

Dr. IRFAN AHAMED N. SHAIKH

Associate Professor & HOD
Dept. of Chemistry
SECAB Institute of Engineering
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<https://scholar.google.co.in/citations?user=egIvgM8AAAAJ&hl=en>
<https://www.scopus.com/search/form.uri?display=basic>
https://www.researchgate.net/profile/Irfan_Shaikh3

Career Objective:

- To obtain a challenging carrier in teaching and research field in Organic/Analytical/Pharmaceutical Chemistry that offers challenging opportunity for advancement of the Organization.
- Professional opportunity with an organization, where my commitment, skills, and team orientation will be of value and gives me a chance to update my knowledge and enhance my skill and experience.

Academic Qualifications:

Degree : **Doctor of Philosophy in Chemistry (Ph.D.,)**
Specialization : Organic Chemistry
Title : Synthetic Studies on Oleochemicals and novel Heterocycles: An approach for their Pharmacological Evaluation
University : Karnatak University, Dharwad
Year : August, 2014

Degree : **Master of Science (M.Sc.,)**
Specialization : Polymer Chemistry
University : Karnatak University, Dharwad
Year : 2006

Degree : **Bachelor of Education (B.Ed.,) (Teaching License)**
Specialization : Physical Sciences
University : Gulbarga University, Gulbarga
Year : 2021

Degree : **Bachelor of Science (B.Sc.,)**
Specialization : Chemistry, Physics & Mathematics
University : Karnatak University, Dharwad
Year : 2003

Degree : **Certificate in Computing (CIC)**
Specialization : Basics, Programming
University : Indira Gandhi National Open University
Year : 2002

Area of Research: Organic Chemistry, Polymer Chemistry, Material Science, Nanoscience, Membrane Science, Separation and Purification, Natural Products, Biofuels, Diesel Engine Exhaust, Medicinal Chemistry, SAP for Self-Healing Concrete, Chemical Kinetics.

Total Experience: **Teaching** – 12.6 years
 Industry – 02 years

Teaching Experience :

Present Position : **Associate Professor & HOD** at Dept. of Chemistry, SECAB Institute of Engineering & Technology, Vijayapur, Karnataka, INDIA.
06-05-2017 to till date

01-04-2020 to : Conducted online classes during pandemic COVID-19
Till date

03-06-2018 to till : **Examination Head**, SECAB Institute of Engineering & Technology, Vijayapur, Karnataka, INDIA.
date
NBA Coordinator and Research Coordinator for Basic Sciences

23-03-2021 to till : Scientific Committee Member in National Advisory Committee for
date **INSTITUTE FOR ENGINEERING RESEARCH & PUBLICATION (IFERP)**

01-08-2018 to till : **Teaching Assistant** at Dept. of Chemistry, SECAB's ARS Inamdar
date College for Women, Vijayapur

05-05-2016 to : **Assistant Professor & HOD** at Dept. of Chemistry, SECAB Institute of
06-05-2017 Engineering & Technology, Vijayapur, Karnataka, INDIA.

01-08-2014 to : **Coordinator (HOD) and Assistant Professor** at P.G. Dept. of Studies
04-05-2016 in Chemistry, Maratha Mandal College, Belagavi, Karnataka, INDIA.

Jan-2009 to : **Teaching Assistant** at P.G. Dept. of Studies in Chemistry, Karnatak
Dec-2013 University, Dharwad, INDIA.

Research Work guidance: **Ph.D.** : 03 Students working
M.Sc. : 08 projects completed
B.E. : 04 project guided

Reviewer: Saudi Pharmaceutical Journal, Elsevier Publication
Chemistry Select, Wiley-VCH Publication
Journal of Heterocyclic Chemistry, Wiley-VCH Publication
Chemical Data Collection, Elsevier Publication
Chemistry Africa, Springer Publication

Research Experience:

31-05-2008 to 01-06-2012 : Completed two Major Research Projects and gained four years of research experience in Organic, Analytical Chemistry & Natural Products Chemistry.

07-06-2011 to 01-06-2012 : SRF (**Senior Research Fellow**) for a period of one year under CSIR Major Research Project sponsored by **Council for Scientific & Industrial Research, New Delhi, INDIA**

31-05-2008 to 01-06-2011 : JRF (**Junior Research Fellow**) for a period of three years under UGC Major Research Project sponsored by **University Grants Commission, New Delhi, INDIA**

01-07-2006 to 15-01-2007 : Worked as **Project Assistant** on Polymer membranes and separation techniques sponsored by **Bharat Heavy Electricals Limited, Bangalore, INDIA**

Industrial Experience:

05-03-2007 to 28-05-2008 : Executive Officer in Quality Control Dept. at **Cipla Ltd**, Bangalore, Karnataka

July-2003 to April-2004 : Analyst in Quality Control Dept. for **IVAX Chemicals**, Dandeli, Karnataka

Awards/Fellowships:

- **Senior Research Fellowship (2011)** in CSIR Major Research Project by Council for Scientific and Industrial Research, New Delhi, No.01(2301)/09/EMR-II
- **Junior Research Fellowship (2008)** in UGC Major Research Project by University Grants Commission, New Delhi, Ref. No.33-296/2007 (SR)

Area of Expertise

- Experienced in liquid phase combinatorial synthesis of heterocycles.
- Costing and to make cost effective route for the projects.
- Synthesis of Metal oxide Nanoparticles, Polymer composites and Carbon Nanotubes by using techniques viz., Sol-gel, Hydrothermal, Chemical Vapor Deposition and Chemical Spray Pyrolysis.
- Excellent skills in Molecular modelling studies, Chromatography, distillation, high vacuum distillation, crystallization, precipitation and advanced research techniques.

- Interpretation of spectra of organic compounds by UV, IR, NMR and mass.
- Preparation of project report and documents.

Research Publications.

1. UmarFarooq R. Bagwan, **Irfan N. Shaikh**, Abdulazizkhan L. Harihar, Ramesh S. Malladi, Shiraj Hunagund. *Effect of TiO₂ and Gadolinium dopants on photocatalytic behavior for Acriflavine dye.* **Journal of Rare Earths**, 2020, 38, 234-240. Elsevier Publications. **Impact Factor – 3.104**
2. **Irfan N. Shaikh**, Kallappa M. Hosamani, Mahantesh M Kurjogi
Design, Synthesis and Evaluation of new α -aminonitrile-based benzimidazole biomolecules as potent antimicrobial and anti-tubercular agents
Arch. Pharm. Chem. Life Sci. 2018, 351(2) e1700205, 1-9. Wiley-VCH Publication
Impact Factor – 2.59
3. Umar F. Bagwan, Amit Terdale, **Irfan N. Shaikh**, Abdul-Aziz Khan Harihar
Kinetic Effect of Novel Osmium (VIII) for the Oxidation of Pyrazinamide by Copper(III) Complex and their Mechanistic Aspects. **Chemistry Africa (2018) 1:53–66, Springer Publication.**
4. **Irfan N. Shaikh**, Umar F. Bagwan, Imran N. Shaikh, Shirajahammad Hunagund, Mohammed Afzal. *Cu-catalyzed rapid synthesis of fluorinated Indole derivatives under Microwave irradiation.* **Chemistry Africa (2018) 1: 3–9, Springer Publication**
5. Shambulig Karabasannavar, Parvati Allolli, **Irfan N. Shaikh**, B.M. Kalshetty,
Synthesis, characterization and antimicrobial activity of some metal complexes derived from thiazole Schiff Bases with In-vitro cytotoxicity and DNA cleavage studies. **Indian Journal of Pharmaceutical Education & Research**, 2017, 51, 490-501. **Impact Factor – 0.425**
6. Umarfarooq R Bagwan, A.L Harihar, S. D Lamani, **Irfan N Shaikh**, A.B. Teradale.
Uncatalyzed Oxidation of Anti Tuberculosis drug, Pyrazinamide by Cu(III) Complex in Aqueous Alkaline Media: A Kinetic Approach.
Research J. of Pharmaceutical Bio. & Chem. Science, 2017, 8(1), 1015-1026.
Impact Factor – 0.35
7. V.U. Vernekar, K. M. Hosamani*, **Irfan N. Shaikh** and Kavitha C.S.
PTA (H₃PO₄12WO₃xH₂O): An eco-friendly catalyst for the synthesis of new Schiff-bases containing benzimidazole moiety. **Arabian Journal of Chemistry (2016) 9, S663–S667. Elsevier Publication, Impact Factor – 4.762**
8. **Irfan N. Shaikh**, Umar F. Bagwan, Mahantesh M. Kurjogi, K. M. Hosamani.
Antimicrobial and anti-inflammatory activity of Schiff-base derivatives containing benzimidazole moiety. **European J. of Pharmaceutical & Medical Res.** 2016, 3(7), 457-462.

9. K.M Kotraswamy, **Irfan N. Shaikh**, S.R. Ankalgi, R.F. Ankalgi, Imran N. Shaikh, *Studies on industrially important Guttiferae and Palmae family.* **Journal of Pharmacognosy & Phytochemistry**, 2016; 5(6): 194-198. **Akinik Publications.**
10. Mohammed Afzal, P.S.Naik, L.I.Nadaf, **Irfan N. Shaikh**. *SnO₂-Surfactant Composite Films for Superior Gas Sensitivity.* **International Journal of Applied Physics**, 2016, 3, 1-5. (SSRG Publication) **Impact Factor – 0.4**
11. K.M Kotraswamy, **Irfan N. Shaikh**, S.R. Ankalgi, R.F. Ankalgi. *Occurrence of different fatty acids in Welwitschia and Haemodoeaceae Seed Oil of Possible Industrial Utilization.* **Int. J. Res. Phytochem. Pharmacol.**, 2014, 3(4), 1-6
12. **Irfan N. Shaikh**, K.M. Hosamani*, Harisha R.S and M.H. Hugar. *Synthesis and In-vivo Evaluation of Carbonyl-amide Linkage Based new Benzimidazole Derivatives.* **Arch. Pharm. Chem. Life Sci.** 2012, 345, 65–72. **Wiley-VCH Publication** **Impact Factor – 2.59**
13. **Irfan N. Shaikh**, K.M. Hosamani and M.M. Kurjogi. In-vitro Antimicrobial, In-vivo Analgesic and Anti-pyretic Activities of Carbonyl-amide Linkage Based Benzimidazole Derivatives. **Journal of Current Pharmaceutical Research**, 2011, 8 (1): 40-47.
14. S.K. Nataraj, S. Sridhar, **I.N. Shaikh**, D.S. Reddy and T.M. Aminabhavi. *Membrane-based microfiltration/electrodialysis hybrid process for the treatment of paper industry wastewater.* **Separation and Purification Technology**, 2007, 57 (1): 185-192. **Elsevier Publication** **Impact Factor – 5.774**

Instrumentation / Software

- Proficient in handling instruments like UV Lambda 20 (PerkinElmer), Bruker DPX-300 NMR Spectrometer, IR, Microwave reactor.
- GC and HPLC.
- Spray pyrolysis, Hydrothermal Autoclave, Chemical Vapour Deposition.
- Chemistry software like chemdraw, ACDS, chemifinder, Scifinder

Conferences/Workshops Attended:

1. **VTU-TEQIP 1.3 Sponsored Program** on MATLAB Based Artificial Intelligence Technique in Engineering Applications organized by SECAB Institute of Engineering & Technology, Vijayapur on 5th & 6th October, 2019.
2. **National Workshop: Nanoscience: Fundamentals to Basic Applications** Organized by Karnataka Science & Technology Academy and Department of Science & Technology held at KCP Science College, Vijayapur on 21-02-2019 and 22-02-2019.

3. **Workshop: 10th INUP Familiarization Workshop on Nanofabrication Technologies**, held at IIT Bombay, Mumbai from 30th November to 1st December, 2018.
4. **Workshop under Photovoltaic Users and Mentorship Programme (PUMP): NCPRE Familiarization Workshop on Photovoltaics**, held at IIT Bombay, Mumbai on 1st December, 2018.
5. **Faculty Development Programme: Functional Materials for Industrial Applications** from 23rd to 28th July, 2018 organized by Dept. of Chemistry & Physics, Ramaiah Institute of Engineering & Technology, Bengaluru, Karnataka.
6. **Workshop: NAAC's Revised Assessment & Accreditation Frame Work**, 29th July, 2018 at SECAB ARS Inamdar Arts, Science & Commerce College for Women, Vijayapur, Karnataka.
7. **State Level Seminar: Recent Advances in Nanomaterials** on 19th January, 2017 at Department of Chemistry, P.C. Jabin's Science College, Hubli, Karnataka.
8. **Workshop: Recent Advances in Chemistry** on 17th October, 2016 at P.G. Dept. of Studies in Chemistry, Maratha Mandal College, Belagavi, Karnataka.
9. **National Conference in Chemistry**, 22nd & 23rd August, 2014 at Department of Chemistry, J.S.S. College, Gokak, Karnataka.
10. **National Conference : INDIAN COUNCIL OF CHEMISTS XXXII Annual Conference**, 28th to 30th November, 2013 at Department of Chemistry, Karnatak University, Dharwad
11. **PG Science Special Lecture Series**: Held from 26th to 28th September, 2013 at Department of Chemistry, Karnatak University, Dharwad.
12. **National Conference**: UGC Sponsored NATIONAL CONFERENCE ON "RECENT ADVANCES IN CHEMISTRY – 2010" held on 18th March, 2010 at Department of Chemistry, Karnatak University, Dharwad.
13. **National Conference: INDIAN COUNCIL OF CHEMISTS XXIX Annual Conference** 19th – 21st December, 2010 at Department of Chemistry, Panjab University, Chandigarh.
14. **National Conference**: UGC Sponsored NATIONAL CONFERENCE ON "RECENT TRENDS IN DRUG DESIGNING" & "INNOVATIONS IN COATING, CONVERSION AND PRINTING OF PAPER". Held on 23rd & 24th January, 2009 at Bangur Nagar Degree College Dandeli.
15. **International Conference**: 45th Annual convention of chemists 2008 and International conference on recent advances in chemistry. 23rd to 27th November 2008, Karnatak University, Dharwad.

Personal Details:

Name : **Dr. IRFAN AHAMED. N. SHAIKH**
Fathers Name : **Nawab Jan A. Shaikh**
Date of Birth : 10-12-1980
Sex : Male
Marital Status : Married
Nationality : Indian
Passport Number : L7189920

Permanent Address

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References:**Dr. Manjunath D.H**

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