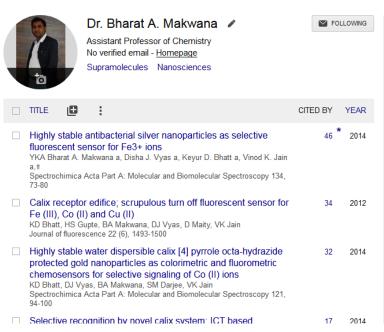
CURRICULUM VITAE



Dr. Bharat A. Makwana. Email:-bhrtchem1@gmail.com
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Co-authors			EDIT
Co-au	inors		
Co-au	Prof. (D	Or.) V. K. Jain University	>
Co-au	Prof. (D Gujarat Dr. Key		> Depart

EDUCATIONAL DETAILS:

Educational Qualifications:

Title of Thesis : "Prodigious Supramolecular Receptors Derived

From Calixarenes and Their Applications"

Field of Specialization : Supramolecular chemistry, Nanotechnology Fluorescence

study, Biological study.

Area of Research : Synthesis & characterization of supramolecules&

Nanoparticles eg.calixresorcinarenes, calixpyrrole, etc Silver, (AgNps), Gold Nanoparticle (AuNps), Copper

(CuNps) Pd, Fe, Si etc..

Ph.D:- From University School of Sciences, Chemistry Department Ahmedabad

Year: May -2009 – 2013

Synopsis Submitted (17-04-2013) Thesis Submitted (11-10-2013) Ph. D Viva (Degree 21-06-

2014)

M.sc-2:- From University School of Sciences, Chemistry Department Ahmedabad

AGGREGATE: 60 % (Organic) Year of passing: June -2008 M.sc -1:- From University School of Sciences. Ahmedabad.

AGGREGATE:55 % Year of passing: June- 2007.

B.sc:- From Shri R.K. Parikh Science Collage petlad, Gujarat University.

AGGREGATE: 70 % Year of passing: March-April 2006

Pre-Graduation:

Education	Board	percentage	Year of Passing
10+2	G.H.S.E.B	43%	2003
10 th	G.S.E.B.	82%	2001

COMPUTER SKILLS:

• Operating System : Windows 7, Millennium XP

• Package : MS Office 2007, 2010, 2013

• Computer Certif. : CCC Certif. (C-DAC) Computer as a voc. sub.

During F.Y. & S.Y. and Schooling.

Text Book Data entry (Gujarati), book of Gujarat State Text

Book Board, Gandhinagar.2005

RESEARCH EXPERIENCE

- Technical Assistant(Jan16 30 May 2009): at CSIR sponsored major project entitled "Calix[4]resorcinarene and its Derivatives: An Emerging Class of Receptors for ions/Organic analytes in Supramolecular Chemistry" Department of Chemistry, School of sciences, Gujarat University.
- **Junior Research Fellow** (May 2009 2011): At Department of Chemistry, School ofsciences, Gujarat University. (**RGNF SCHEME**).
- **Senior Research Fellow** (May 2011 till date): At Department of Chemistry, School of sciences, Gujarat University.(**RGNF SCHEME**)

EXPERIENCE

- Pursuing as **Assistant professor** at HVHP Institute of PG Studies and research, KadiSarva Vishwavidyalaya (KSV), kadi from 24/06/2013
- Acadamic experience: 3 year 6 Month as an Assistant of Prof.V. K Jain in Chemistry Department, School of Sciences.
- Worked as **Personal Tutor** in Chemistry (Classes handled- B.Sc&M.Sc Chemistry).
- I have experience at VASA PHARMACHEM PVT.LTD.

Till 1 year as an R & D Officer.

INSTRUMENTS HANDLED:

- Jasco FP-6500 spectrofluorimeter.
- Malvern Zetasizer (Model; ZEN3600) Partical Size Analyzer (**PSA**)
- Jasco V-570 UV-Vis spectrophotometer
- Bruker, tensor 27Infrared **FT-IR** Spectrometer,
- Aspect LS Analytical jinaAAS.
- Nanotrack MPA 150/250 DLS
- Inductively Coupled Plasma-Atomic Absorption Spectrometer (ICP-AES) JY 2000-2

PUBLICATIONS:

- 1. Novel calix[4]pyrrole octahydrazide, metal nanoparticles derived from it and use of the nanoparticles
 - **Bharat A. Makwana**, Disha J. Vyas and Keyur D. Bhatt, Vinod K Jain, (*Indian Patent*, *E-2503/2013-MUM*) (Published June 2015)
- 2. Water dispersible metal nanoparticles obtained from novel calix[4]resocinarene hydrazides and applications thereof
 - **Bharat A. Makwana**, Disha J. Vyas and Keyur D. Bhatt, Vinod K Jain, (*Indian Patent*, *E-3258/2013-MUM*) (Published June 2015)
- 3. Selective sensing of Copper(II) ions and Leucine using Fluorescent turn off-on Mechanism from Calix[4]resorcinarene Modified Gold Nanoparticles

Bharat A. Makwana*, Disha J. Vyas, Keyur D. Bhatt, Vinod K Jain

(Sensors and Actuators B: Chemical, 240, 278-287, 2017)

- 4. A Comparative Study: Metal Nanoparticles as Fluorescent Sensors for Biomolecules and Their Biomedical Application
 - **Bharat A. Makwana***, Disha J. Vyas, Keyur D. Bhatt, Vinod K Jain * (, Sensors and Actuators B: Chemical, 246, 686-6952017)
- 5. An Efficient One Pot Synthesis of Water-Dispersible Calix[4]arenePolyhydrazide Protected Gold Nanoparticles-A "Turn Off" Fluorescent Sensor for Hg[II] Ions Disha J. Vyas, **Bharat A. Makwana**, Hrishikesh S. Gupte, Keyur D. Bhatt, and Vinod K Jain, *Journal of Nanoscience and Nanotechnology* Vol. 12, 1–7, 2012.
- 6. Calix receptor <u>edifice</u>; <u>scrupulous</u> turn off fluorescent sensor for Fe(III), Co(II) and Cu(II)

- Keyur D. Bhatt, Hrishikesh S. Gupte, **Bharat A. Makwana**, Disha J. Vyasa, DebdeepMaityandVinod K Jain. *Journal of Fluorescence* (2012) 22:1493–1500.
- 7. Octa O- methoxy resorci[4]areneAmerlite XAD-4 polymeric chelating resin for solid phase extraction, preconcentration, separation and trace determination of Ni(II), Cu(II) Zn(II) and Cd(II) ions
 - Disha J. Vyas, **Bharat A. Makwana**, Keyur D. Bhatt, and Vinod K Jain, *American Journal of Analytical Chemistry*, 2013, 4, 238-251.
- 8. Highly stable antibacterial silver nanoparticles as selective fluorescent sensor for Fe³⁺ ions.
 - **Bharat A. Makwana**, Keyur D. Bhatt, Disha J. Vyas, Savan M. DarjeeandVinod K Jain, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy** 134 (2015) 73-80
- 9. Novel Calix[4]pyrrole OctahydrazideProtected Silver Nanoparticles as Selective Colorimetric and Fluorimetric Sensor for Hg(II) Ions in Aqueous Samples Keyur D. Bhatt, Disha J. Vyas, **Bharat A. Makwana**, Savan M. DarjeeandVinod K Jain, **Chinese chemical letter** 27, (2016),753-757
- 10. Selective recognition by novel calix system: ICT based chemosensor for metal ions, **Journal of Luminescence**, 146 (2014), 450–457.
- 11. Highly stable water dispersible calix[4]pyrrole octa-hydrazide protected gold nanoparticles as colorimetric and fluorometric chemosensors for selective signaling of Co(II) ions, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 121 (2014) 94–100
- 12. Green Synthesis of silver Nanoparticle using Leaf Extracts and their microbial activity **Bharat A. Makwana**, J. D Patel, U. Panchal, M Panchal **Journal of Advances** chemical sciences 1(3)(2015)82-85.
- 13. Synthesis & Spectroscopic Investigation Of Cu(Ii), Co(Ii) And Zn(Ii) Complexes Of Azo Dye Derived From Calix[4]Resorcinarene And Their Biological Screening, Hrishikesh S. Gupte, Keyur Bhatt, Vinod K. Jain and **Bharat A. Makwana**, wjpls, **2016**, Vol. 2, Issue 5, 89-101.
- 14. Solid Phase Extraction, Preconcentration and Sequential Separation of U(VI), Th(IV), La(III) and Ce(III) by Octa-O-methoxy resorcin[4]arene based Amberlite XAD-4 Chelating Resin,
 - VKJ Keyur D. Bhatt, Disha J. Vyas, Hrishikesh S. Gupte, **Bharat A Makwana** World Journal of Analytical Chemistry, 2 (2), 31-41
- 15. Synthesis and modeling of calix [4] pyrrole wrapped Au nanoprobe for specific detection of Pb (II): Antioxidant and radical scavenging efficiencies A Kongor, M Panchal, M Athar, **B Makwana**, G Sindhav, PC Jha, V Jain Journal of Photochemistry and Photobiology A: Chemistry, Volume 364, 1 September 2018, Pages 801-810.
- 16. Azo resorcin[4]calixpyrrole grafted Amberlite XAD-2 polymer: an efficient solid phase extractant for separation and preconcentration of La(III) and Ce(III) from natural geological samples
 Hrishikesh S. Gupte,Keyur D. Bhatt,Vinod K. Jain,Disha J. Vyas,Bharat A. Makwana
 Journal of Inclusion Phenomena and Macrocyclic ChemistryVolume 81, Issue 3–4, pp 409–422
- 17. Facile synthesis of silver nanoparticle and their potential application Ananya Shukla, Bharat A. Makwana American Journal of Nanoscience and Nanotechnology, 2014; 2(4): 84-92

PUBLISHED BOOK:

- 1. Synthesis of Prodigious Supramolecules and Their Characterization (**2014**) ISSN No 978-3-639-71075-5, Scholar press, Lambert publication, Germany
- 2. An Introduction to Supramolecules assemblies based on calixarenes (**2014**) ISSN No 978-3-639-71985-7, Scholar press, Lambert publication, Germany
- 3. Synthesis of some azocalix[4]pyrrole derivative and their applications(**2014**) ISSN No 978-3-639-66203-0, Scholar press, Lambert publication, Germany
- 4. Synthesis Of Acetyl Salicylanilide Derivatives And Microbial Activity(**2014**) ISSN No 978-3-659-57618-8, Lambert publication, Germany
- 5. synthesis and chacterizationofcalix[4]pyrrole derivatives via conventional and microwave irradiation method(**2014**) ISSN No 978-1-312-36035-8,LuLu publication, USA
- Pharmaceutical Interview Preparation Guide: Viva Voce for Pharma Industries(2018), ISBN-10: 6134905151 ISBN-13: 978-6134905152LAP LAMBERT Academic Publishing.

OTHER ACHIEVEMENTS:

- Charusat sponsored Best Thesis Award on 2014 from Gujarat Science academy
- Minor Research Project From GUJCOST, Gandhinagar, Get a Research Fund (2, 70.000).
- Board Of Studies (BOS) Member at C.U Shah University, Surendranagar.

• Date Of Birth: 1ST May, 1985

• Wife Name : Mrs. Dipali Bharat Makwana (Executive ADL)

• Father's Name : Mr. Ambalal.M.

• Mother's Name : Mrs. Kashiben. A.

• Nationality : Indian

• Languages Known : English, Hindi, and Gujarati.

• Interests : Enjoying movies and

Music, Bike ride, reading &Traveling

• Strength : Interest and devotion for field works,

Faith on god.

REFERANCE:

Dr. V. K. Jain Dr. (Mrs.) S.K. Menon

Research Guide & Professor & Head,

Professor Of Chemistry, Department of Chemistry,

Department of Chemistry, Ex, Director School of Sciences,

School of Sciences, Gujarat University,
Gujarat University,
Ahmedabad – 380 009,

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Mo .No 9327013263 drvkjain@hotmail.com

I hereby declare that all the statements stated above are true and complete to the best of my knowledge and belief and nothing has been concealed / distorted.

YOURS FAITHFULLY

Dr. Bharat A.Makwana