

Curriculum Vitae of Amrit Gond

Amrit Gond

Assistant Professor
Department of Chemistry
B.S.N.V. P.G. College (KKV),
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Research gate: https://www.researchgate.net/profile/Amrit_Gond2

Academic Profile

Ph.D.(Org. Chemistry-Pursuing, Since March 2019): Banaras Hindu University, India.

Qualified Examination: CSIR-UGC NET Examination of December, 2016; Secured UGC-JRF, UGC-SRF and UGC-NET

Title: *Synthesis of Novel Metal Complexes and their application in C-H Bond Functionalization.*

Mentor: Dr. Virendra Prasad, Professor of Organic Chemistry, BHU, India.

M.Sc. (Chemistry): IIT Madras, Chennai (2015-2017); ***Qualified Examination:*** IIT JAM-2015 for M.Sc. Course.

Project Title: *Transition metal complexes of N-Heterocyclic Carbene Ligands with Pendant Triazole Group.*

Mentor: Dr. Arnab Rit, Associate Professor, IIT Madras, India.

B.Sc. (Hons.)-Chemistry: Banaras Hindu University, India (2012-2015).

Professional Experience

Assistant Professor (10, June, 2022-Continue)

Department of Chemistry
B.S.N.V. P.G. College (KKV),
University of Lucknow,
Station Road, Charbagh,
Lucknow, Uttar Pradesh-226001

Senior Research Fellow (October, 2020 – June, 2022)

Institute of Science, Department of Chemistry, Banaras Hindu University Varanasi, India

Title: Synthesis of novel Metal Complexes and their application in C–H Bond Functionalization.

Advisor: Dr. Virendra Prasad, Professor of Organic Chemistry, BHU

Junior Research Fellow (March, 2019 – September, 2020)

Institute of Science, Department of Chemistry, Banaras Hindu University Varanasi, India

Title: Synthesis of novel Metal Complexes and their application in C–H Bond Functionalization.

Advisor: Dr. Virendra Prasad, Professor of Organic Chemistry, BHU, India

Junior Research Fellow (January, 2018 – February, 2019)

CSIR- Central Drug Research Institute (CDRI), Lucknow, India

Title: Synthesis of carbocycles/Aza-heterocycles under Visible Light photoredox catalyzed Conditions.

Advisor: Dr. Namrata Rastogi, Senior Principal Scientist, CSIR-CDRI, Lucknow, India

M.Sc. Project (July 2016 - May 2017)

Indian Institute of Technology Madras, Chennai, India

Title: Transition metal complexes of N-Heterocyclic carbene ligands with pendent triazole Group

Advisor: Dr. Arnab Rit, Associate Professor, IIT Madras, Chennai, India

Winter Internship (November 2015 - January 2016)

Institute of Science, Department of Chemistry, Banaras Hindu University Varanasi, India

Title: To define the characteristics properties of Organic and Inorganic molecules via Gaussian Programming Software. (Through, DFT: Density Functional Theory and TD-DFT: Time Dependent-Density Functional Theory Method)

Advisor: Dr. Satyen Saha, Professor of Physical Chemistry, BHU, India

Summer Internship (May 2016 - July 2016)

Institute of Science, Department of Chemistry, Banaras Hindu University Varanasi, India

Title: Synthesis of novel co-ordination compounds for the biological applications for the anticancer activity.

Advisor: Dr. Manoj. K. Bharty, Professor in Inorganic Chemistry, BHU, India.

M.Sc. Thesis Supervised: 03 Students

1. Riddhi Kamla (2023-24)
2. Rishita Sharma (2023-24)
3. Simran Chaurasia (2024-25)

List of Publications

1. Ashvani Yadav, **Amrit Gond**, Virendra Prasad*. Synthesis of Symmetrical Disulfides via NIS-PPh₃-Mediated Reductive Self coupling of Sulfonyl Hydrazide. *Synlett* **2024**, 35(12), 1453-1457.
2. **Amrit Gond**, Subhash Chandra, Ashvani Yadav, Virendra Prasad, Vijay Shankar, Lallan Prasad, Rajesh Ram. Synthesis of Novel NHC-Based Transition Metal Complexes of Pd(II), Au(I), Cu(I) and Ir(III) with Pendant 1,2,3-Triazole Group. *Inorganica Chimica Acta*, **2023**, 556, 121617.

Book Chapters:

1. Vikas Yadav, Rohit Kumar, **Amrit Gond**, Ashvani Yadav, Mitushree Ghosh, Ram Singh Kuri, Virendra Prasad*. New Trends in Asymmetric Catalysis: Chiral Hypervalent Iodine Compounds as Green and Sustainable Catalysts. (**Wiley Publications**, Scrivener, 2024).
2. **Amrit** et al. New Developments in Electrocatalysts for Oxygen Reduction Reaction: A Case of Pt-Ni Octahedron. (Published in, 2023).
3. Rajesh Ram, **Amrit Gond**; Subhash Chandra, Mamta Verma. Climate Change Scenario and Human Health Implications. (Published in, 2023).

Awards

1. **1st Prize in Oral Presentation (Best Oral Presentation Award)** awarded from **KTHM College, University of Pune**, Govt. of India, (on 27 Oct 2021).
2. **Doctoral Research Fellowship** awarded from **College of Science, Department of Chemistry, Korea University, Seoul, South Korea**. (on November 2018).
3. **UGC- Senior Research Fellowship (SRF)** awarded from **University Grants Commission**, Govt. of India. (October, 2020 to June, 2022).
4. **UGC- Junior Research Fellowship (JRF)** awarded from **University Grants Commission**, Govt. of India, (January, 2018 to October, 2020).
5. **UGC- National Eligibility Test** certificate awarded from **University Grants Commission**, Govt. of India (on 23rd March 2017) for the **Assistant Professor Position** in India.

Qualified Examination and Achievements

1. **Qualified All India Engineering Entrance Examination (AIEEE) in 2012.**
2. **Qualified Institute of Engineering and Rural Technology (IERT), Allahabad.** (Secured **All India Rank- 25th**)
3. **BHU Undergraduate Entrance Examination 2012.** (Secured **All India Rank-121**)
4. **IIT JAM-2015.** (Joint Admission Test for MSc Course)
5. **Qualified BHU Postgraduate Entrance Examination 2015.** (Secured **All India Rank- 2nd**)
6. **Qualified CSIR-UGC National Eligibility Test of December 2016.** (Secured **All India Rank-158**)
7. **Qualified BHU Research Entrance Test of March 2019.** (Secured **All India Rank- 1st**)
8. **UPHESC (Uttar Pradesh Higher Education Service Commission Examination, 2022 for Assistant Professor).** (Secured **Rank- 1st**)
9. **Completed Faculty Development Program (16th FIP-2025), Organized by Guru Ghasidas Vishwavidyalaya, Bilaspur.**

Administrative Services/Position at BSNV PG College (KKV)

Member of Admission Committee (Undergraduate)

Member of IT Cell

Member of Website Committee

Member of Digi-Shakti

Member of IPR Cell (IIC)

Member of Skill and Developments Cell (IIC)

Member of Research and Developments Cell

Assistant Nodal Officer (G-20 Painting Competition)

Life time membership of Anusandhan Sodh Patrika

Expertise in the Research Field

N-Heterocyclic Carbene Chemistry, Organometallic Chemistry, Diazo Chemistry, Photoredox Catalysis Chemistry, Medicinal Chemistry, Asymmetric Synthesis, C–H Bond Activation & C–H Bond Functionalization, Synthetic Organic Chemistry, Coordination Chemistry, Inorganic Chemistry, Gaussian Programming Software (DFT and TD-DFT), MATLAB Software, Molecular Simulation

Experimental and Analytical Skills

1. Interpretation of ^1D ($^1\text{H-NMR}$, $^{13}\text{C-NMR}$) and $^2\text{D-NMR}$
2. IR and Raman Spectroscopy
3. UV – Visible Spectroscopy
4. Mass Spectrometry
5. MS Office (MS word, Powerpoint, MS Excel, etc.)
6. Column Chromatography and Preparative TLC for the isolation of mixtures and recrystallization, Paper and Ion-exchange chromatography.

7. Experience of Computer Software's /Interfaces such as Chem. Bio Office, Mercury 3.7, 3.8 version & Diamond 4.0, Origin 8.5 version, EC lab Software, Topspin, MestReNova Software
8. Gaussian Programming Software
9. MATLAB Software
10. Expertise of DFT, TD-DFT, Semi-empirical Method, NBO, NPA, Optimization, Frequency Prediction, Thermodynamic Variable Calculation (ΔQ , ΔU , ΔH , ΔS , ΔG) from Gaussian Programming Software
11. Cyclic Voltammetry (CV) Analysis
12. Flash Column Chromatography
13. Molecular Simulation

Conferences/ Seminar/Workshops

1. One-day lecture workshop on **Writing of a Good Research Paper: Technical & Ethical Aspects** organized by Varanasi Local Chapter of NASI.
2. Three-day lecture workshop on **Research Methodology and Effective Paper Writing** organized by Research on Web.
3. Three days **27TH International Conference of International Academy of Physical Science (CONIAPS XXVII)** of *Sustainable Chemistry for Future Technologies* organized by Department of Chemistry, Institute of Chemical Technology, Mumbai, India.
4. Three days **27TH International Conference of International Academy of Physical Science (CONIAPS XXVII)** of *Recent Advances in Chemical Sciences* organized by Department of Chemistry, Institute of Science, BHU, Varanasi, India.
5. Three days **International Conference** of *Recent Trends in Drug Discovery and Development* organized by Department of Chemistry, Maitreyi College, University of Delhi, India.

6. Three days **International Conference of Recent Trends in Green and Sustainable Development in Chemical Sciences** organized by Department of Chemistry, KTHM College, University of Pune, India.
7. Three days **National Symposium on Contemporary Trends and Future Prospects of Functional Materials (CTFM-2019)** organized by Department of Chemistry, Institute of Science, BHU, Varanasi, India.
8. Two days **Chemistry in House Symposium Conference (CIHS-2015 & 2016)** organized by Department of Chemistry, IIT Madras, India.
9. Two days **Medicinal Chemistry Conference (MEDCHEM-2016)** organized by Department of Chemistry, IIT Madras, India.
10. Three days **Indo-USA Conferences**, organized by Institute of Science, Department of Chemistry, BHU, India and **Rice University, USA**.
11. Three days **National Seminar on Breaking Gender Biases: A Step Towards Sustainable Development** organized by Navyug Kanya Mahavidyalaya, Lucknow.
12. Two days **Emerging Trends in Chemical Sciences [ETCS 2023]** organized by Department of Chemistry, BHU, India.
13. Three days International Conference on **Emerging Trends in Glycoscience and Glycotechnology [ETGG 2025]** organized by Department of Chemistry, BHU, India.

Poster Presentation/Invited/Delivered Lectures in Conference or Seminar

1. Delivered a poster presentation on *Pd(OAc)₂-Catalyzed Oxidative Conversion of p-Quinone Methides to 4-Hydroxybenzophenones and Subsequent Thionation to 4-Hydroxythiobenzophenones*, in the **International Conference of Emerging Trends in Glycoscience and Glycotechnology [ETGG 2025]** organized by Department of Chemistry, BHU, India, **Date:** 23/11/2025

2. Delivered a poster presentation on *Synthesis of Symmetrical Disulfides via NIS-PPh₃-Mediated Reductive Self coupling of Sulfonyl Hydrazide*, in the **International Conference of Emerging Trends in Chemical Sciences [ETCS 2023]** organized by Department of Chemistry, BHU, India, **Date:** 16/12/2023
3. Delivered a poster presentation on *Palladium catalyzed selective ortho C-H bond activation of N-benzylbenzamide for arylation using directing scaffolds*, in the **27TH International Conference of International Academy of Physical Sciences (CONIAPS XXVII)** of *Recent Advances in Chemical Sciences*, jointly organized by Department of Chemistry, BHU and JNU, India, **Date:** 28/10/2021.
4. Delivered an oral/paper presentation on *Arylation of N-benzylbenzamide through intramolecular directing group assisted selective ortho C-H bond activation strategy under the catalysis of palladium*, in the **International Conference** of *Recent Trends in Green and Sustainable Development in Chemical Sciences*, organized by Department of Chemistry, KTHM College, University of Pune, Pune, India, **Date:** 25/10/2021.
5. Delivered an oral/paper presentation on *Directing group guided selective ortho C-H bond activation of N-benzylbenzamide for arylation under the catalysis of palladium*, in the **International Conference** of *Recent Trends in Drug Discovery and Development*, organized by Department of Chemistry, Maitreyi College, University of Delhi, New Delhi, India, **Date:** 08/10/2021.
6. Delivered an oral/paper presentation on *Intramolecular directing group assisted ortho C-H bond activation of N-benzylbenzamide for arylation under the catalysis of palladium*, in the **27TH International Conference of International Academy of Physical Science (CONIAPS XXVII)** of *Sustainable Chemistry for Future Technologies*, organized by Department of Chemistry, Institute of Chemical Technology, Mumbai, India, **Date:** 28/10/2021.

7. *Transition metal complexes of N-heterocyclic carbene ligands with pendent triazole group and its catalytic application*, delivered talk in seminar in Department of Chemistry, IIT Madras, Chennai, India, **Date:** 08/04/2017.
8. *Quantum dots: It's properties and applications*, delivered talk in seminar in Medicinal and Process Chemistry Unit, CSIR-Central Drug Research Institute, Lucknow, India, **Date:** 15/12/2018.
9. *Asymmetric visible light photoredox catalysis*, delivered talk in Medicinal and Process Chemistry Unit, CSIR-Central Drug Research Institute, Lucknow, India, **Date:** 07/06/2018.
10. *Synthesis of biologically important organic compounds through C-H bond functionalization*, delivered talk in seminar in Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, India, **Date:** 16/03/2021.

Project Details

1. *Amination of N-Heterocyclic and Non-Heterocyclic Compounds via C-H Functionalization under Metal and Metal-Free Catalysis*, submitted to the Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India.
2. *Design and Development of Novel C-H Amination/Arylation Strategies as Environmentally Sustainable Alternatives to Transition Metal Catalysis*, submitted to CSIR-HRDG, New Delhi, Government of India.
3. *Design and Development of Novel Synthetic Routes to Access Biologically Important Heterocyclic Scaffolds via C-H Bond Functionalization Strategies*, (special funds) **(Sanctioned Amt: 7952 USD/6,00,000/-Rupees, in 2021)** sanctioned by Institute of Eminence, Banaras Hindu University (BHU), Varanasi, Uttar Pradesh, India, Government of India.
4. *Antihypertensive Activity of N-Heterocyclic Compounds Developed via C-H Bond Activation Strategies and Extracted from Medicinal Plants (Arjuna, Cinnamon) for Cardiovascular Disease Management*, submitted to the Council of Science & Technology, Uttar Pradesh (CST-UP, 2023), Government of Uttar Pradesh.

5. *Design and Development of Novel C–H Amination/Arylation Strategies as Environmentally Sustainable Alternatives to Transition Metal Catalysts*, submitted to the Council of Science & Technology, Uttar Pradesh (CST-UP, 2024), Government of Uttar Pradesh.
6. *Development of New C–H Amination/Arylation Techniques as Eco-Friendly Substitutes for Transition Metal Catalysts*, (**Sanctioned Amt: 18,942 USD/16,86,000/-Rupees**) sanctioned by under the Council of Science & Technology, Uttar Pradesh (CST-UP, 2024-2025), Government of Uttar Pradesh.

References/Academic Supporters/Research Collaborators

Dr. Daya Shankar Pandey, Ph.D.
(FNA, FASc, FNASc, J C Bose National Fellow)
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Banaras Hindu University,
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Dr. Hiriyakkanavar Ila, Ph.D.
(FNA, FASc, CRSI Fellow-Gold Medal)
Honorary Professor of Organic Chemistry
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Jawaharlal Nehru Centre for Advanced
Scientific Research (JNCASR),
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Dr. Krishna Nand Singh, Ph.D.
(FNA, FNASc, J C Bose National Fellow, CNR
Rao Chair Professorship)
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Dr. Biswajit Ray, Ph.D.
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Dr. Mrigendra Dubey, Ph.D.
Associate Professor
Department of Metallurgy and Material Science,
Indian Institute of Technology, Indore (IITI),
Indore, Madhya Pradesh, India
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Dr. Raj Kumar Singh, Ph.D.

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248005

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Dr. Prem Prakash Solanki, Ph.D.

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Dr. Vikram Singh, Ph.D.

Scientist-ASSIST Division

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Dr. Nitin K. Chaudhari, Ph.D.

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Dr. Kartik Chandra Mondal, Ph.D.

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Indian Institute of Technology, Madras,
Chennai, Tamilnadu, India-600036.

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Dr. Manoj Kumar Bharty, Ph.D.

Professor of Inorganic Chemistry,
Department of Chemistry,
Institute of Science,
Banaras Hindu University,
Uttar Pradesh, India-221005

Email: manoj_vns2005@yahoo.co.in

Dr. Jebiti Haribabu, Ph.D.

Assistant Professor, Biochemist
Faculty of Medicine
University of Atacama (UDA)
Copiapó, Chile, North America

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Dr. Nazar Hussain, Ph.D.

Assistant Professor
Department of Chemistry
Institute of Medical Science,
Banaras Hindu University,
Varanasi, Uttar Pradesh, India-221005

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

Yours Sincerely

