

Dr Sunil Dattatray Kumbhar

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Correspondence Address

C/O-Dr Anita J. Bodake, Department of Chemistry,

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Permanent Address

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Personal Information/Details

Nationality:- Indian

Gender:- Male

Birth Date:-14 November1989

Blood Group:- A ^{+ve}

Marital Status:- Married

Languages Known Marathi, Hindi, English, (Write, Read, Speak)

EDUCATION

1 Jan 2014

Working Ph.D Chemistry

Department of Chemistry, Rajaram College, Kolhapur and Department of Chemistry Shivaji University, Kolhapur, MS, India

Ph.D. Thesis Title: “SYNTHESIS AND PHOTOPHYSICAL STUDY OF SOME HETEROCYCLIC COMPOUNDS”

(Advisor: Dr. Anita J. Bodake, Rajaram College, Kolhapur and Prof. Govind B. Kolekar, Professor in Physical Chemistry, SUK)

June 2011 - April 2013	Master of Science (M.Sc.), <i>Applied Chemistry</i> (14th May 2013, 60.21%) Department of Applied Chemistry, Shivaji University, Kolhapur, MS, India
June 2008 - April 2011	Bachelor of Science (B.Sc.), <i>Chemistry</i> (12th May 2011, 60.80%) Department of Chemistry, Kisan veer Mahavidyalaya Wai, Satara

RESEARCH HIGHLIGHTS/INTERESTSES

Nanomaterials for Environmental & Energy Applications	Photophysical study of electrospun nanofibers incorporated with nanomaterials for sensing and detection applications (pharmaceuticals, pesticides, gas, humidity, etc.)
Material Science & Chemistry	Nanosensor for environmental, biomedical, pharmaceutical applications (detection) Photophysical, dynamics study of nanomaterials, biomolecules and its interactions
Spectroscopy & Photochemistry	Fluorescent probe, chemosensor, colorimetric probe (Turn-on/Turn-off) Photophysical & Excited state dynamics-Fluorescence quenching/enhancement Study of binding interaction between protein-drug interactions through FRET/SET Multispectroscopic analysis of fluorescent molecules, biomolecules (solvatochromism)

TEACHING EXPERIENCE

July 2014 - May 2019	Assistant Professor (M.Sc. and B.Sc Chemistry) Department of Chemistry, Rajaram College, Kolhapur (1st July 2014-15th May 2019) Teaching of theory & practical's to the B.Sc and M.Sc. students.
July 2014 - May 2018	Assistant Professor (B.Sc. Chemistry) Department of Chemistry, Mahila College, Kasaba Beed, Kolhapur (1st July 2014-15th May 2018) Teaching of theory & practical's to the B.Sc and students.

INSTRUMENTS HANDLED & SKILLS

Good Practice in Handling of Instruments:

- Spectrofluorometer (*Jasco, FP-750, FP-8300*)
- UV-Visible Spectrophotometer (*Shimadzu*)
- GC-MS (*Shimadzu QP-2010*)

Detailed Knowledge & Skills:

- Chromatographic techniques: HPLC, GC, GC-MS, IC, HPLC-MS, HP-TLC
- Spectroscopic methods: UV, IR, MASS, NMR

Chemistry Software & Computer Skills:

- Chem. Sketch, ISS draw, Sci-finder, MS-Office (Word, Excel, Power point)

SUBMITTED RESEARCH PUBLICATIONS

- **Investigation and spectroscopic interaction study between 5-substituted barbituric acid derivative and plasma protein bovine serum albumin.**
- **Binding impact of 3, 3-dimethyl -13- (4nitrophenyl)-3, 4-dihydro -2H-indazolo [1, 2-B] phthalazine-1, 6, 11(13H)-trione to bovine serum albumin: Advanced spectroscopic and molecular modeling investigations**
- **Molecular modeling and advanced spectroscopic tools use for interaction study between quinolone derivative and bovine serum albumin**
- **Spectroscopic methods use to investigate binding properties of the pyrimidine derivative and plasma protein bovine serum albumin**

PAPERS PRESENTED IN CONFERENCES/SEMINARS/WORKSHOPS

- Participated in, “Familiarization Workshop on Patents and IPR”, (8 February 2017) Rajaram College, Kolhapur.
- Participated in, “Application of Chemical and Material Science for Sustainable Development”, (20 february 2016) Shivaji University Kolhapur.
- Paper presented (Poster) in “6th Interdisciplinary Symposium on Materials”, (6 Dec. 2016) Chemistry Division Bhabha Atomic Research Centre, Mumbai.

- Participated in, “Revised Syllabus of B.Sc. III Chemistry Sem. V, Industrial Chemistry Paper XII and Sem VI, Analytical Chemistry Paper XVI”, (25 August 2015), Dahiwadi college, Dahiwadi.
- Participated in, “International Conference on Emerging Trends in Basic Applied Science”, (10 March 2015) Karmaveer Hire Arts, Science, Commerce and Education College, Gargoti.
- Participated in, “UGC-DAE Consortium For Scientific Research” (20-21 February 2015), Rajaram College, Kolhapur.
- Participated in, “Lead College Workshops”, (9 october 2015), Sharadchandra Pawar Arts, Commerce and Science College Asurle-Porle.

REFERENCES

Dr. Vasant B. Helavi (M.Sc., Ph.D.)
Assistant Professor (Organic Chemistry),
 Department of Chemistry,
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Prof. Govind B. Kolekar (M.Sc., Ph.D.)
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Dr. A.C. Bhasikuttan (M.Sc., Ph.D.)
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Dr. Nilotpall Barooah (M.Sc., Ph.D.)
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Dr. Prafulla Choudhari (M.Sc., Ph.D.)

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Dr. D. N. Zambare (M.Sc., Ph.D.)

Associate Professor (Inorganic Chemistry),
Department of Chemistry,
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I do hereby declare that the statement made in this application are true, complete & correct to the best of my knowledge and belief.

Date:

Place:

Yours Faithfully

(Mr. Sunil D. Kumbhar)