




KIRORI MAL COLLEGE, UNIVERSITY OF DELHI



Title	Dr.	First Name	BHAGAT	Last Name	BHAKUNI	Photograph
Designation	ASSISTANT PROFESSOR					
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Phone No	Office					
	Residence					
	Mobile	7838601291				
Email	BHAKUNIDU@GMAIL.COM BHAKUNIDU@KMC.DU.AC.IN					
Web-Page	https://scholar.google.com/citations?user=VmQwi bMAAAAJ&hl=en					
Educational Qualifications						
Degree	Institution				Year	
PhD. Organomettalics	IISER Bhopal				2014	
B.Sc. (H)- M.Sc. Chemistry	KM College, DU				2009	
PGD Intellectual Property Rights	IGNOU, New Delhi				2017	
PGD Pharmaceutical Management	IGNOU, New Delhi				2020	
D Nutrition and Health Education	IGNOU, New Delhi				2021	
Career Profile						
<ul style="list-style-type: none">• Assistant Professor (ad hoc), Chemistry, Kirori mal College, University of Delhi, Since Oct 2015• Visiting faculty, M.Sc (Forensic Science), University of Delhi.• Co-Supervise dissertation of three students at M.Sc. Forensic Science level.• Postdoctoral Fellow (ad hoc), at Indian Institute of Technology, Mandi, Apr 2015- Sep 2015• Guest Lecturer Chemistry, Dyal Singh College, University of Delhi, Jan 2015- Apr 2015						
Administrative Assignments						
<ul style="list-style-type: none">• Examiner in entrance exam of M.Sc (Forensic science) at University of Delhi (2019-21).• Chief Examiner in B.Sc. Analytical Chemistry Theory paper settings at University of Delhi.• Examiner in Generic Elective (Chemistry) for B.Sc. (Honors) at University of Delhi.• Examiner in entrance exam of M.Sc (Forensic science) at University of Delhi (2019-21).• Chief examiner of SEC Forensic science at University of Delhi.• Examiner of SEC fuel chemistry at University of Delhi.• External Examiner in Practical Exams, University of Delhi.• Internal Examiner in Practical Exams, University of Delhi.• Member in various Departmental committees.						
Areas of Interest / Specialization						
<ul style="list-style-type: none">• Organometallic Chemistry• Medicinal• Forensic Sciences						

- **Intellectual Property Rights**
- **Pharmaceutical Chemistry**
- **Environmental Sciences**

Subjects Taught

- **Inorganic Chemistry**
- **Environmental Chemistry**
- **Analytical Chemistry**
- **Organic Chemistry**
- **Intellectual Property Rights**
- **Forensic Sciences**
- **Geo-informatics**
- **Pharmaceutical Chemistry**

Research Guidance

- **Co-Supervise dissertation of three students at M.Sc. Forensic Science level.**

Mr. Dharmender Singh Bisht

Ms. Komal Dhaiya

Ms. Jyoti Verma

Publications Profile

a. **Research Paper**

- **Bhakuni, B. S et al. "Radical Chain Breaking Bis (ortho-organoselenium) Substituted Phenolic Antioxidants" *Chemistry–An Asian Journal*, 2021**
- **Bhakuni, B. S.; Yadav, A.; Kumar, S.; Patel,S.; Sharma,S.; Kumar, S. "KOTBu-Mediated Synthesis of Dimethylisoindolin-1-ones and Dimethyl-5-phenylisoindolin-1-ones:Selective C-C Coupling of Unreactive tert-sp³ C-H Bond" *The Journal of Organic Chemistry* 2014, 79, 2944. **Highlighted in SYNFACTS, ACS Select Virtual Issue Editorial Highlights it as one of the best paper in C-H Functionalization.****
- **Bhakuni, B. S.; Kumar, A.; Balkrishna, S. J.; Sheikh, J. A.; Konar, S.; Kumar, S. "KOTBu Mediated Synthesis of Phenanthridinones and Dibenzoazepinones" *Organic Letters*, 2012, 14, 2838. **Highlighted in reviews Chemical Reviews, Chemistry European journal Reviews, RSC Advances Reviews****
- **Bhakuni, B. S.; Yadav, A.; Kumar, S.; Kumar, S. "AMVN-Initiated Expedient Synthesis of Biaryls by the coupling reaction Unactivated Arenes and Heteroarenes with Aryl Iodide" *New Journal of Chemistry*, 2014, 38, 827. **Highlighted in reviews Advance Synthesis and Catalysis Reviews****
- **Bhakuni, B. S.; Shrimali, K.; Kumar, A.; Kumar S. "Potassium tert-butoxide Mediated Synthesis of Phenanthridinone" *Organic Syntheses*, 2013, 90, 164.**

- **Bhakuni, B. S.**; Balkrishna, S. J.; Kumar, A. Kumar S. "An Efficient Copper Mediated Synthetic Methodology for Benzo[d]isothiazol-3(2H)-ones and Related Sulfur-Nitrogen Heterocycles" **Tetrahedron Letters**, **2012**, 53, 1354.
- Balkrishna, S. J.; **Bhakuni, B. S.**; Chopra, D.; Kumar S. "Cu-Catalyzed Efficient Synthetic Methodology for Ebselen and Related Se-N Heterocycles" **Organic Letters**, **2010**, 12, 5394.
- Balkrishna, S. J.; **Bhakuni, B.S.**; Kumar S. "Copper Catalyzed/Mediated Synthetic Methodology for Ebselen and Related Isoselenazolones" **Tetrahedron**, **2011**, 67, 9565.
- Kumar, A.; **Bhakuni, B. S.**; Prasad, D. C.; Kumar, S.; Kumar, S. "Potassium tert- Butoxide Mediated Synthesis of Unsymmetrical Diaryl Ethers, Sulfides, and Selenides from Aryl Bromides" **Tetrahedron**, **2013**, 69, 6383.
- Prasad, C. D.; Balkrishna, S. J.; Kumar, A.; **Bhakuni, B. S.**; Shrimali, K.; Biswas, S.; Kumar, S. "Transition Metal Free Synthesis of Unsymmetrical Diaryl Chalcogenides from Arenes and Diaryl Dichalcogenides" **The Journal of Organic Chemistry**, **2013**, 78, 1434.
- Balkrishna, S. J.; Kumar, S.; Azad, G. K.; **Bhakuni, B. S.**; Panini, P.; Ahalawat, N.; Tomar, R. S.; Detty, M. R.; Kumar, S. "An Ebselen like Catalyst with Enhanced GPx Activity via Selenol Intermediate" **Organic & Biomolecular Chemistry**, **2014**, 4, 1153
- **Bhakuni, B. S***; "CCDC 989948: Experimental Crystal Structure Determination N-(4- Methoxyphenyl)-2- (phenylthio)benzamide" **CSD Communication**, **2016**
- **Bhakuni, B. S***; Kumar, R.; Bhakuni, P. S. Synthesis of Diaryl Disulfides, -Sulfides, and Aryl Alkyl Sulfides from Isothiazolones " **Chemical Science Transaction (India)**, **2016**, 2, 321 **Corresponding Author**

b. Books

- **Bhakuni, B. S** and Lal, M._ "Handbook of Environmental Chemical Toxicology" selective and scientific books, New Delhi, **2021**
- **Bhakuni, B. S** and Yadav, Abhimanyu._ "Medicinal Chemistry"(TBP) Krishna Publication, Meerut, **2021**

c. Research work in International Books (M.Sc. & Ph.D. Level)

- C-H bond activation in organic synthesis by Prof. Jie Jack li, CRC Press// 2015**
- Fieser' reagents for organic synthesis, Vol 28 by Prof. Tse-Lok Ho, Wiley Publication// 2019**
- Arene Chemistry by Prof. Jacques Mortier, Wiley Publication // 2016**
- Heterocycles from double-fuctionalized arene by Prof. Mathias Beller, Royal Society // 2016**
- Targets in heterocyclic systems by Prof. Orazio Attansi, Vol 20, Italian Chemical Society // 2016**
- Remote C-H bond fuctionalization by Prof. Debabrata Maity Wiley Publication // 2021**

Conference / Workshops/Training Organized
Creation of ICT Mediated Teaching Learning Pedagogy and Content
Conference/Workshops/Training attended as Faculty Member
<ul style="list-style-type: none"> • Attended five day faculty development program at NIT Andhra Pradesh, Sep-2020 • Attended one week faculty science leadership workshop, CUP Punjab, Oct-2020 • Three-day entrepreneurship camp held at KM College, University of Delhi, Apr-2019 • Attended one-week faculty development program at ARSD, University of Delhi, Oct-2018 • Workshop and hands on experience in Advance spectroscopy and DLS at KM College, Delhi University, Sep-2018 • Participated in ACS on Campus Seminar, held at University of Delhi, Feb-2018
Invited Lectures/Resource Persons
<ul style="list-style-type: none"> • Invited Speaker at IFTM University Moradabad under National Webinar June-2021 • Invited Speaker at KN (PG) College, Mahatma Gandhi Kashi University under Department of Biotechnology Apr-2021 • Invited Speaker at First National Conference on Forensic Science, University of Delhi, Feb-2018 • Resource person for one week DST inspire camp at Indira Gandhi National Tribal University, Amarkantak, Jul-2018
Research Projects (Major Grants/Research Collaboration)
Awards and Distinctions
<ul style="list-style-type: none"> • Coordinator (silver medal) “<u>UN COP +26 International Climate action</u>” program, organized by IARF, Mumbai //2020 • Certificate Course (online) on “<u>Hyper spectral Remote Sensing and its Application</u>” // 2019 • International Short term course on “<u>RIO +25 UN water action decade</u>” ” // 2019 • SURP fellow Dr. B.R Ambedkar Center for Biomedical research, Delhi // 2008 • NET qualified 2009, 2011, GATE qualified // 2008
Association with Professional Bodies
<ul style="list-style-type: none"> • Member of American Chemical Society (ACS), USA • Life Member of Indian Society of Analytical Chemist, BARC, Mumbai. • Life Member of Indian Science Congress, Kolkata

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| <ul style="list-style-type: none">• Editorial board member, Chemical Science Transaction (CST), UGC approved journal since 2017 |
| Other Activities |
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Signature of Faculty Member