



Bhagini Nivedita College

Faculty Details



Title	Dr.	First Name	YOGESH	Last Name	KUMAR	Photograph
Designation	Assistant Professor					
Address	H. No. E-29A, Pandav Nagar Patpad Ganj, New Delhi Delhi-110007, INDIA					
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Web-Page	http://www.bhagininiveditacollege.in/page.php?page_id=36					
Educational Qualifications						
Degree	Institution				Year	
PhD	University of Delhi				2014	
M.Sc. (Inorganic Chemistry)	Ch. Charan Singh University Meerut				2010	
M.Sc. (Organic Chemistry)	Ch. Charan Singh University Meerut				2005	
B.Sc.	Ch. Charan Singh University Meerut				2003	
Career Profile						
1. Assistant Professor Department of Chemistry Bhagini Nivedita College University of Delhi Delhi-110043						5 th September 2018-till date
2. Assistant Professor (Add-Hoc) Department of Chemistry Hans Raj College University of Delhi Delhi-110007						22 nd Aug. 2017-4 th Sep. 2018
3. Young Scientist Fellow Department of Chemistry Hans Raj College University of Delhi						22 nd Aug. 2017-31 st March 2019

Delhi-110007	
4. Young Scientist Fellow Department of Chemistry Malviya National Institute of Technology (MNIT) Jaipur, Rajasthan-302017	1 st April 2016-21 st Aug. 2017
5. Assistant professor (Guest Lecturer) Sri Guru Tegh Bahadur Khalsa College (SGTB Khalsa College), University of Delhi-110007	5 th Aug. 2016 to 10 th Nov.2016
6. Assistant Professor (Ad-Hoc) Sri Venkateshwara College, University of Delhi-110021	26 th Feb. 2015 to 22 nd May 2015
7. Erasmus Mundus Visiting Scholar Department of Chemistry University of Leuven, Leuven, Belgium	15 th Nov. 2013- 15 th Sept. 2014
Administrative Assignments	
As assigned by college from College	
Areas of Interest / Specialization	
<ul style="list-style-type: none"> ➤ Organocatalyzed C—H bond activation & Cross-Dehydrogenative Coupling reactions ➤ Transition Metal-catalyzed C—C & C—N bond formation via C—H bond activation ➤ Development of catalytic asymmetric reactions / New Synthetic Methodologies. Asymmetric catalysis / Synthesis ➤ Medicinal chemistry, drug discovery & process development ➤ Synthesis of Peptidomimetic Small Molecules. ➤ Biochemistry of malaria parasite and HIV virus. ➤ Synthesis of enzyme-inhibitor complex. 	
Subjects Taught	
<ul style="list-style-type: none"> ❖ Theoretical Courses: B.Sc.(H) and B. Sc. (P) <p>Department of Chemistry, Bhagini Nivedita College, University of Delhi, Delhi, India</p> <ul style="list-style-type: none"> ➤ Atomic Structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons ➤ Functional Group Organic Chemistry-1 ➤ Functional Group Chemistry-2 ➤ Chemistry of s & p block elements, ➤ Organometallic & Bio-Inorganic Chemistry <ul style="list-style-type: none"> ❖ Practical / Experimental Courses <p>B. Sc. (Chemistry) Previous year, Second year and Final year</p> <p>Department of Chemistry, Bhagini Nivedita College, University of Delhi, Delhi, India</p>	

Research Guidance	
1. Supervision of awarded Doctoral Thesis	NIL
2. Supervision of Doctoral Thesis, under progress	NIL
Publications Profile	
1.	Metal-Free, H ₂ O ₂ -Mediated, Regioselective Direct C-3 Hydroxylation of Imidazo[1,2-a]pyridines via C(sp ²)-H Bond Functionalization. Yadav, R. K.; Kumar, Y. ; Chaudhary, S. ChemistrySelect, 2020, 5(29), 9235-9239. (ISSN = 2365- 6549) (IF = 1.8)
2.	COVID-19: An Update on Clinical Trials. Kumar, Y. ,* Singh, A. K.; Kumar, S. Current Topics in Medicinal Chemistry, 2020, 20(17), 1516. DOI: 10.2174/1568026620999200511092332. (IF 3.38)
3.	COVID-19 Pandemic – Are We Heading From Health Crisis Towards An Unprecedented Nutrition Crisis? Kumar, Y. ,* Jain, A. Current Topics in Medicinal Chemistry, 2020, 20(16), 1438. DOI: 10.2174/1568026620999200511092629. (IF 3.38)
4.	Synthesis of coumarin based triazolyl thiazolidinones and their apoptotic inducer activity against caspase-3. Pooja, Sinha, N.; Kumar, S.; Atul, Kumar, S.; Kumar, P.; Pandey, A.; Sharma, P.; Aggarwal, V.; Poonam, Mothsra, P.; Singh, B. K.; Singh, R. P.; Kumar, Y. * Chem. Biol. Lett., 2019, 6(2), 31-38. (IF = 4.7) (ISSN: 2347–9825)
5.	Anti-infectious Drugs: Approaches and Achievements-Part I. Rathi, B.; Kumar, Y. ; Kumar, S.; Poonam. Current Topics in Medicinal Chemistry, 2018, 18(22), 1925. (IF 3.38).
6.	Molecules Effective against Infectious Diseases–Part II. Rathi, B.; Kumar, Y. ; Kumar, S.; Poonam. Current Topics in Medicinal Chemistry, 2018, 18(23), 2007. (IF 3.38).
7.	One-pot synthesis and photophysical studies of dihydropyrimidinone-based dyes: Novel violet-blue light emitting Fluorophores. Matta, A.; Kumar, M.; Kumar, Y. ; Taniike, T.; Van der Eycken, J. V.; Brajendra K. Singh, B. K. ChemistrySelect, 2018, 3(38), 10815-10820. (IF = 1.5)
8.	Microwave-Assisted Ruthenium-Catalysed ortho-C-H Functionalization of N-Benzoyl α -Amino Ester Derivatives, Sharma, N; Bahadur, V.; Sharma, U.; Saha, D.; Li, Z.; Kumar, Y. ; Colaers, J.; Singh, B. K.; Van-Der Eycken, E.; Advanced Synthesis & Catalysis, 2018, 360 (16) Accepted DOI 10.1002/adsc.201800458 (IF = 5.646)
9.	New Inhibitors of Plasmeprin II and IV Hydroxyethylamine Analogs as Growth Inhibitors of Plasmodium falciparum. Singh, A. K.; Rajendran, V.; Singh, S.; Kumar, P.; Kumar, Y. ; Ghosh, P. C.; Singh, B. K.; Dunn, B. M.; Rathi, B.. Bioorganic & Medicinal Chemistry, 2018 Accepted doi.org/10.1016/j.bmc.2018.06.037 (IF = 2.42)
10.	Design, Synthesis and Biological Evaluation of Arylpiperazine Based Novel Phthalimides: Active Inducers of Testicular Germ Cell Apoptosis. Singh, A. K.; Bhardwaj, J. K.; Olival, A.; Kumar,

- Y.; Podder, A.; Maheshwari, A.; Agrawal, R.; Latha, N.; Singh, B. K.; Tomás, H.; Rodrigues, J.; Rupini, B.; Rathi, B. J. Chem. Sci. 2016. DOI No. 10.1007/s12039-016-1122-0.
11. Domino carbopalladation/C-H functionalization sequence: an expedient synthesis of bis-heteroaryls via transient alkyl/vinyl palladium species capture. Sharma, U. K.; Sharma, N.; **Kumar, Y.**; Singh, B. K.; Van Der Eycken, E. V.; · Chem. Eur. J. 2016, 22, 481-485.
 12. Cu(I)-catalyzed microwave-assisted synthesis of 1,2,3-triazole linked with 4-thiazolidinones: a one pot sequential approach. **Kumar, Y.**; Matta, A.; Kumar, P.; Parmar, V. S.; Van Der Eycken, E. V.; Singh, B. K., RSC Adv. 2015, 5 (2), 1628-1639.
 13. Microwave-Assisted Cu(I)-Catalysed, Three-Component Synthesis of 2-(4-((1-phenyl-1H-1,2,3-triazol-4-yl)methoxy)phenyl)-1H-benzo[d]imidazoles. **Kumar, Y.**; Bahadur, V.; Singh, A. K.; Parmar, V. S.; Van Der Eycken, E. V.; Singh, B. K. Beilstein J. Org. Chem. 2014, 10, 1413-1420.
 14. O₂-Dependent Efficacy of Novel Piperidine- and Piperazine-Based Chalcones against the Human Parasite Giardia intestinalis. Bahadur, V.; Mastronicola, D.; Tiwari, H. K.; **Kumar, Y.**; Giuffre, A.; Singh, B. K.; Antimicrob. Agents Chemother. 2014, 58(1), 543-549.
 15. Microwave-Assisted Copper Azide Alkyne Cycloaddition (CuAAC) Reaction using D-Glucose as a Better Alternative Reductant. **Kumar, Y.**; Bahadur, V.; Singh, A. K.; Parmar, V. S.; Singh, B. K. J. Indian Chem. Soc. 2013, 90, 1893.
 16. Design, synthesis and biological activity evaluation of regioisomeric spiro-(indoline-isoxazolidines) in the inhibition of TNF- α -induced ICAM-1 expression on human endothelial cells. Malhotra, S.; Balwani, S.; Dhawan, A.; Raunak.; **Kumar, Y.**; Singh, B. K.; Olsen, C. E.; Prasad, A. K.; Parmar, V. S.; Ghosh, B. Med. Chem. Commun., 2012, 3, 1536-1547.
 17. Arylalkyl Ketones, Benzophenones, Desoxybenzoins and Chalcones Inhibit TNF- α Induced expression of ICAM-1: Structure-Activity Analysis. Kumar, S.; Reddy, C. S. L.; **Kumar, Y.**; Kumar, A.; Singh, B. K.; et al.. Arch. Pharm. Chem. Life Sci. 2012, 345, 368-377.

Publications in the Last one year

1. Metal-Free, H₂O₂-Mediated, Regioselective Direct C-3 Hydroxylation of Imidazo[1,2-a]pyridines via C(sp²)-H Bond Functionalization. Yadav, R. K.; **Kumar, Y.**; Chaudhary, S. ChemistrySelect, 2020, 5(29), 9235-9239. (ISSN = 2365- 6549) (IF = 1.8)
2. COVID-19: An Update on Clinical Trials. **Kumar, Y.**;* Singh, A. K.; Kumar, S. Current Topics in Medicinal Chemistry, 2020, 20(17), 1516. DOI: 10.2174/1568026620999200511092332. (IF 3.38)
3. COVID-19 Pandemic – Are We Heading From Health Crisis Towards An Unprecedented Nutrition Crisis? **Kumar, Y.**;* Jain, A. Current Topics in Medicinal Chemistry, 2020, 20(16), 1438. DOI: 10.2174/1568026620999200511092629. (IF 3.38)

Conference Organization/ Presentations (in the last three years)
<p>1. 1st International Conference on Integrative Chemistry, Biology & Translational Medicine (ICBTM-2019) held on 25-26 Feb., 2019 sponsored by Loyola University, Chicago-USA at Hansraj College, University of Delhi, India. { Poster Presentation: Glucose: A Better Alternative Reductant for Copper (I) Catalyzed Heterocyclic Ring Formation"} “Best Poster award”</p> <p>2. UGC-Sponsored National Conference in Chemistry (NCC-2016) “Environment & Harmonious Development” held on 7-8 April, 2016 at Shyam Lal College, University of Delhi, India. { Poster Presentation: Synthesis of Coumarin Based Triazolylated Thiazolidinone Derivatives and to Study Their Apoptotic Inducer/Inhibitor Activity} “Best 3rd Poster award”</p> <p>3. National Conference in Chemistry “Recent Innovations in Chemical Science and Technology” held on 15-16 Feb, 2016 at Sri Aurobindo College, University of Delhi, India. {Poster Presentation: Green Chemistry Approach for the Synthesis of Coumarin-Thiazolidinone Derivatives as Their Anticancer Activity}</p> <p>4. International Conference on "Current Challenges in Drug Discovery Research (CCDDR 2015)" held on 23-25th November, 2015 at Malaviya National Institute of Technology (MNIT) Jaipur, Rajasthan, India. {Poster Presentation: Ligand-Based Optimisation, Synthesis And Docking Of 1,2,3-Triazoles, Inhibitors of P450 14 a-Sterol Demethylase (CYP51)}</p>
Research Projects (Major Grants/Research Collaboration)
<p>1. DST-SERB Start-up Research Grant (Young Scientist) Funding Agency: SERB-DST (2016-2019) Major Project (34 Lakh) Project Title: “Synthesis of hetero-substituted amino acids via C (sp³)-H functionalization and its applications”</p>
Awards and Distinctions
<ul style="list-style-type: none"> ➤ Awarded best Distinguished Investigator Award for notable Academia-Industry research excellence from Center for Global Health, Hansraj College, University of Delhi, India & Loyola University Chicago Stritch School of Medicine, USA in association with TCI Chemicals (India) Private Limited, 2019. ➤ Young Scientist award 2015, DST, India. ➤ Awarded and availed Erasmus-Mundus Program EXPERT III Fellowship as a visiting PhD Student (2013-2014). ➤ Awarded Erasmus-Mundus Program Svaagata Fellowship as a visiting PhD Student (2013-2014). ➤ Qualified UGC-JRF December 2009 and SRF from 2012 to 2013. ➤ Qualified Graduate Aptitude Test in Engineering (GATE), February 2010 (Rank 1748 out of 8056). ➤ Stood First Rank in M.Sc. in D.A.V. College Bulandshahar.
Association With Professional Bodies
<ul style="list-style-type: none"> ❖ Reviewing ❖ Advisory

- ❖ Committees and Boards
- ❖ Memberships
- ❖ Office Bearer

Other Activities