

CURRICULUM VITAE

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Objective

To aspire a challenging career in teaching and research where I can contribute towards organization goals and enhance my knowledge and skills to reach the pinnacle. To constantly develop training abilities through advance teaching methods and developmental programmes.

Current Position

Principal & Associate Professor, Oct. 2021

Director of Research, Silver Oak Institute of Science, Silver Oak University–Ahmedabad, Gujarat (India).

Educational Qualifications

CSIR-Post Doctoral Research Associate, 2019 to 2021

Department of Chemistry, Gujarat University–Ahmedabad, Gujarat (India).

Ph.D. in Chemistry, 2012-2018

Department of Chemistry, Gujarat University–Ahmedabad, Gujarat (India).

Master in Chemistry, Specialization in Organic Chemistry, 2010 to 2012. (76.54 %)

Department of Chemistry, School of Science, Gujarat University –Ahmedabad, Gujarat (India).

Bachelor in Chemistry, 2007 to 2010. (75.52%)

Department of Chemistry, M.G. Science Institute, Gujarat University– Ahmedabad, Gujarat (India).

Academic Experience

1) Associate Professor (Chemistry) in Silver Oak Institute of Science, Silver Oak University Ahmedabad (from 1st Oct., 2021).

Area of interest and specialization: To design, synthesize and characterize new functionalized supramolecular chemosensors derived from Calixpyrroles, Calix[4]resorcinarenes, Oxacalixarene, Azacalixarene and Thiocalixarenes. To study their binding behaviour towards various analytes (toxic and trace cations, anions, biomolecules, explosives and pesticides etc.) in environmental and biological samples. To use hydrazide derivatives of few Calix-systems as reducing as well stabilizing agent to yield highly stable and water dispersible nanoparticles. To synthesize and characterize calix protected metallic and bimetallic nanoparticles e.g. Copper, Silver, Gold, Platinum and Palladium nanoparticles. To explore them as chemosensors and nano catalyst in various organic reactions. To support and rationalize the findings of experimental observation with the help of computational methods (Molecular docking and dynamics).

Research guiding: Currently 2 Ph.D. students enrolled and 80 MSc students done their dissertation work.

2) CSIR-Post Doctoral Research Associate, 2019-2021

Research and academic summary:

Description: A spatial preference query ranks objects based on the functionalization of 3rd generation of supramolecules. For example, Synthesis of fluorescent supramolecular ligand. Qualitative & quantitative analysis using Fluorescent supramolecular Ligand (e.g., 4-NT, TNT, etc.)

Conducted theory and practicals of (M.Sc.) in Department of Chemistry, Gujarat University, Ahmedabad from 5th April 2019 to till date. Used to supervise post graduate students and Ph.D. scholars for their dissertation work.

3) Assistant Professor (Chemistry) in Centre for Engineering and enterprise (Chemistry), Institute of Advanced Research, Gandhinagar (from 26th July, 2018 to 4th April, 2019).

Additional responsibilities:

- Department of Physical Sciences Exam Coordinator (Bachelor Program and Master Program).
- Course Coordinator (Bachelor Program).
- Instruments In charge and Lab Safety (Bachelor Program and Master Program: Chemistry).
- Coordinator of Ph.D. coursework (Physical Science Program).

Supervisor in Master Projects:

1. Mr. Saurabh Vyas, 2018-19; Title: Synthesis of oxacalixarene derivative for the detection of explosive

2. Ms. Vishesta Chaudhary, 2018-19; Title: Synthesis of palladium nanoparticles based on oxacalixarene framework and its application in C-C cross coupling reaction

3. Ms. Nisha Thakar, 2018-19; Title: Synthesis of Supramolecular architecture for the detection of anions

4) Conducted theory classes and practical sessions for Master Program in Department of Chemistry, Gujarat University, Ahmedabad. (During Ph.D.) (2014 to 2017).

Project Supervision

Master projects (Mentoring in cooperation with Prof. V. K. Jain, Head, Department of Chemistry, Gujarat University, Ahmedabad, India)

1. Mr. Sohail Vora, 2017-18, Thesis: A novel fluorescent oxacalixarene based chemosensor for sensitive determination of 4-Nitro toluene and 2,3-Dinitrotoluene

2. Mr. Piyush Thesiya, 2017-18, Thesis: Naphthoyl appended oxacalix[4]arene: a fluorescence based chemosensor for nitro aromatic explosives

3. Ms. Deepika Patel, 2016-17, Thesis: Synthesis of dipyrrenecalix[4]pyrrolehydrazidederivative for the detection of guest analytes

4. Ms. Drishti Shah, 2016-17, Thesis: Colorimetric detection of mercury ion(ii) in aqueous media using calix[4]pyrrole functionalized silver nanoparticle.

5. Ms. Monika Radadiya, 2016-17, Thesis: Selective recognition of arsenic in water using novel calix[4]pyrrole wrapped gold nanoparticles

Skills Summary: _____

- Expertise in making draft regarding research proposals for National as well as international funding agencies.

- Expert in arranging seminar and workshop arrangements.
- Well versed with all the procedural details of purchasing highly sophisticated instruments, e-Tendering etc.
- Developed new courses i.e., Medical Coding, Clinical Research, QA Validation.

Industrial Experience

- Used to operate G.C. (Agilent-7890A and 7820A auto sampler & Shimadzu-14-B, 2014) and H.P.L.C (Agilent-1200 series auto sampler & Shimadzu-LC-2010 auto sampler, 2010-AD) for analysis of several products during night shift in Meghmani Industries limited, Vatva, Ahmedabad (**December 2011 to July 2012**).
- Used to operate G.C. for the analysis of various drugs in Torrent pharmaceuticals limited, Chatral, Kalol, Gandhinagar (**July 2012 to October 2012**).

Analytical Skills:

- In addition to my experience of operating sophisticated analytical instruments in Industry I have used to JASCO-Spectrophotometer, HORIBA Spectrofluorimeter, BRUKER -IR spectrophotometer and benchtop Magritek NMR though out my Ph.D.
- Very good in purification of compounds by TLC and Column chromatography.
- Very well conversant with Sci-finder. (Data base for Literature search).
- Do custom synthesis and research work on target molecule.
- I have good experience in working with BUCHI, JULABO Chiller, ILMVAC vacuum pump, REMI 5000rpm centrifuge and other small routine laboratory equipments

Area of Interest:

- Supramolecular chemistry and nanoscience.
- Catalytic Study by supramolecules as well as organic molecules.
- Biological study of Nano-materials & Sensors.
- Calixarene based Sensor and Devices

Paper Presented in National and International Conferences

- Presented a Poster in “**National conference – Supramolecules and Nano-Tech.**” held at Institute of Research and Development, GFSU, Gandhinagar on 18th-19th Oct., 2013.
- Presented a Poster in “**Confluence of Supramolecular Chemistry and Nanoscience**” organized by Department of Chemistry, Gujarat University and held at AMA, Ahmedabad on 27th-28th March, 2015.
- Presented a Poster in “**Royal society of Chemistry West India Section Research Scholars Meet 2016**”, Organized by Institute of Research and Development, Gujarat Forensic Science University on 19th March, 2016.
- Presented a Poster in “**National conference on Supramolecules and Forensic Nano-Tech.**” held at Institute of Research and Development, GFSU, Gandhinagar on 20th- 21th Jan., 2017.
- Presented a Poster in “**International conference on Supramolecules and Forensic Nanotechnology**” held at Institute of Research and Development, GFSU, Gandhinagar on 23 -24th Feb., 2018.
- Presented a Poster in “**National conference on Applied Materials Science**”, organized by Center for Applied Chemistry, School of Applied Material Science, Central University of Gujarat, Gandhinagar on 6th and 7th April, 2018.

Conferences /Seminars / Workshops attended / participated/Organizing

- Participated in “**International Conference on Emerging Trends in Chemical Sciences**” held at CUG, Gandhinagar on 14th-15th March, 2013.
- Participate in one-day workshop on “**HPTLC Training cum Seminar**” held at Department of Zoology, Gujarat University, Ahmedabad on 30th March, 2013.
- Participated in “**Chemistry Research Meet and Drug Discovery Symposium**” held at IIT, Gandhinagar on 24th-25th May, 2013.
- Participated in “**National Conference on Green Chemistry**” jointly organized by Gujarat Environment Management Institute (GEMI) and Institute of Research and Development, GFSU, Gandhinagar and held at GFSU, Ahmedabad on 23rd-24th September, 2013.
- Participated in “**16th National Symposium in Chemistry**” held at IIT, Bombay on 7th-9th February, 2014.
- Participated in a workshop on “**Intellectual Property Rights**” jointly organized by National Innovation Foundation and Gujarat University and held at Gujarat University, Ahmedabad on 8th October, 2014.
- Participated in “**Recent Trends in Cancer Research: From OM to OMICS**” held at GCRI, Ahmedabad on 24th November, 2014.
- Participated in “**Green Chemistry for the Environment**” organized by Chemistry Department, K. K. Shah Jarodwala Maninagar Science College, Ahmedabad and held at AMA, Ahmedabad on 12th January, 2015.
- Participated in “**Hands-on Training on Computational Methods in Drug Discovery**”, organized by Department of Chemistry, Gujarat University, Ahmedabad on 23rd and 24th June, 2016.
- Participated in “**Indo-US Workshop**” jointly organized by GFSU, Gandhinagar and Gujarat University, Ahmedabad and held at GFSU, Ahmedabad on 4th August, 2017.
- Participated in “**National seminar on Innovation in Chemical Sciences for Industries**”, organized by Departments of Botany, Chemistry, and Forensic Sciences Gujarat University, Ahmedabad on 5th August, 2017.
- Participated in “**Molecular Docking, Virtual Screening and Biologics Discovery**”, organized by Department of Chemistry, Gujarat University, Ahmedabad on 30th and 31st January, 2018.
- Participated in “**Indo-US Workshop**” jointly organized by GFSU, Gandhinagar, CSIR- IICT Hyderabad and Gujarat University held at GFSU, Ahmedabad on July 10-11, 2019.
- Participated in the webinar on “**Citizen Science, Plasma physics for sterilization and disinfection**”, organized by Gujarat Council on Science and Technology, Government of Gujarat, Gandhinagar on 2nd May, 2020.
- Participated in the webinar on “**CHEMISTRY: An Ocean for Career and Commercialization**”, organized by Department of Chemistry, Government Science College, Gandhinagar on 14th to 16th May, 2020.
- Participated in the three days webinar series on “**Integrity and Ethical Considerations in the Conduct of Research**”, organized by University Research Cell, Charotar University of Science and Technology, Changa on 21-23rd May, 2020.
- Participated in the national webinar on “**Catalysis and its application in pollution abatement-Smart Solutions**”, organized by Punjab University, Chandigarh on 28th August, 2020.
- Participated in one day webinar on “**Emerging Trends in Heterogenous Catalysis & New Challenges**”, organized by Navrachana University, Vadodara on 28th November, 2020.

- Organized one day National level workshop as a Convener on “**India’s Self-reliance on Science & Technology and Emerging as Global Pharm hub and Healthcare System**” held at Silver Oak University, Ahmedabad on 9th May, 2022.
- Organized webinar as a Convener on “**Nanotechnology in Environment Remediation**” held at Silver Oak University, Ahmedabad on 9th April, 2022.
- Organized one day National level Workshop as a Convener on “**Scientific Computing Using Python**” held at Silver Oak University, Ahmedabad on 14th March, 2022.
- Organized National science Day as a Convener on “**Integrated Approach in Science and Technology for a Sustainable Future**” held at Silver Oak University, Ahmedabad on 28th February, 2022.
- Organized webinar on “**Application of Plasma Technology and Career Opportunities in Department of Atomic Energy**” held at Silver Oak University, Ahmedabad on 27th January, 2022.

PUBLICATIONS:

1. The Chemistry of Nascent Oxacalix[n]hetarene (n≥4): A Review

Viren Mehta, Manthan Panchal, KrupalModi, Anita Kongor, Urvi Panchal, V. K.Jain*. Current Organic Chemistry, **2015**, 19, 1077-1096.

Publisher: Banthem Science, DOI: [10.2174/1385272819666150318221724](https://doi.org/10.2174/1385272819666150318221724)

(Impact Factor 2.18)

2. “Turn-off” fluorescence probe for the selective determination of pendimethalin using mechanistic docking model of novel oxacalix[4]arene

Manthan Panchal, Mohd. Athar, P. C. Jha, Anita Kongor, Viren Mehta, Keyur Bhatt, Vinod Jain*. RSC Advances, **2016**, 6, 53573-53577. DOI: [10.1039/C6RA05707A](https://doi.org/10.1039/C6RA05707A) [ISSN: 2046-2069](https://www.rsc.org/ISSN)

(Impact Factor 3.361)

3. Catalytic Activity of Recyclable Resorcinarene Protected Antibacterial Pd Nanoparticles in C-C Coupling reaction

Urvi Panchal, KrupalModi, Manthan Panchal, Viren Mehta, V. K. Jain*.

Chinese Journal of Catalysis, **2016**, 37(2), 250-57 [ISSN 1872-2067](https://www.cjoc.org/ISSN)

(Impact Factor 8.271)

4. Efficiently functionalized oxacalix[4]arenes: synthesis, characterization and exploration of their biological profile as novel HDAC inhibitors

Viren Mehta, Mohd Athar, PC Jha, Manthan Panchal, Krupal Modi, V. K.

Jain*. Bioorganic & Medicinal Chemistry Letters, **2016**, 26(3), 1005-10.

Elsevier Publication, DOI: [10.1016/j.bmcl.2015.12.044](https://doi.org/10.1016/j.bmcl.2015.12.044) [ISSN 0960-894X](https://www.elsevier.com/ISSN)

(Impact Factor 2.823)

5. Calix based nanoparticles: A review

Anita R. Kongor, Viren A. Mehta, Krupal M. Modi, Manthan K. Panchal, Urvi S. Panchal, Shuvankar A. Dey, Vinod K. Jain*.

Topics in Current Chemistry, **2016**, 374 (3), 28. DOI: [10.1007/s41061-016-0029-z](https://doi.org/10.1007/s41061-016-0029-z) [ISSN: 3401022](https://www.springer.com/ISSN)

(Impact Factor 9.060)

6. Synthesis of water-dispersible Pd nanoparticles using a novel oxacalixarene derivative and their catalytic application in C–C coupling reactions

Viren Mehta, Manthan Panchal, Anita Kongor, Urvi Panchal, V. K. Jain*.

Catalysis Letters, **2016**, 146 (8), 1581-1590. DOI: [10.1007/s10562-016-1781-y](https://doi.org/10.1007/s10562-016-1781-y) [ISSN 1011-372X](https://www.springer.com/ISSN)

(Impact Factor 3.186)

7. Green synthesis of silver nanoparticles using the leaf extracts and their microbial activity

JD Patel, U Panchal, M Panchal, BA Makwana

Journal of Advanced Chemical Sciences, **2016**, 1(3), 82-85 ISSN **2394-5311**

(Impact Factor NA)

8. Propyl phthalimide-modified thiocalixphenyl[4]arene as a “turn on” chemosensor for Hg(II) ions

Krunal Modi, Urvi Panchal, Viren Mehta, Manthan Panchal, Anita Kongor, V K. Jain*.

Journal of Luminescence, **2016**, 179, 378-383. DOI: [10.1016/j.jlumin.2016.07.019](https://doi.org/10.1016/j.jlumin.2016.07.019) ISSN 0022-2313

(Impact Factor 3.280)

9. Thiocalix [4] arene functionalized gold nano-assembly for recognition of isoleucine in aqueous solution and its antioxidant study

Savan M Darjee, Keyur Bhatt, Anita Kongor, Manthan Panchal, Vinod K Jain*.

Chemical Physics Letters, **2017**, 667, 137-145 ISSN 0009-2614

DOI: doi.org/10.1016/j.cplett.2016.11.048

(Impact Factor 2.029)

10. A turn-off fluorescence sensor for insensitive munition using anthraquinone appended oxacalix [4] arene and its computational studies

V Mehta, M Athar, PC Jha, AKongor, M Panchal, V. K. Jain*.

New Journal of Chemistry, **2017**, 41 (12), 5125-5132 ISSN **1144-0546**

(Impact Factor 3.599)

11. Quinoline appended oxacalixarene as turn-off fluorescent probe for the selective and sensitive determination of Cu²⁺ ions: A combined experimental and DFT study

Manthan Panchal, Mohd. Athar, P. C. Jha, Anita Kongor, Viren Mehta, Vinod Jain*

Journal of Luminescence, **2017**, 192, 256-262 (doi.org/10.1016/j.jlumin.2017.06.052) ISSN: 0022-2313

(Impact Factor 3.280)

12. Basketing nanopalladium into calix[4]pyrrole as an efficient catalyst for Mizoroki-Heck reaction

Anita Kongor, Manthan Panchal, Viren Mehta, Keyur Bhatt, DehinBhagat, Devayani

Tipre, Vinod K. Jain*. Arabian Journal of Chemistry, **2017**, 10 (8), 1125-1135. ISSN **1878-5379**

DOI: [10.1016/j.arabjc.2016.06.019](https://doi.org/10.1016/j.arabjc.2016.06.019)

(Impact Factor 5.165)

13. A switch off fluorescence probe towards Pb(II) and Cu(II) ions based on acalix[4]pyrrole bearing aminoquinoline group

Keyur D. Bhatt, Hemangini D. Shah, Manthan Panchal

Luminescence, **2017**, 32 (8), 1398-1404 ISSN:1522-7243

(Impact Factor 1.855)

14. Novel calix [4] pyrrole assembly: Punctilious recognition of F⁻ and Cu⁺² ions

KD Bhatt, H Shah, KM Modi, AKongor, M Panchal, VK Jain

Journal of Molecular Structure, **2017**, 1149, 299-306 ISSN: 222860

(Impact Factor 3.21)

15. Entrapment of toxic anions using calixarenes framework

Mohd. Athar, Anita Kongor, Manthan Panchal, P. C. Jha, Vinod Jain*

MOJ toxicol, **2017**, 3(6), 74

(Impact Factor NA)

16. Sensing of Ce(III) using di-naphthoylated oxacalix[4]arene via realistic simulations and experimental studies

Manthan Panchal, Mohd. Athar, P. C. Jha, Anita Kongor, Viren Mehta, Vinod Jain*

New journal of chemistry, **2018**, 42, 311. DOI: [10.1039/C7NJ02828H](https://doi.org/10.1039/C7NJ02828H)

(Impact Factor 3.599)

17. Heterogeneous hydrogenation using stable and reusable calix [4] pyrrole fenced Pt nanoparticles and its mechanistic insight

A Kongor, M Panchal, M Athar, V Mehta, K Bhatt, PC Jha, V. K. Jain*.
Applied Surface Science, **2018**, 437, 195-201 ISSN: 0169-4332.

(Impact Factor 6.707)

18. Heck-type olefination and Suzuki coupling reactions using highly efficient oxacalix[4]arene wrapped nanopalladium catalyst

Manthan Panchal, Anita Kongor, Viren Mehta, Keyur Bhatt, Vinod Jain*
Journal of Saudi chemical society, **2018**, 22, 558-568. DOI: [10.1016/j.jscs.2017.09.006](https://doi.org/10.1016/j.jscs.2017.09.006) ISSN
13196103

(Impact Factor 3.932)

19. Synthesis and modeling of calix [4] pyrrole wrapped Au nanoprobe for specific detection of Pb (II): Antioxidant and radical scavenging efficiencies

Anita Kongor, Manthan Panchal, Mohd. Athar, B Makwana, G Sindhav, P. C. Jha, Vinod Jain*
Journal of Photochemistry and Photobiology A: Chemistry, **2018**, 364, 801-810 ISSN 1010-6030

(Impact Factor 4.291)

20. Resorcinarene-Embedded Stable Silver Nanoparticles: A Fluorescent Nanoprobe for Pb(II) in Water

Divya Mishra, Anita Kongor, Manthan Panchal, Krunal Modi, Vinod Jain*
International Journal for Research in Applied Science & Engineering Technology, **2018**, 6 (1), 1360-1370 ISSN 2321-9653

(Impact Factor 6.887)

21. Selective fluorescence sensing of Cu (II) ions using calix [4] pyrrole fabricated Agnanoparticles: A spectroscopic and computational approach

Anita Kongor, Manthan Panchal, Mohd Athar, Prakash C Jha, Devendrasinh Jhala, Gaurang Sindhav, Naumita Shah, Vinod Jain*
Journal of Molecular Liquids, **2018**, 269, 467-475 ISSN: 18733166, 01677322

Impact Factor 6.633)

22. Facile construction of calix [4] pyrrole-templated gold nanoparticles: computational insights and application for efficient reduction of 4-nitrophenol

Anita Kongor, Manthan Panchal, Mohd Athar, Keyur Bhatt, PC Jha, Vinod Jain*
Gold Bulletin, **2019**, 52, 125-133 ISSN 2190-7579

(Impact Factor 2.020)

23. Structural motifs of oxacalix [4] arene for molecular recognition of nitroaromatic explosives: Experimental and computational investigations of host-guest complexes

Manthan Panchal, Anita Kongor, Mohd Athar, Krunal Modi, Chirag Patel, Shuvankar Dey, Manoj Vora, Kinjal Bhadresha, Rakesh Rawal, PC Jha, Vinod Jain*
Journal of Molecular Liquids, **2019**, 306, 112809 doi.org/10.1016/j.molliq.2020.112809

(Impact Factor 6.633)

24. A highly selective anthraquinone appended oxacalixarene receptor for fluorescent ICT sensing of F⁻ ions: an experimental and computational study

Manoj Vora, Anita Kongor, Manthan Panchal, Mohd Athar, Ashukumar Verma, Falak Panjwani, Pc Jha, Vinod Jain*doi.org/10.1007/s12039-020-01862-6
Journal of Chemical Sciences, **2020**, 132 (1), 1-10 ISSN 0974-3626

(Impact Factor 1.57)

25. Colorimetric and electrochemical sensing of As (III) using calix [4] pyrrole capped gold nanoparticles and evaluation of its cytotoxic activity

Anita Kongor, Manthan Panchal, Mohd Athar, Manoj Vora, Nidhi Verma, Alok Pandya, PC Jha, Kinjal Bhadresha, Rakesh Rawal, Vinod Jain*
Journal of Inclusion Phenomena and Macrocyclic Chemistry, **2020**, 98, 29-41 ISSN: 15731111, 13883127

(Impact Factor 1.633)

26. Calix [4] pyrrole stabilized PdNPs as an efficient heterogeneous catalyst for enhanced degradation of water-soluble carcinogenic Azo dyes

Anita Kongor, Manthan Panchal, Mohd Athar, Manoj Vora, Bharat Makwana, PC Jha, Vinod Jain* <https://doi.org/10.1007/s10562-020-03304-x>
Catalysis Letters, **2020**, 151(2), Pages: 548-558 ISSN 1011-372X

(Impact Factor 3.186)

27. Detection of small molecular toxins using azacalix[4]arene architecture and its theoretical investigations

Shuvankar Dey, Krunal Modi, Urvi Panchal, Manthan Panchal, Vinod Jain*
Journal of Molecular Liquids, **2021**, **337**, 116337

(Impact Factor 6.633)

28. A Review on Recognition of Explosives using Calixarene Framework

Mansi Panchal, Keyur D Bhatt, Krunal Modi, Manthan Panchal
Letters in applied Nanobioscience, **2021**, **1**, 3093-3101 ISSN: 2284-6808

(Impact Factor NA)

29. Oxacalix [4] arene derived dual-sensing fluorescent probe for relay recognition of Hg²⁺ and S²⁻ ions

Manoj Vora, Shuvankar Dey, Anita Kongor, Manthan K Panchal, Falak Panjwani, Ashukumar Verma, Vinod K Jain*
New Journal of Chemistry, **2021**, **45 (38)**, 17902-17908 DOI: 10.1039/D1NJ03953A ISSN 1144-0546

(Impact Factor 3.599)

30. Recent Advancements for the Recognition of Nitroaromatic Explosives Using Calixarene Based Fluorescent Probes

Vishv Desai, Manthan Panchal, Shuvankar Dey, Falak Panjwani, Vinod K Jain*
Journal of Fluorescence, **2021**, 32, 67-79, DOI: doi.org/10.1007/s10895-021-02832-y ISSN: 1053-0509

(Impact Factor 2.217)

31. Development of tBu-phenyl Acetamide Appended Thiocalix [4] arene as “Turn-ON” Fluorescent Probe for Selective Recognition of Hg (II) Ions

Ashu kumar Verma, Krunal Modi, Shuvankar Dey, Anita Kongor, Manthan Panchal, Manoj Vora, Falak Panjwani, VK Jain
Journal of Fluorescence, **2022**, 1-9 ISSN: 1053-0509

(Impact Factor 2.217)

32. Calix [4] pyrrole based scrupulous probe for track on of tryptophan: Host-guest interaction, in silico modeling and molecular docking insights

Ajay L Desai, Keyur Bhatt, Krunal M Modi, Nihal P Patel, Manthan Panchal, Anita Kongor, Chirag N Patel, Alan Liška
Chemical Physics, **2022**, 554, 111426 DOI: doi.org/10.1016/j.chemphys.2021.111426 ISSN: 0301-0104

(Impact Factor 2.348)

33. Design of bi-pyrene functionalized oxacalixarene probe for ratiometric detection of Fe³⁺ and PO₄³⁻ ions

M Vora, S Dey, A Kongor, M Panchal, A Verma, N Padhiyar, VK Jain*

Journal of Molecular Liquids, **2022**, **118601**

(Impact Factor 6.633)

34. Pyrene functionalized oxacalix[4]arene architecture as dual readout sensor for expeditious recognition of cyanide anion

Falak Panjwani, Shuvankar Dey, Anita Kongor, Anshu Kumar, Manthan Panchal, Krunal Modi, Manoj Vora, V K Jain*

Journal of Fluorescence, **2022**, 1-9, DOI: 10.1007/s10895-022-02924-3

(Impact Factor 2.217)

35. Green synthesis of silver nanoparticles using dietary antioxidant rutin and its biological contour

Kinjal Kubavat, Pooja Trivedi, Hafsa Ansari, Anita Kongor, Manthan Panchal, Vinod Jain, Gaurang Sindhav*

Beni-Suef University Journal of Basic and Applied Sciences, **2022**, 11 (1), 1-14, DOI:

<https://doi.org/10.1186/s43088-022-00297-x>

(Impact Factor 2.03)

36. Calixarene: The Dawn of a New Era in Forensic Chemistry

Himali Upadhyay, Uma Harikrishnan, Devanshi Bhatt, Namrata Dhadnekar, Kapil Kumar*, Manthan Panchal

Current Organic Chemistry, **2022**, 26 (2), 2005-2015, DOI: <https://doi.org/10.2174/1385272827666230118094847>

(Impact Factor 2.226)

37. Oxacalix [4] arene based dual-signalling fluorimetric and electrochemical chemosensor for the selective detection of nitroaromatic compounds

Manoj Vora, Manthan Panchal, Shuvankar Dey, Alok Pandya, Mohd Athar, Nidhi Verma, Ahmad Irfan, VK Jain*

Journal of Molecular Liquids, **2022**, **362**, DOI: <https://doi.org/10.1016/j.molliq.2022.119791>

(Impact Factor 6.633)

38. CHEF induced fluorometric sensing of Al³⁺ and picric acid with bioimaging in human peripheral blood mononuclear cell

Manoj Vora, Shuvankar Dey, Anita Kongor, Manthan Panchal, Ashukumar Verma, Pooja Trivedi, Gaurang Sindhav, Vinod Jain*

Journal of Photochemistry and Photobiology A: Chemistry, **2023**, **434**, **114253**, DOI: <https://doi.org/10.1016/j.jphotochem.2022.114253>

(Impact Factor 5.141)

Book Chapter:

Calix-Assisted Fabrication of Metal Nanoparticles: Applications and Theoretical Insights

Anita R Kongor, Manthan K Panchal, Vinod K Jain, Mohd Athar

CRC Press, 21st Century Nanoscience–A Handbook, **2019**, 15-1 eBook ISBN 9780367341558

Professional Membership

CRSI (Chemical Research Society of India) life time member

NACS (National Association of Chemical Security) Treasurer and Life time member

Hobbies and Interests

- Travelling to see different countries, their culture and their achievements towards good governance and livelihood.
- Fond of teaching students and instilling in them virtues like discipline, national pride and concern for downtrodden countrymen.
- Love cricket, as it teaches true sportsman spirit and tells us to put nation ahead of self, team spirit, adjust to the different situation and take win and defeat with the same poise.
- Reading books, listening music and songs.
- Yoga and meditation to keep myself fit and healthy.

Fellowship Awarded

- **CSIR-Post Doctoral Research Associate**, Department of Chemistry, Gujarat University– Ahmedabad, Gujarat (India) (2019).
- **UGC- BSR (Senior Research Fellow)**, Department of Chemistry, Gujarat University– Ahmedabad, Gujarat (India) (March 2016 to March 2018).
- **UGC- BSR (Junior Research Fellow)**, Department of Chemistry, Gujarat University– Ahmedabad, Gujarat (India) (March 2014 to March 2016).

Computer Skills

- Expertise in operating Windows OS, MS-Office, ChemSketch, ChemDraw, Internet surfing, etc
- Familiar with patent, literature search and knowledge of SciFinder, Science direct, SDBS, Scopus and various database searches.

Personal Profile

Full Name:	Panchal Manthan Kanaiyalal
Address:	6, Savan Appartment, GorNo Kuvo, Maninagar,A'bad-380008
Date of Birth:	13/05/1989
Gender:	Male
Nationality:	Indian
Cast:	SEBC
Known Languages:	Gujarati, English,Hindi
Marital Status:	Married
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References:

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All the information given above is completely authentic and sufficient but I will be glad to furnish any more information if needed.

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