




Bhagini Nivedita College

Faculty Details



Title	Dr.	First Name	Poonam	Last Name	Mothsra	Photograph
Designation		Associate Professor				
Address		A-42, G.F, Back side, Chander Nagar, Janakpuri, New Delhi-110058				
Phone No	Office					
	Residence	+91-9891654859				
	Mobile	+91-9891654859				
Email		Poonam.mothsra@bn.du.ac.in , pcmot.chemist@gmail.com				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
B.Sc (Hons) Chemistry		Rajdhani College, University of Delhi			2001	
M.Sc Chemistry		Department of Chemistry, University of Delhi			2003	
Ph.D thesis		Department of Chemistry, University of Delhi			2007	
Career Profile						
Dept. of Chemistry, Bhagini Nivedita College (from 2007 to till date)						
Administrative Assignments						
Involved in establishing chemistry department in Bhagini Nivedita College being the founder member of the department. Working as TIC of the department for more than a decade. Worked as staff council secretary in addition to being convenor of various crucial committees of college like, Admission, Purchase, Academic Planning and Reform committee etc.						
Areas of Interest / Specialization						
Synthetic organic chemistry Green chemistry Pharmaceutically important heterocyclic compounds						
Subjects Taught						
Organometallic, Bio-Inorganic Chemistry, polynuclear hydrocarbons. And UV, IR Spectroscopy Chemistry of d-block elements, Quantum Chemistry and Spectroscopy Intellectual Property Rights Atomic structure, Bonding, General Organic Chemistry & Aliphatic Hydrocarbons						

Research Guidance
-
Publications Profile
<ul style="list-style-type: none"> • M. Kidwai, P. Mothsra, R. Mohan & S., “Aryl-4,6-diamino-1,2-dihydrotriazine as Antimalarial Agent: a New Synthetic Route.” <i>Bioorganic & Medicinal Chemistry Letters</i>, 15(2005) 915-917. (IMPACT FACTOR: 2.951) • M. Kidwai & P. Mothsra, “Neat Reaction Technology for the Synthesis of Novel 1,5-Benzodiazepines.” <i>Synthetic Communication (USA)</i>, 36 (2006)817-824. (IMPACT FACTOR: 0.984) • M. Kidwai & P. Mothsra, “One-pot New Synthesis of 1,2,4,5-Tetrarylimidazole using Molecular Iodine as an Efficient Catalyst.” <i>Tetrahedron Letters</i>, 47(2006) 5029-5031. (IMPACT FACTOR: 2.817) • M. Kidwai*, P. Mothsra, V. Bansal & R. Goyal, “Elemental Iodine Catalyzed One Pot Efficient Synthesis of 2,4,5-Triaryl Imidazoles.” <i>Monatshfte fur Chemie</i>, 137 (2006)1189-1194. (IMPACT FACTOR: 1.347) • M. Kidwai*, P. Mothsra, V. Bansal, R. K. Somvanshi, A. S. Ethayathulla, S. Dey & T. P. Singh, “One Pot Synthesis of Highly Substituted Imidazoles using Molecular Iodine: A versatile Catalyst.” <i>Journal of Molecular Catalysis A: Chemical</i>, 265 (2007)177-182. (IMPACT FACTOR: 3.679) • M. Kidwai*, V. Bansal, P. Mothsra (2007). “Molecular Iodine: A Highly Efficient Catalyst for the Synthesis of 7-Arylbenzopyrano [1,3] diazepines in Non-Protic Solvents.” <i>Journal of Molecular Catalysis A: Chemical</i>, 266(2007) 43-46. (IMPACT FACTOR: 3.679) • M. Kidwai, V. Bansal, P. Mothsra, S. Saxena, R. K. Somvanshi, S. Dey & T. P. Singh, “Molecular Iodine: A Versatile Catalyst for The Synthesis Of Bis(4Hydroxycoumarin) Methanes In Water. “<i>Journal of Molecular Catalysis A: Chemical</i>, 268 (2007)76-81. (IMPACT FACTOR: 3.679) • M. Kidwai & P. Mothsra, “Microwave-Assisted Neat Reaction Technology for the Synthesis of s- Triazolo[3,4-b]-1,3,4-thiadiazine.” <i>Journal of Sulfur Chemistry</i>, 28(2007) 149-153. (IMPACT FACTOR: 0.822) • M. Kidwai*, D. Bhatnagar, P. Mothsra, A. K. Singh & Sharmishtha Dey, “Molecular Iodine as a Versatile Reagent for Hantzsch Synthesis of 2-Aminothiazole Derivatives.” <i>Journal of Sulfur Chemistry</i>, 30, (2009) 29-36. (IMPACT FACTOR: 0.822) • M. Kidwai, P. Mothsra, Namita Gupta, Sushil. S. Kumar & Rani Gupta, “Green Enzymatic Synthesis of L-Ascorbyl Fatty Acid Ester: An Antioxidant.” <i>Synthetic Communication (USA)</i>, 39 (2009)1143-1151. (IMPACT FACTOR: 0.984) • M. Kidwai, R. Poddar & P. Mothsra, “N-acylation of Ethanolamine using Lipase: A Chemoselective Catalyst.” <i>Beilstein Journal of Organic Chemistry</i>, 5, no pp given, (2009). (IMPACT FACTOR: 2.803) • Pooja, Sinha,N.; Kumar, S.; Atul, Kumar, S.; Kumar, P.; 3 Pandey, A.; Sharma, P.; Aggarwal, V.; Poonam, Mothsra, P.; Singh, B. K.; Singh, R. P.; Kumar, Y.* “Synthesis of coumarin based triazolylthiazolidinones and their apoptotic inducer activity against caspase-3.” <i>Chem. Biol. Lett., Lett.</i>, 6(2) (2019), 31-38. • Details of Nationally published Articles

<ul style="list-style-type: none"> • P. Mothsra, “Effect of COVID-19 Pandemic on Environment- Real Picture awaited” Ch-9 (2021) 90-100. Academic Publication. (ISBN-978-93-83931-19-4) • M. Kidwai and P. Mothsra,” Neat Reaction Technology: A Green Tool.” Indian Journal of Chemistry, 45B (2006) 2330-2336. (IMPACT FACTOR: 0.489) • M. Kidwai, P. Mothsra & Roona Poddar” Enzyme Catalyzed Acylation of 7-Hydroxy-4-methyl-2H-chromene-2-one using Microwave.” Indian Journal of Chemistry, 48B (2009)1307-1310. (IMPACT FACTOR: 0.489)
Publications in the Last one year
<ul style="list-style-type: none"> • P. Mothsra, “Effect of COVID-19 Pandemic on Environment- Real Picture awaited” Ch-9 (2021) 90-100. Academic Publication. (ISBN-978-93-83931-19-4)
Conference Organization/ Presentations (in the last three years)
<ul style="list-style-type: none"> • Presented Poster in 1st International Conference on Integrative Chemistry, Biology and Translational Medicine, 25-26 January, 2019 organized by Center for global health, Hansraj College, University of Delhi & Loyola University Chicago Stritch School of Medicine, USA. • Attended and completed Professional development programme for senior faculty, 24-31 December 2018 by UGC-HRDC, Jamia Millia Islamia, New Delhi, India. • Attended and successfully completed Faculty development programme entitled “University functioning and blended learning”, 8-20 December 2018 by Guru Angad dev Teaching Learning Centre of MHRD, SGTB Khalsa, University of Delhi, Delhi, India. • Attended and successfully completed Faculty development programme on “Emerging Areas of Engagement in Pedagogy and Research” 24-30 November 2018. Shyam Lal college, University of Delhi, Delhi, India
Research Projects (Major Grants/Research Collaboration)
Innovation Research Project granted by University of Delhi
Awards and Distinctions
<p>Qualified JRF/NET: CSIR (India)-2004</p> <p>Junior Research Fellow: CSIR (India)-2004 to 2006</p> <p>Senior Research Fellow: CSIR (India)-2006 to 2007</p> <p>Selected for attending NATO-ASI Green Chemistry summer school in Italy on sponsorship by Inter University Consortium Chemistry For the Environment, Italy- 29th Oct-10th Nov 2006</p>
Association With Professional Bodies
Other Activities