




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Pooja	Last Name	Saluja	Photograph
Designation	Assistant Professor					
Address	C4E-281, Janak Puri, New Delhi-110058					
Office Phone No.	0112519148					
Residence						
Mobile	9911052752					
Email	pujlibra@gmail.com					
Web-Page						
Educational Qualifications						
Degree	University/Institute				Year	
Ph.D.	Department of Chemistry, University of Delhi				2014	
M.Phil./M.Tech.						
PG	Hindu College, University of Delhi, India				2009	
UG	Hindu College, University of Delhi, India				2007	
Any Other Qualification						
Career Profile						

Shivaji College, University of Delhi	<i>Assistant Professor</i>	Aug 2016-present
Kirori mal college, University of Delhi	<i>Assistant Professor</i>	Feb 2016- April 2016
Shyam lal college, University of Delhi	<i>Assistant Professor</i>	Feb 2016- April 2016
Shivaji College, University of Delhi	<i>Assistant Professor</i>	Aug 2015- Oct 2015
Hindu College, University of Delhi	<i>Assistant Professor</i>	Jan 2015- April 2015
Acharya Narendra Dev College , University of Delhi	<i>Assistant Professor</i>	Jan 2015- April 2015
Shivaji College, University of Delhi	<i>Assistant Professor</i>	July 2014 - Dec 2014
Department of Chemistry, University of Delhi	<i>Teaching Assistant (UTA)</i>	April 2011- June 2014

Administrative Assignments

--

Areas of Interest/Specialisation

<ul style="list-style-type: none"> • Skilled in preparative synthetic techniques from mg to multi-gram scale. • Accomplished use of NMR spectroscopy –with regular use of ^1H, ^{13}C, ^{19}F, DEPT spectra and complicated structure elucidation of compounds based on these techniques. • Chromatographic methods-Flash chromatography. • Experienced in handling highly complex reaction mixtures and the efficient purification of small amounts of compounds. • Searching of information using databases such as Scifinder, Scopus, USPTO. • Proficient to operate scientific softwares such as ChemDraw, DELTA, WinGX, ORTEP. • Well versed in basic computing skills including MS-Office and Internet.
--

Subjects Taught

Organic, Inorganic and Physical Chemistry
Innovation Project/Research Projects (Major Grants/Research Collaboration)

Publications Profile (Research Papers/Books)

DBU: A Highly efficient catalyst for one-pot synthesis of substituted 3,4-dihydropyrano[3,2-c]chromenes, dihydropyrano[4,3-b]pyrans, 2-amino-4H-benzo[h]chromenes and 2-amino-4H-benzo[g]chromenes in aqueous medium, *Tetrahedron*, 2010, 66, 5637.

One-pot synthesis of biologically important spiro-2-amino-4H-pyrans, spiroacenaphthylenes and spirooxindoles using DBU as a green and recyclable catalyst in aqueous medium, *Synthetic Communications*, 2013, 24, 3239-3246.

DBU: A highly efficient catalyst for one-pot synthesis of substituted tetrahydro-4H-chromenes, tetrahydro[b]pyrans, pyrano[d]pyrimidines and 4H-pyrans in aqueous medium, *Journal of Heterocyclic Chemistry*, 2014, 51, 618-624

Lanthanum triflate catalyzed rapid oxidation of secondary alcohols using hydrogen peroxide urea adduct (UHP) in ionic liquid, *Synthetic Communications*, 2014, 44, 800-806.

An efficient and convenient approach for the synthesis of novel pyrazolo[1,2-a]triazole-triones and evaluation of their antimicrobial activities, *Australian Journal of Chemistry*, 2014, 67, 867-874

Synthesis of novel fluorescent benzo[a]pyrano[2,3-c]phenazine and benzo[a]chromeno[2,3-c]phenazine derivatives via facile four-component domino protocol, *Tetrahedron Letters*, 2014, 55, 3431-3435.

Task-specific ionic liquid catalyzed synthesis of novel naphthoquinone-urazole hybrids and evaluation of their antioxidant and *in vitro* anticancer activity, *RSC Adv.*, 2014, 4, 34594.

Application of acidic and basic TSIL in multicomponent reactions, *Journal of Indian Chemical Society*, 2014, 91, 1-11

A facile and green approach for the synthesis of spiro[naphthalene-2,5'-pyrimidine]-4-carbonitrile *via* a one-pot three-component condensation reaction using DBU as a catalyst, *RSC Adv.*, 2016, 6, 1307.

DBU mediated confluent approach for the one pot synthesis of novel 5-hydroxy pyrazolo[1,2-a][1,2,4]triazoles and their dehydration to novel pyrazolo[1,2-a][1,2,4]triazole derivatives, *Tetrahedron*, 2016, 72, 3986.

Catalyst free ethylene glycol promoted synthesis of spiro[indene-2,2'-naphthalene]-4'-carbonitriles and spiro[naphthalene-2,5'-pyrimidine]-4-carbonitriles *via* one-pot three-component reaction, *Tetrahedron Letters*, 2016, 57, 5852-5855.

Recent advances in the application of Meldrum's acid in multicomponent reactions, *Current Green Chemistry*, 2016, 4, 1-18.

A facile and convenient approach for the synthesis of novel sesamol-oxazine and quinolineoxazine hybrids, *Australian Journal of Chemistry*, 2017, 70, 1285.

Green Chemistry in environmental sustainability and chemical education, Springer, book doi- 10.1007/978-981-10-8390-7, year- 2018.

Chapter-2 Expedient synthesis of diverse spirooxindole via multicomponent approach In presence of green catalyst. Page no- 15-21

Green Chemistry in environmental sustainability and chemical education, Springer, book doi- 10.1007/978-981-10-8390-7, year- 2018.

Chapter-Synthesis of spiro-[Indene-2,2'-Naphthalene]-4'-Carbonitriles and Spiro [Naphthalene- 2,5' pyrimidine]-4 carbonitriles via one-pot three component reaction using Task specific ionic liquid. Page no- 111-118.

Conference/Seminar/Faculty Development Programme/Workshop

- Participated in DU-NERI workshop on "Atmospheric Science and Climate, 2009, held at Department of Chemistry, University of Delhi, India
- Participated in T3D-2010, International Symposium on Trends in Drug Discovery and Development, 2010, held at Department of Chemistry, University of Delhi, India
- Participated in 4th Indo-Italian Seminar on "Green Chemistry and Natural Products", 2010, held at Department of Chemistry, University of Delhi, India
- Participated and presented poster in Professor Ram Chand Paul International Conference on Emerging Trends in Chemistry, 2011, held at Department of Chemistry and Centre of Advanced Studies in Chemistry, Panjab University, Chandigarh, India
- Participated in workshop on "Green Chemistry: Chemistry for tomorrow's world", 2011, held at Department of Chemistry, University of Delhi, India
- Participated and presented poster in 14th National Symposium in chemistry & 6th CRSI-RSC Symposium in Chemistry, 2012, held at National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram, India
- Participated and presented poster in conference on Emerging Trends in Development of Drugs and Devices, 2013, held at Department of Chemistry, University of Delhi, India
- Participated and presented poster in National Seminar in Interdisciplinary Applications, 2013, Hansraj College, University of Delhi, India
- Participated in 16th CRSI National Symposium in chemistry, 2014, held at IIT Bombay, Mumbai, India

- Participated in 20th ISCB International Conference, 2014, held at Department of Chemistry, University of Delhi.

- Participated in National Conference in Chemistry, Environment & Harmonious Development, 2016, organized by Shyam Lal College, University of Delhi.

Participated in International Conference on Green Chemistry in Environmental Sustainability and Chemical Education, 2016, organized by Daulat Ram College, University of Delhi.

Participated as a Resource Person in Inspire Science Camp, Shivaji College, organized by DST, Govt. of India held during 14th-18th Dec., 2016.

Participated in Faculty Development Program cum Workshop on “Climate Across The Curriculum: Resources For Integrating Climate Topics In Discipline-Specific Teaching” of the TROP ICSU project on 13th and 14th October 2018 at Sri Venkateswara College (University of Delhi). The workshop is part of a Climate Education Project of the International Science Council.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

- Ph. D in Organic Synthesis, Department of Chemistry, University of Delhi, India (thesis entitled): “*Synthesis of Heterocycles using DBU, Gl. AcOH and TSIL, their Photophysical and Biological Studies, and Oxidations Catalyzed by La(OTf)₃*” under the supervision of Prof. J.M Khurana” (2009-2014)

Awards and Distinctions

- Qualified CSIR (UGC) NET for Junior Research Fellowship (JRF) and Lecturership held in June 2010.
- Awarded University Teaching Assistantship under the scheme Sch./UTA (Chem.)/ 2010/2553 at Department of Chemistry, University of Delhi
- Award for distinction in all five subjects in 10+2 level, Central Board of Secondary Education (CBSE), New Delhi
- Participated in National Science Olympiads and National level Science Talent Search Examinations
- Awarded with Delhi State Award (Bharat Scouts and Guides)
- Awarded 1st position in the Poster presentation on “Biofuels” in

National Symposium on

- **Emerging areas of Chemistry, held at Hindu College, University of Delhi on 1-3 December 2005**
- **Awarded 1st position in the Poster presentation on “DBU” in National Seminar, Chemistry In**

Interdisciplinary Application, held at Hansraj College, University of Delhi on 19th March 2013

Memberships

Other Academic Activities

Cultural/Extracurricular Activities

Delhi State awardee

Signature of Faculty Member