

## Staff Profile : Dr. Mrs. K. K. Patil



### Resume

|                     |  |
|---------------------|--|
| <b>Name</b>         | Dr. Mrs. Kranti K. Patil   |
| <b>Designation</b>  | Associate Professor, Chemistry Department, Rajaram College, Kolhapur- 416004 |
| <b>Address</b>      | 381-A/3, Chaitany, Katkar Mal, near Radhabai Shinde HIGhSchool, Kolhapur     |
| <b>E-mail</b>       | kranti301@gmail.com  |
| <b>Mobile</b>       | 9421290200   |
| <b>Telephone No</b> | 0231-2520200   |

### Academic Qualification

| Sr | Examination                    | Name of Board /Univ awarding Certi. / Degree | Year of Passing | %     | Division/ /Grade      |
|----|--------------------------------|--|-----------------|-------|-----------------------|
| 1  | S.S.C.                         | SSC Board Pune.                              | 1987            | 88.71 | First Class with dist |
| 2  | H.S.C.                         | HSC Board Pune.                              | 1989            | 78.17 | First Class with dist |
| 3  | B.Sc.                          | Shivaji University, Kolhpaur.                | 1992            | 82    | First Class with dist |
| 4  | M.Sc. (Organic Chemistry)      | Shivaji University, Kolhpaur.                | 1994            | 71.5  | 1st with Distinction  |
| 5  | SET                            | Pune University [as State Agency]            | 1995            | -     | pass                  |
| 6  | Other degrees, Dip-loma if any | Maharashtra State Technical Board, Mumbai.   | 2003            | -     | pass                  |
| 7  | Ph. D. (Chemistry)             | Shivaji University, Kolhapur.                | 11/ 11/2005     | -     | -                     |

### Title of the Research Degree

| Degrees | Title | Date of award | University |
|---------|-------|---------------|------------|
|---------|-------|---------------|------------|

|                       |   |            |                                 |
|-----------------------|---|------------|---------------------------------|
| Ph. D.<br>(Chemistry) | Kinetics And Mechanism Of Oxidations by Oxone | 11/11/2005 | Shivaji University,<br>Kolhapur |
|-----------------------|---|------------|---------------------------------|

### Positions Held

#### 1. Posts held in Government Service

| Sr | Designation                           | From      | Grade  |
|----|---------------------------------------|-----------|--|
| 1  | Lecturer                              | 29/7/1995 | 2200-4000(Ad-hoc basis)                              |
| 2  | Lecturer-regularisation               | 20/4/2002 | शा.नि.क्र SCP1001/( 204/01)/ M.S.-2 दिनांक 20/4/2002 |
| 3  | Lecturer – senior scale               | 5/5/2003  | 10000-15200/-  |
| 4  | Lecturer – Selection Grade (AGP 8000) | 5/5/2008  | 15600-37400/ -(AGP 8000)                             |
| 5  | Associate Professor (AGP 9000)        | 5/5/2011  | 37400/ -67000/-(AGP 9000)                            |

**Total Experience in Govt College: 22 Years**

#### Research Activities

**Students awarded Research Degree: 01**

| Sr. No | Name of the Student       | Ph.D/M.Phil /M.Sc T&D | Year of award | Title of the Research work  |
|--------|---------------------------|-----------------------|---------------|---|
| 1      | Miss Jyoti Devidas Sawant | Ph.D                  | July 2020     | Kinetics and Mechanism of oxidations of pharmaceutically important compounds by oxone |

#### Research Papers

##### 1. Published in international Journals

| Sr.No. | Title of paper   | Name of Journal             | ISBN No     | IMPACT | Year, Volume & page Nos |
|--------|--|-----------------------------|-------------|--------|-------------------------|
| 1      | Kinetics and mechanism of oxidation of alcohol                       | Indian Journal of Chemistry |             | -      | 2006, 45A, 1626-1630.   |
| 2      | Kinetics & mechanism of oxidation of DMSO by oxone catalysed by 12-- | J.Chem Pharm Res)           | 0975 – 7384 | -      | 2011                    |

|   |  |  |             |   |                                     |
|---|--|--|-------------|---|-------------------------------------|
|   | tungstocobaltate   |  |             |   |                                     |
| 3 | Kinetics & mechanism of oxidation of DMSO by oxone   | Der Chemicasinia   | 0976-8505   | - | 2011                                |
| 4 | Kinetics and mechanism of oxidation of paracetamol by an Anderson type 6-molybdocobaltate (III) in acidic medium | Transition Metal Chemistry                               | 0340-4285   |   | vol 44, Issue 2, Feb. 2019, 153-159 |
| 5 | Review on Kinetics of oxidation of Atenolol  | Aayushi international interdisciplinary research journal | 2349-638x   |   | Vol VI, Issue II, Feb 2019, 31-35   |
| 6 | Kinetics and mechanism of oxidation of glucose by an hexamolybdocobaltate (III) in acidic medium                 | Journal of emerging trends in research                   | 2349-5162   |   | vol.6, Issue 4, April 2019, 192-200 |
| 7 | Environment benign degradation of Chloramphenicol  | International journal of research and analytical reviews | 2349 - 5138 |   | Special issue ,2019                 |
| 8 | Kinetics and Mechanism of Oxidation of Metformin Hydrochloride by Hexamolybdocobaltate(III) in Acidic Medium     | Asian Journal of Chemistry                               |             |   | Vol. 33, No. 1 (2021), 15-20        |

## 2. RESEARCH PAPERS: Presented in Conferences, Seminars, Workshops, Symposia

| Sr. No | Title of paper  | Name of Conference   | Venu   | Date           | Status        |
|--------|---|--|--|----------------|---------------|
| 1      | Degradation of crystal violet by oxone and its mechanism    | UGC-SAP National Conference on advances in synthetic Methodologies       | Shivaji University; Kolhapur                 | Jan 2011       | National      |
| 2      | Synthesis and characterization of nickel sulphide thin film | International conference on Physics of Material based device fabrication | Shivaji University; Kolhapur Jan 2012        | 17-19 Jan 2012 | International |
| 3      | Kinetics & mechanism of oxidation of methylene blue by      | National Conference on recent researches in                              | Lokmanya Tilak Mahavidyalaya & Amaravati Uni | 14&15 Feb 2012 | National      |

|    |  |   |   |                       |               |
|----|--|---|---|-----------------------|---------------|
|    | oxone  | chemistry)  |   |                       |               |
| 4  | Degradation of waste water from dye industry by oxone                                    | International conference on "Water Management & water resources               | Shivaji University; Kolhapur                          | 21-22 Dec 2012        | International |
| 5  | Analysis of vitamin-C in Phyllanthus acidus  | National conference on Sacred Groves as repositories of ethnomedicinal plants | Rajaram College, Kolhapur                             | 2,3Feb 2013           | National      |
| 6  | Organometallic compounds used in various chemical reactions                              | National conference on Recent trends in organometallic chemistry              | Shahu College, Kolhapur 20-21                         | 20-21 Jan 2014        | National      |
| 7  | Kinetics & mechanism of Ru(III) catalysed oxidation of methylene blue by oxone           | International conference in Chemistry   | North Maharashtra University, Jalgaon                 | 6-8 Feb 2014          | International |
| 8  | Structural & morphological properties of PZT prepared through different synthetic routes | National conference on Materials for future Technology)                       | Rajaram College, Kop                                  | Kop 26, 27 Sept 2014. | National      |
| 9  | Microbial Synthesis: A green approach for synthesis of nanoparticles                     | National conference on Recent Trends & future Prospects in microbiology       | Rajaram College, Kop                                  | 4, 5 Sept 2014.       | National      |
| 10 | Preparation and characterization of lead iodide nanoparticles                            | International conference on Advances in Material Science                      | Raje Ramrao Mahavidyalaya, Jath                       | 7, 8 Nov 2016         | International |
| 11 | Oxidation of paracetamol by 6-molybdocobaltate(III)                                      | International conference on 'Advances in                                      | Department of Chemistry, Shivaji University, Kolhapur | Feb 2018              | International |

|    |  |   |  |               |               |
|----|--|---|--|---------------|---------------|
|    | in acidic aqueous solution :A kinetic and mechanistic study                                      | Chemical sciences'  |  |               |               |
| 12 | Kinetics and mechanism of oxidation of glucose by an hexamolybdocobaltate (III) in acidic medium | National conference on modern research tools in science           | G M Vedak College of Science,Tala,Dist Raigad          | Nov 2018      | National      |
| 13 | Environment benign degradation of Chloramphenicol-A Review                                       | International Conference on Advances in Pure and Applied Sciences | BalawantCollege,Vita                                   | Jan 2019      | International |
| 14 | Oxidative degradation of Atenolol :A Review  | Role of science and Technology in Multiculturalism                | SadashivraoMandlikMahavidyalaya,Murgud                 | March2019     | International |
| 15 | Metal catalysed microwave assisted functionization of alkyne and nitroalkenes                    | National conference on Concepts of green chemistry                | G.I. BagewadiArts,Science and Commerce College, Nipani | February 2020 | National      |

### Research Citation

| Research Citation | Index |
|-------------------|-------|
| Citation:         | 20    |
| h index           | 2     |
| i10 Index         | 1     |

### Member of Various Government and University Committees

| Sr.No | Names of the Committees                            |
|-------|--|
| 1     | Worked as Government nominee for teacher selection |

|    |   |
|----|---|
| 2  | Worked as Government nominee for CAS  |
| 3. | Worked as Government nominee for LAW CET, B.Ed /M.Ed CET  |
| 4. | Working as BOS member for syllabus reformation and curriculum designing for T.Y.B.Sc, S.Y. B.Sc., F.Y. B.Sc |
| 5. | Worked as member in the various affiliation committees of Shivaji university, Kolhapur                      |

### **Work on College Committee**

| Sr.No | Namers of the Comittee   |
|-------|--|
| 1     | Working as Co-ordinator of Time table committee (Science wing), Academic Planning                              |
| 2     | Worked as Member of Alumni meet Committee, Science Associaton, Academic Audit Committee, Examination committee |
| 3.    | Working as coordinator for B.Sc.III admission committee  |
| 4.    | Worked as Member of Science Club   |