with Different Auxiliary Ligands*” vide Notification no. 07/2020 ( Eval.-Prof-I/20/ 1577-1626, Dated 31-07-2020.
12. Actively participated in **One-Week National e-Workshop** on “*Leveraging Education for Harnessing Entrepreneurship, Research & Innovation (LEHRI)-2020*” organized by Higher Education Department, Govt. of Jammu & Kashmir (UT) in collaboration with Grassroots Innovation and Augmentation Network (GIAN) India from 7th to 12th September, 2020.
13. Participated in **AWSAR** (Augmenting Writing Skills for Articulating Research) **Webinar** on Popular Science Writing, organized by the Department of Science and Technology (DST), Government of India and Vigyan Prasar (VP) on 08<sup>th</sup> August, 2020.
14. Attended **Online Webinar** on “*Roadmap for Placements*” Organized by Psychological Cum Career Counseling & Placement Cell Higher Education Department, hosted by P.G College for Women, Parade, Jammu on 8th September-2020.
15. Attended TEQIP-III sponsored one week **Online Short Term Course** on “*Chemistry of Advanced Functional Material (CAFAM-2020)*” organized by Department of Chemistry, National Institute of Technology, Srinagar, during 21-25 September, 2020.
16. Successfully Completed the **Online Refresher Course** In Chemistry for Higher Education, **SWAYAM ARPIT Course** for Career Advancement Scheme (CAS)



promotion Organized jointly by SWAYAM and S.G.T.B. Khalsa College, University of Delhi with Grade “B” in the proctored examination held by NTA, New Delhi from 1<sup>st</sup> December 2020 to 31<sup>st</sup> March 2021.

17. Completed **One Week Online Certificate Course** on “Digital Teaching Techniques” organized by ICT Academy from 13<sup>th</sup> December to 17<sup>th</sup> December 2021
18. Participated in Seven-Day Virtual **Faculty Development Program** on “Recent Advances in Chemistry” Organized by Department of Chemistry, School of Science, RK University, Rajkot, Gujarat from Dec. 27, 2021 to Jan. 04, 2022.
19. Participated in **International One Week Faculty Development Program** on Research Methodology organized by Amar Sewa Mandal’s Kamla Nehru Mahavidyalaya, Nagpur-440024, Maharashtra from 2<sup>nd</sup> May, 2022 to 7<sup>th</sup> May, 2022.
20. Participated in **Five-Day National Level Faculty Development Program** on “Inculcating Universal Human Values In Education, An Inspiration of NEP 2020” Organized by Internal Quality Assurance Cell (IQAC) from 9<sup>th</sup> May, 2022 to 13<sup>th</sup> May, 2022.
21. Participated in **One Day National Seminar** on “Human Resource for Sustainable Development” Organized on 12<sup>th</sup> July 2022 by Department of Geography, Govt. Degree College Thannamandi, J&K.
22. Participated in **One Day Virtual National Seminar** on the theme “Science for Sustainable Living” Organized on 10<sup>th</sup> November 2022 by Department of Geography, Govt. Degree College Thannamandi, J&K.
23. Acted as **Adjudicator** in students’ technical session of Week Long Students Development Programme (SDP) on “Skill Development and Entrepreneurship” organized by Career Counselling Cell of GDC Thannamandi from 6<sup>th</sup> -11<sup>th</sup> Feb. 2023.
24. Presented research paper entitled, “Spectral Characterization and thermal behavior of Ni(II)-porphyrin complexes” in Two Days Multidisciplinary National Conference on “Recent Trends in Research and Innovation” held at GDC Thannamandi on 15<sup>th</sup> and 16<sup>th</sup> March, 2023.

#### WEBINAR

1. Participated in **International Webinar** on Chemistry Education (IWCE-2021) organized by Department of Chemistry, Govt. Madhav Science PG College, Ujjain and Association of Chemistry Teacher (ACT) Mumbai on 4<sup>th</sup> – 5<sup>th</sup> Feb., 2022.
2. Participated in **International Webinar** on Empowering Diversity in Science (GWB-2022) organized by Association of Chemistry Teacher (ACT) Mumbai in collaboration with International Union of Pure and Applied Chemistry (IUPAC), on 16<sup>th</sup> of Feb., 2022.

3. Participated in **International Web Conference** on “Invest in Our Planet” organized by R&D Cell, Govt. P. G. College Rajouri and Pir Panjal Environment and Eco-Development Society Poonch on 21-22 April, 2022.
4. Participated in **One Day National Webinar** on “ Climate Change and Sustainable Earth” Organized by Department of Geography, Govt. Degree College, Thannamandi on 22<sup>nd</sup> April, 2022.

#### AWARDS

1. Received **Certificate of Appreciation** from the Principal of Govt. Degree College, Thannamandi for displaying exemplary commitment in carrying out all the duties assigned to me during academic session 2021-22.
2. Received **Certificate of Appreciation** from the Principal of Govt. Degree College, Thannamandi for meritorious services as Convener, Research Committee of the College during the session 2022-23.
3. Received **Certificate of Appreciation** from the Principal of Govt. Degree College, Thannamandi for exemplary services in Higher Education Department on the eve of Republic Day-2023.

#### BOOKS PUBLISHED

1. Published a book entitled “**Foundation Course in Chemistry-2**” as co-author for the students of B.Sc. Semester-II (Major & Minor Course) by N.R. Books International, ISBN **978-93-95822-33-6**.