

## Curriculum Vitae

### Personal details

**Name:** Dr. Bashir Ahmad Dar  
**Nationality:** Indian  
**Gender:** Male  
**Marital status:** Married  
**Languages known:** English, Urdu, Kashmiri and Hindi  
**Present Address:** Darwa Wagoora Baramulla Kashmir 193101  
**Permanent Address:** Darwa Wagoora Baramulla Kashmir 193101  
**E-mail:** [bashir\\_15\\_dar@yahoo.com](mailto:bashir_15_dar@yahoo.com), [bdar181@gmail.com](mailto:bdar181@gmail.com)  
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### Objectives

Seeking a challenging career which utilizes my skills for implementing innovative and creative ideas in the field of chemistry, it also provides me with both job satisfaction and satisfactory remuneration. I would like to be extremely successful in my subject and field of activity through professionalism, perfection, intelligence, sheer talent and hard work.

### Career Chronology

- Assistant Professor (**University of Kashmir, North campus Delina, Baramulla Kashmir**) May 2015-Present
- Assistant Professor (**Post Graduate Department of Chemistry, Maulana Azad College, Aurangabad Maharashtra India**) Sep 2014-April 2015
- Senior Project Fellow (**IIIM Jammu**) Jan. 2014- Aug. 2014
- Senior Research Fellow (**IIIM Jammu**) Jan. 2012- Dec. 2014
- Junior Research Fellow (**IIIM Jammu**) July 2010- Dec. 2011
- Junior Research Fellow (**IICT Hyderabad**) Jan. 2009- Jun. 2010
- Lecturer (**Post Graduate Department of Chemistry, Maulana Azad College, Aurangabad Maharashtra India**) July 2007-December 2008
- Visiting Lecturer (**Post Graduate Department of Chemistry, Vasantroa Nayak College, of Science Aurangabad Maharashtra India**) July 2007-December 2008

### Brief academic profile

- **Ph. D.** (Chemistry), thesis entitled “**Preparation and characterization of clay supported catalysts and their application in organic chemical transformations**” University of Jammu, Jammu -180006, India 2012 - 2015
- **M. Sc. (Chemistry)**, Amravati University, Amravati, Maharashtra, India, with 1<sup>st</sup> class. Jun 2004-July-2006
- **B. Sc.** (Chemistry, Botany & Zoology), Govt. Degree College (boys), Baramulla (J&K), India, with 2<sup>nd</sup> class. March 2001-May-2004

### Awards/ achievements

- Council of Scientific and Industrial Research senior Research Fellow-CSIR SRF (India) 2011
- Council of Scientific and Industrial Research Junior Research Fellow-CSIR JRF (India) 2008

- Graduate Aptitude Test for Engineering -GATE (IIT India) 2007

### Scientific Skills

- Preparation of heterogeneous catalysts using techniques like Impregnation, precipitation-deposition, co-precipitation etc
- Characterization of heterogeneous catalysts using techniques like XRD, SEM, XPS, TEM, TGA/DTA, TPR, TPD, IR, BET, ICPMS and EDAX
- Development of new synthetic methodologies.
- Development of greener organic processes.
- Solid Phase synthesis of small molecules.
- Vapor phase organic transformations.
- Chemical transformations using methods like ultrasonication, microvaves and grinding etc.
- Characterization of compounds using spectral techniques like UV, I.R, NMR, and MS.
- Expertise in handling sensitive reactions and endured in purification of products in minor amounts.
- Good oral and written communication skills (Scientific research articles in English) with the ability to render complex scientific ideas into easily understandable concepts

### List of Publications

1. An expeditious N,N-dibenzoylation of anilines under ultrasonic irradiation conditions using low loading Cu(II)-clay heterogeneous catalyst. **Bashir Ahmad Dar**, Varsha Shrivastava, Amrita Bowmik, Mohammad Arif Wagay, Baldev Singh. Tetrahedron Letters 56 (2015) 136–141
2. Iodine catalyzed solvent-free cross-dehydrogenative coupling of arylamines and H-phosphonates for the synthesis of N-arylphosphoramidates under atmospheric conditions. **Bashir Ahmad Dar**, Nisar A. Dangroo, Amit Gupta, Aarti Wali, Mohammad Akbar Khuroo, Ram A. Vishwakarma, Baldev Singh. Tetrahedron Letters, 55, 9, 2014, 1544-1548
3. Montmorillonite clay Cu(II) catalyzed domino one-pot multicomponent synthesis of 3,5-disubstituted isoxazoles. Sandip B. Bharate, Anil K. Padala, **Bashir A. Dar**, Rammohan R. Yadav, Baldev Singh, Ram A. Vishwakarma. Tetrahedron Letters, Volume 54, Issue 27, 3 July 2013, Pages 3558-3561
4. Ultrasound promoted efficient and green protocol for the synthesis of 1, 4 disubstituted 1, 2, 3-triazoles using Cu(II) doped clay as novel catalyst. **Bashir Ahmad Dar**, Amrita Bhowmik, Amit Sharma, Parduman R. Sharma, Anish Lazar, A.P. Singh, Meena Sharma, Baldev Singh. Applied Clay Science, 80–81, 2013, 351-357
5. Clay entrapped Cu(OH)<sub>x</sub> as an efficient heterogeneous catalyst for ipso-hydroxylation of arylboronic acids. **Bashir Ahmad Dar**, Prince Bhatti, A. P. Singh, Anish Lazar, Parduman. R. Sharma, Meena Sharma, Baldev Singh. Applied Catalysis A: General, 466, 10, 2013, 60-67
6. Ultrasound promoted expeditious, catalyst-free and solvent-free approach for the synthesis of N,N'-diarylsubstituted formamidines at room temperature. **Bashir Ahmad Dar**, Syed Naseer Ahmad, Mohammad Arif Wagay, Altaf Hussain, Nisar Ahmad, Khursheed Ahmad Bhat, Mohammad Akbar Khuroo, Meena Sharma, Baldev Singh. Tetrahedron Letters, 54, 36, 4 2013, 4880-4884
7. Oxidative homocoupling of terminal alkynes under palladium, ligand and base free conditions using Cu(II)-clay as a heterogeneous catalyst. **Bashir Ahmad Dar**, Dushyant Vyas, Varsha Shrivastava, Saleem Farooq, Amit Sharma,

- Sadhana Sharma, Parduman R. Sharma, Meena Sharma, Baldev Singh. *Comptes Rendus Chimie*, Volume 17, Issue 4, April 2014, Pages 316-323
8. Clay encapsulated Cu(OH)<sub>x</sub> promoted homocoupling of arylboronic acids: an efficient and eco-friendly protocol. **Bashir Ahmad Dar**, Snehil Singh, Nalini pandey, A. P. Singh, Priti Sharma, Anish Lazar, Meena Sharma, Ram A. Vishwakarma, Baldev Singh. *Applied Catalysis A: General*, Volume 470, 30 January 2014, Pages 232-238
  9. Heterogeneous reusable catalyst, ultrasound energy and no solvent: a quick and green recipe for one-pot synthesis of  $\beta$ -phosphonomalononitriles at room temperature. **Bashir Ahmad Dar**, Nalini Pandey, Snehil Singh, R. K. Bamezai, Meena Sharma, Ram A. Vishwakarma, Baldev Singh. *Tetrahedron Letters*, Volume 55, Issue 3, 15 January 2014, Pages 623-628
  10. Chemistry and Biology of indoles and Indazoles: A mini-review. **Ali NA, Dar B. A., Pradhan V, Farooqui M.** *Mini-Reviews in Medicinal Chemistry* 2013 Oct;13(12):1792-800.
  11. Catalyst and solvent free, ultrasound promoted rapid protocol for the one-pot synthesis of  $\alpha$ -aminophosphonates at room temperature. **Bashir A. Dar**, Amrinder Singh, Akshya K. Sahu, Praveen Patidar, Meena Sharma, Baldev Singh. *Tetrahedron Letters* Volume 53, Issue 41, 2012, 5497–5502
  12. [1, 2, 4]-oxadiazoles: synthesis and biological applications. Rajesh O Bora, **Bashir Dar**, Vidya Pradhan and Mazahar Farooqui. *Mini-Reviews in Medicinal Chemistry*, 2014, 14, 355-369
  13. Recyclable clay supported Cu (II) catalyzed tandem one-pot synthesis of 1-aryl-1,2,3-triazoles. Shabber Mohammed, Anil K. Padala, **Bashir A. Dar**, Baldev Singh, B. Sreedhar, Ram A. Vishwakarma and Sandip B. Bharate *Tetrahedron* Volume 68, Issue 39, 30 September 2012, Pages 8156–8162.
  14. Fe-Al/clay composite: a novel heterogeneous, robust, recyclable and efficient catalyst for the one pot Solvent free synthesis of 3, 4 –Dihydropyrimidones. **Bashir A. Dar**, Praveen Patidar, Akshya K. Sahu, Meena Sharma, P. R. Sharma, Sanjay pandey, Baldev Singh\* *Journal of chemical science* 2013, Vol. 125 Issue 3, p545
  15. Heteropolyacid-Clay nano composite as a novel heterogeneous catalyst for the synthesis 2,3-dihydroquinazolinones. **Bashir A. Dar**, Akshya K. Sahu, Praveen Patidar, P. R. Sharma, Nagaraju Mupparapu, Dushyant Vyas, Sudip Maity, Meena Sharma, Baldev Singh. *Journal of Industrial and Engineering Chemistry* 19 (2013) 407–412
  16. Grinding-induced rapid, convenient and solvent free approach for the one pot synthesis of  $\alpha$ -Aminophosphonates using Aluminium pillared interlayered clay catalyst. **Bashir A. Dar**, Akshya K. Sahu, Praveen Patidar, Jyoti patial, Parveen Sharma, Meena Sharma, Baldev Singh. *Journal of Industrial and Engineering Chemistry*, Volume 19, Issue 3, 25 May 2013, Pages 732-738
  17. Ceria-Based Mixed Oxide Supported Nano-Gold as an Efficient and Durable Heterogeneous Catalyst for Oxidative Dehydrogenation of Amines to Imines Using Molecular Oxygen. **Bashir Ahmad Dar**, Meena Sharma, Baldev Singh. *Bulletin of Chemical Reaction Engineering and Catalysis*. 7 (1), 2012, 79 – 84
  18. Vapour phase conversion of glycerol to acrolein over supported nano sized copper. **Bashir A Dar**, Sumit Dadhwal, Gurkirpal Singh, Pankaj Garg, Pushpa Sharma, Baldev Singh. *Arabian Journal for Science and Engineering* January 2013, Volume 38, Issue 1, pp 37-40
  19. Pore-engineered silica-alumina: texture, acidity, and activity for conversion of longifolene to isolongifolene. Jyoti Patial **Bashir Ahmad Dar**, Parveen Sharma, Kusunuru Anil Kumar, P.R. Sharma, Shyam Kr Ray, Debaraj Mukharjee, Baldev Singh. *Monatshefte für Chemie / Chemical Monthly* (20 October 2011), pp. 1-5
  20. Isotherms and Thermodynamic Studies on Adsorption of copper on powder of shed pods of *Acacia Nilotica* **Bashir A Dar**, Abdo Taher, Abubakkar wani Mazahar Farooqui. *Journal of Environmental Chemistry and Ecotoxicology* Vol. 5(2), pp. 17-20, February 2013

21. Study of Isotherms of Sorption-Desorption of Acetic Acid from Waste Water on Low Cost Biomaterials. **Bashir A. Dar**, Mohsin Saudagar and Mazahar Farooqui. International Journal of Environmental Science: Development and Monitoring (IJESDM) Volume 2, Number 1 June 2011 pp.17-23
22. Supported nano gold a recyclable catalyst for green, selective and efficient oxidation of alcohol using molecular oxygen. **Bashir Ahmad Dar** and Mazahar Farooqui Orbital Elec. J. Chem., Campo Grande, 3(2): 89-93, 2011
23. Sand: A natural and potential catalyst in renowned Friedel Craft's acylation of aromatic compounds. **Bashir Ahmad Dar**, Mohd. Mohsin, Abdul Basit, Mazahar Farooqui. doi:10.1016/j.jscs.2011.03.004
24. Sulphated zirconia as an efficient heterogeneous and reusable catalyst for one pot synthesis of flavanones. **Bashir A. Dar**, Nisar Ahmad, Jyoti Patial, Parveen Sharma, Kushal Bindu, Sudip Maity, Baldev Singh Journal of Saudi Chemical Society doi:10.1016/j.jscs.2011.09.015

#### Research Experience (on Projects)

- Preparation and characterization of clay supported catalysts for organic chemical transformations
- Synthesis, characterization & catalytic applications of nanosized gold on ceria-based mixed oxides and supported ceria-based mixed oxides.
- Formulation process of turbutus B.M. syrup from (Glacier Pharmaceuticals LTD. Amravati Maharashtra).Turbutus B.M. syrup is an anti cough syrup containing bronchodilator and mucolytic agents.
- Adsorption of Acetic Acid, Cu, Ni, and Cr on Low cost Biomaterials. Adsorption is easy and cheap process for the water pollution control produced by toxic chemicals likes Cu, Ni, Cr ions and organic acids

#### Conferences and seminars attended

1. UGC Sponsored National Seminar on "Recent Research Trends in Chemistry" Milind College of science Aurangabad INDIA (15<sup>th</sup> to 16<sup>th</sup> June 2008)
2. INDO-NIMS WORKSHOP ON ADVANCED MATERIALS (INWAM-09) IICT, Hyderabad (22<sup>nd</sup> -23<sup>rd</sup> December 2009)
3. 12<sup>th</sup> CRSI National Symposium in Chemistry & 4<sup>th</sup> CRSI-RSC Symposium in Chemistry IICT Hyderabad & NIPER Hyderabad INDIA (4-7<sup>th</sup> February 2010)
4. Chemical Research Society of India NORTH ZONE MEETING 2011, University of Jammu, Jammu (22-24 September 2011)
5. 101<sup>st</sup> Indian Science Congress held at University of Jammu ( 3rd – 7th Feb 2014)

#### Journal reviewing assignments

1. Ultrasonics Sonochemistry
2. Mini Reviews in Organic chemistry
3. Journal of Molecular catalysis A: General
4. Chemical Engineering Journal
5. Molecules.
6. Arabian Journal of Chemistry.
7. Journal of Saudi Chemical Society.
8. Journal of Chemical Technology and Biotechnology.
9. Journal of Research in Environmental Science and Toxicology
10. International Journal of Medicine and Medical Sciences
11. Gazi University Journal of Science
12. Turkish Journal of Chemistry

#### Computer Proficiency

- Working knowledge in most of the chemical databases and good in computers.
- Navigate Mac OS, MS Windows, X windows, and UNIX.

- Proficient in Excel, MS Word, MS PowerPoint.
- Acquainted with Cambridge Structural Database.
- Structure Database (Scifinder, Thomson Pharma).
- Patent database searching.

#### Extra Curricular Activity

- Participated in a number of quiz and debate competition.
- Participated in under 19 national hand ball tournaments.
- Deep interest in sports especially hand ball and Cricket

#### Referees

##### **Dr. Baldev Singh**

Principal scientist

Indian Institute of Integrative Medicine, Jammu and Kashmir

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##### **Dr. Asif Ali**

Senior scientist

Indian Institute of Integrative Medicine, Jammu and Kashmir

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##### **Prof. Meena Sharma**

Professor in Chemistry

H.O.D.chemistry

Jammu University

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##### **Prof. Mazahar Farooqui**

Associate Professor in Chemistry.

Maulana azad college Aurangabad

Aurangabad University

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**Place:** India

**(Dr. Bashir Ahmad Dar)**