

Curriculum Vitae

I) General Information and academic background

1. Name (in Block Letters) :- **Dr. JADHAV BALU DADA**
2. Department :- **CHEMISTRY**
3. Current Designation :- Associate Professor
4. Sex :- Male
5. Marital Status :- Married
6. Nationality :- Indian
7. Address for correspondence :- Sharadchandra Pawar Mahavidyalaya, Lonand
Tal- Khandala, Dist. Satara. PIN-415521
8. Permanent Address :- Konark Residency F.No.2, Golibar Maidan,
Laxminagar Phaltan, Dist- Satara. 415523
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jadhavbalaso2472@gmail.com



11. Academic Qualifications:

Degree	Name of the Board/ University	Year of Award/ Passing	Percentage of marks obtained	Division/ Class/ Grade	Subject
Ph.D.	Savitribai Phule Pune University, Pune	2017	Awarded	-	Chemistry
M.Sc.	Shivaji University, Kolhapur	1995	75.00	First class With Dist ⁿ .	Organic Chemistry
S.E.T	Savitribai Phule Pune University, Pune	2000	Pass	Qualified	Chemistry

12. Period of teaching experience:

P.G. Classes (in years) : Nil

U.G. Classes (in years) : 21Years

13. Research Experience excluding years spent in M. Phil / Ph. D (in years) - 14 years

14. Fields of Specialization under the Subject / Discipline

(a) *Organic Chemistry* b) *Organometallics* c) *Environmental Chemistry*

(i) Research Publications in Referred peer reviewed Journals

1. Optical and morphological characterization of Bi³⁺ doped zinc oxide and its solar photocatalytic application
B.D. Jadhav, A.B.Patil and S.K. Pardeshi, *Journal of Optoelectronics and Advanced Materials* **2021**, 23 (1-2), 63-71
2. *In situ* quenching of monoarylbismuth (III) dihalides with nitrogen donor ligands: Isolation of adducts and their spectral characterization
B.D. Jadhav and S.K. Pardeshi, *Journal of Molecular Structure* **2018**, 1173, 876-884
3. Study towards the degradation kinetics of Vitamin C by Redox titrimetry in fresh pomegranate juices of Arakta cultivars
B. D. Jadhav and K.S.Ghadage, *Journal of International Academic Research for Multidisciplinary* **2018**, 6(10), 19-27
4. Synthesis and catalytic application of Pd complex catalysts: atom efficient cross coupling of triaryl bismuthines with haloarenes and acyl halides under mild conditions.
B. D. Jadhav and S. K. Pardeshi, *Journal of Applied Organometallic Chemistry* **2017**, 31(4), e3591
5. A facile and practical copper diacetate mediated, ligand free C-N cross coupling of trivalent organobismuth compounds with amines and N-Heteroarenes.
B. D. Jadhav and S.K. Pardeshi, *RSC Adv.* **2016**, 6, 14531-14537

6. An assessment of the variations in the ground water quality from Khandala and Phaltan tahsil, Maharashtra (India)
G. S.Wagh and **B. D. Jadhav**, *Journal of International Academic Research for Multidisciplinary* **2016**, 3(4): 211-217
7. Physico-chemical analysis of soils in drought prone zone of Khandala and Phaltan tahsil of Satara district in Maharashtra
B. D. Jadhav and G. S.Wagh, *Journal of International Academic Research for Multidisciplinary* **2016**, 3(4): 277-285
8. Physico-chemical properties, estimation of total sugars and vitamin C content of pomegranate cultivars Arakta and Gansesh: A comparative investigation
B. D. Jadhav and K. S. Ghadage *J. Chem. Pharm. Res.* **2015**, 7(8): 670-675
9. Impact of economical condition on human health: A case study of drinking water samples from lonand rural and hilly area
G. S.Wagh, **B. D. Jadhav**, M. N. Raste, S. R. Dange, M. R. Bhandare and R. J. Nale, *Journal of International Academic Research for Multidisciplinary* **2015**, 8(3): 278-287
10. PdCl₂ (bipy) complex catalyzed atom efficient cross coupling reaction of triaryl bismuthines with aryl halides under mild conditions
B. D. Jadhav and S.K. Pardeshi, *Bionano Frontier* **2015**, 8(3), 1-7
11. Bismuth chloride mediated allylation of carbonyl compounds in aqueous media: A mechanistic investigation
B. D. Jadhav and S.K. Pardeshi, *Tetrahedron Letters* **2014**, 55, 4948- 4952
12. New preparative methodology for the synthesis of triaryl bismuthines: Arylation of bismuth (III) carboxylate by sodium tetraaryl borate salts
B. D. Jadhav and S.K. Pardeshi, *Environment Observer* **2013**, 13, 43-44

(ii) Papers presented in Conferences, Seminars, Workshops, Symposia etc.

1. *Role of Amberlite IRA 400 Cl⁻ Resin as solid support and base in cross coupling of triaryl bismuthine with haloarenes under Pd catalysis: A mechanistic exploration*
XXXVIIIth Annual conference of Indian Council of Chemists, Department of Chemistry, Jaipur National University, Jaipur (Rajasthan) dated 26th-28th December, **2019**, OP-09, Page 85-86
2. *Luminiscent Tris(aryl) bismuthines: Synthesis, Characterization and photophysical properties*
International Conference on "Advances in Chemical Sciences (ACS-2019), Savitribai Phule Pune University and Department of Chemistry, S.M.Joshi College, Hadapsar (Pune) dated 18th-19th December, **2018**, OO page 62
3. *Catalytic performance of palladium (II) salen complexes in cross coupling of organobismuthines with acid chlorides: Synthesis of aromatic ketones*
36th Annual conference of Indian Council of Chemists, Department of Chemistry, Andra University, Vishakapattanam(Andra Pradesh), 16th-28th December, **2017**, OO-09, Page 85-86
4. *Bismuth chloride mediated prenylation of carbonyl compounds in aqueous media: An issue of regio and stereo selectivity*
35th Annual conference of Indian Council of Chemists, Department of Chemistry, H.V. Desai College, Pune, in association with College of Engineering, Pune, 22nd-24th December, **2016**, OP-11, Page 144-145
5. *PdCl₂ (bipy) complex catalyzed atom efficient cross coupling reaction of triaryl bismuthines with aryl halides under mild conditions*
International conference on Global Challenges- The role of Chemistry in giving their solutions, organized by S.G.M. College, Karad, during 24th-25th April, **2015**, page 1.
6. *Effect of Bismuth doping on the Zinc oxide and its solar photocatalytic activity towards degradation of methylene blue*
International Conference on Nanoscience, Nanotechnology and Advanced Materials (NANOS 2015), Organized by Department Chemistry, GITAM Institute of Science, Visakhapatnam, Andra Pradesh, India, 14th- 17th December **2015**, P-ENV-103, Page

- 7 *Palladium complex catalysts: Sustainable catalytic performance for cross-coupling of organobismuthines with halo arenes*
33th Annual conference of Indian Council of Chemists, Department of Chemistry, Indian School of Mines, Dhanbad (Jharkhand), 15th-17th December, **2014**, IP-09, Page 85-86
- 8 *New Preparative Methodology for the Synthesis of Triaryl Bismuthines: Arylation of Bismuth (III) Carboxylate By Sodium Tetraaryl Borate Salts*
National Conference on “Frontiers in Physical, Chemical and Biological Sciences” organized by Department of Chemistry, University of Pune, Pune, 4th-6th October, **2013**, OP-22, Page 43-44
- 9 *Pd (0) Catalysed Cross coupling reactions of Allylic halides and Aryl halides with Bismuth Organometallics*
32rd Annual conference of Indian Council of Chemists, Department of Chemistry, Dharwad University, Dharwad (Karnataka), 28th -30th November, **2013**, OP-18, Page 160-161
- 10 *Application of Organobismuth (III) compounds synthesized via diazotization route in N-arylation of Amines Under Copper Catalysis*
31st Annual conference of Indian Council of Chemists, Department of Chemistry, Saurashtra University, Rajkot, 26th -28th December, **2012**, OP-10, Page 159
- 11 *Synthesis and Characterization of organobismuth(III) compounds via diazonium salt decomposition*
National Seminar on “New Horizons in Applied Sciences” organized by Sharadchandra Pawar Mahavidyalaya, Lonand(Satara) during 14th-15th September, **2012**, page 84
- 12 *Barbier allylation of aldehydes and ketones with aluminum foil and catalytic Bismuth Chloride: an economical alternative*
National conference on “Perspectives of Chemical Sciences” organized by Department of Chemistry, Modern College of Arts, Science and Commerce, Shvajanagar, Pune, 23rd -25th February, **2012**, OP-15, Page 29

13 *Bismuth (III) Chloride Mediated Efficient Allylation of Carbonyl Compounds in Water*
 30th Annual conference of Indian Council of Chemists, Department of Chemistry,
 Osmania University, Hyderabad, 28th-30th December, 2011, OP-11, Page 132

iii) AWARDS

- 1) Awarded with **Prof. Venky Ramkrishan Award** for best oral paper presentation in the International Conference (Within Country) held at S.M.Joshi College, Hadapsar (Pune) from 18th-19th December, 2018
- 2) Recipient of **G.L.Talesara Award** for best oral paper presentation in Organic Chemistry Section of Annual Conference of Indian Council of Chemists held at Andhra University, Vishakhapatnam from 26th-28th Dec.2017
- 3) **Best oral paper presentation** award in the International Conference on “Contemporary Research in Chemical and Life Science 2015” held at Sadguru Gadge Maharaj College, Karad(Satara) from 24th - 25th April, 2015

iv) Completed Research Projects

Sr. No.	Title	Agency	Period	Whether Co-PI	Grant /Amount Mobilized (Rs. Lakh)
1	“Organobismuth mediated benzo(b) pyran synthesis for medical applications”	UGC F.No 47-755/09(WRO) dated. 13/08/2009	15/10/2009 to 17/10/2011	Principal Investigator	1.85 (completed)
2	Synthesis, Characterization and biological evaluation of bismuth(III) betathioxoketones derivatives as anti-leishmanial drugs.	UGC F.No 47-1157/14(WRO) dated. 08/01/2016	23/03/2017 to 22/03/2019	Principal Investigator	3.90 (completed)



(Dr. Jadhav Balu Dada)