**CURRICULUM VITAE**



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| Dr. Sonali Suhas Patil | |
| M.Sc. (Organic Chemistry), SET, Ph.D. | |
| Associate Professor, Department of Chemistry and Vice Principal of J.S.M. College, Alibag. | |
| Date of Joining at JSM college Alibag : 16/08/2001 | |
| **PERSONAL INFORMATION** | |
| Name | Dr. Sonali Suhas Patil |
| Date of Birth | 01/08/1974 |
| Place of Birth | Mumbai |
| Gender | Female |
| Nationality | Indian |
| E mail | Sonaligayu285@gmail.com |
| Contact number | 9270040426 |
| Postal address | A-11, Ekta Nagar, Near Tamboli Hospital, Ramnath Road, Chendhare, Alibag –Raigad 402201. |
| **CURRENT POSITION** | |
| 1. Associate Professor, Department of Chemistry and Vice Principal JSM College, Alibag- Raigad 402201, Maharashtra, India | |
| 1. IQAC Coordinator of JSM College Alibag Raigad | |

**ACADEMIC QUALIFICATIONS**

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| **Examinations** | **Name of the**  **Board/University** | **Year of**  **Passing** | **Percentage**  **of marks**  **obtained** | **Division/**  **Class/**  **Grade** | **Subject** |
| **S.S.C.** | Mumbai board | 1989 | 75.71 | I | Science, social studies,maths., English, hindi, Marathi |
| **H.S.C.** | Mumbai board | 1991 | 58.83 | II | Phys., Chem., Maths, Bio. English. Hindi |
| **B.Sc.** | Mumbai University, Mumbai | 1994 | 77.87 | I | Chemistry |
| **M.Sc.** | Mumbai University, Mumbai | 1996 | 68.57 | I | Chemistry |
| **SET** | SET, Pune university | March 1997 | -- | -- | Chemical Sciences |
| **P hD** | Jaipur National University, Jaipur, Rajashtan | 01-09-2014 | ---- | ----- | Extractive spectrophotometric Determination of Ni(II), Fe(III), Pb(II), Zr(IV) and Mn(II) by using 2,4-Dimethyl 3H-1,5 Benzodizepine as a new analytical reagent |

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| **RESEARCH SPECIALIZATION** | | | | | | | | |
| Extractive spectrophotometric determination of metal ions using new analytical reagents | | | | | | | | |
| **DISSERTATIONS AND THESIS** | | | | | | | | |
| Extractive spectrophotometric Determination of Ni(II), Fe(III), Pb(II), Zr(IV) and Mn(II) by using 2,4-Dimethyl 3H-1,5 Benzodizepine as a new analytical reagent | | | | | | | | |
| **COURSES TAUGHT** | | | | | | | | |
| Organic Chemistry (TY B Sc), Physical Chemistry (SY B Sc),Organic Chemistry (FY B Sc), Organic Chemistry (M. Sc. Part I) | | | | | | | | |
| **ACADEMIC EXPERIENCE** | | | | | | | | |
| Undergraduate: 21 years and Postgraduate: 21 years | | | | | | | | |
| **COMMUNITY SERVICES** | | | | | | | | |
| 1. Worked as NSS coordinator in the AY 2007 to AY 2011 | | | | | | | | |
| **ORAL AND POSTER PRESENTATIONS** | | | | | | | | |
| 1. Poster presentation on “Development of an extractive spectrophotometric method for determination of Cu(II) 2,4-dimethyl-3H-1,5 Benzodiazepine, 8-9 Dec 2014 at VES college of Arts Science and commerce college Chembur, Mumbai in International conference New Horizon in Chemistry. 2. Poster presentation on “Development of an extractive spectrophotometric method for determination of Pb(II) 2,4-dimethyl-3H-1,5 Benzodiazepine, 4-5 Oct 2013 at Karmaveer Bahurao Patil college Vashi, Navi Mumbai in National conference Recent Trends in Coordination Chemistry. 3. Poster presentation on “Development of an extractive spectrophotometric method for determination of Zr(IV) using 2,4-dimethyl-3H-1,5 Benzodiazepine, 18 Jan 2014 at Mahatma Phule Arts science and commerce college, Panvel, in National conference Recent Advances in Material Science. 4. Poster presentation on “Development of an extractive spectrophotometric method for determination of Mn(II) using 2,4-dimethyl-3H-1,5 Benzodiazepine, 15 Nov 2014 at Bhausaheb Nene college, Pen, in National conference Environmental issues: overview and Challenges. 5. Poster presentation on “Development of an extractive spectrophotometric method for determination of Fe(II) using 2,4-dimethyl-3H-1,5 Benzodiazepine, 8-9 March 2019 at JSM college Alibag, in International conference Recent Trends in Science.. | | | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Name of conference** | **International/National** | **Date** | **Place** | **Title of paper** | | Indian Council of Chemists Annual Conference | National | December 26-28 2012 | Saurashtra University. Rajkot | Development of an extractive spectrophotometric method for determination of Fe (II) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | National Symposium on Modern Research Trends in Sciences | National | January 22, 2013 | Sheth J. N. Paliwala College, Raigad | N,N”- O- phenylene (acetylacetoneimine) as a new analytical reagent for extractive spectrophotometric determination of Iron (III) | | National Conference on Recent Trends in Co-Ordination Chemistry | National | October 4-5 2013 | Karmaveer Bhaurao Patil college, Vashi | Development of an extractive spectrophotometric method for determination of Pb (II) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | National seminar on Recent Advances In Material Sciences | National | January 18, 2014 | Mahatma Phule college, Panvel, Raigad | Development of an extractive spectrophotometric method for determination of Zr (IV) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | National conference on Environmental Issues: Overview and challenges | National | November 15, 2014 | Bhausaheb Nene college, Pen | Development of an extractive spectrophotometric method for determination of Mn (II) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | International Symposium on New Horizons in Chemistry-2014 | International | December,8,9 2014 | Vivekananda college, Chembur, Mumbai | Development of an extractive spectrophotometric method for determination of Cu (II) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | International Conference on New Horizons in Synthetic and Material Chemistry | International | November 26-28, 2015 | University Department of Chemistry, Kalina, Mumbai | Development of an extractive spectrophotometric method for determination of Cr (II) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | National seminar on Advances in Materials Chemistry and Applications | National | December 21-22 2015 | CKT college, Panvel, Raigad. | Development of an extractive spectrophotometric method for determination of Zn (II) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | National seminar on Recent Development in chemical and Material Sciences | National | February 5,6 2016 | Dapoli Urban Bank Senior college, Dapoli | Development of an extractive spectrophotometric method for determination of Cd (II) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | State level conference on Science for Sustainable Development | State level | December 19, 2016 | Anandibai Pradhan Science college, Nagothane | Development of an extractive spectrophotometric method for determination of Cr (VI) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | National conference on Modern Research Trends in chemistry and Allied Sciences | National | February 25, 2017 | J.S.M. College, Alibag, Raigad | Development of an extractive spectrophotometric method for determination of Fe (II) using 2, 4-dimethyl -3H-1,5 benzodiazepine | | International Interdisciplinary conference on Recent Trends in Science | International | 8th and 9th March 2019 | IQAC cell and Deaprtment of Physics, Chemistry and Botany JSM college Alibag Raigad | Development of an extractive spectrophotometric method for determination of -------- using 2, 4-dimethyl -3H-1,5 benzodiazepine | | International E-conference on Recent Trends in Chemical Science, Physical Science, Life Science and Computer Technology (ICRTCPLCT–2022) | International | 29th March 2022 | Anjuman Islam Janjira Degree College of Science, Murud Janjira- Raigad | Extraction Spectrophotometric Determination of Rhodium (III) using 2, 4-dimethyl -3H- 1, 5 benzodiazepine as Fresh Analytical Reagent | |  |  |  |  |  |   **INTERNATIONAL/NATIONAL CONFERENCES/ SEMINARS WORKSHOPS ATTENDED** | | | | | | | | |
| 1. Attended 01 day workshop on “New dimensions of NAAC Accreditation Revisiting the SSR and AQAR in the Revised Accreditation Framework” on 08 August 2019 at VES college of Arts Science and commerce college Chembur, Mumbai. 2. Attended 02 days National Seminar on “Nano Technology: Fundamentals and Applications” on 27-28 April 2012 at CKT college New Panvel. | | | | | | | | |
| **Academic Staff College Orientation/Refresher courses attended** | | | | | | | | |
| **Name of the Course/**  **Summer Course** | | | **Place** | | **Duration** | **Sponsoring Agency** | | |
| Orientation courses | | | UGC-ASC, Mumbai University, Mumbai | | 16-11-2007 to 15-12-2007 | U.G.C. | | |
| Refresher courses | | | UGC-ASC, Mumbai University, Mumbai | | 04-12-2009 to 24-12-2009 | U.G.C. | | |
| Refresher courses | | | UGC-ASC, Mumbai University, Mumbai | | 21-11-2011 to 10-11-2011 | U.G.C. | | |
| Short term course | | | UGC-HRDC, Mumbai | | 20-11-2017 to 25-11-2017 | U.G.C. | | |
| 2-Week Faculty Development Programme on "MANAGING ONLINE CLASSES AND CO-CREATING MOOCS 3.0" | | | Teaching Learning Centre, Ramanujan College University of Delhi | | 25-07-2020 to 10-08-2020 | Ministry of Human resource development pandit madan mohan malaviya national mission on teachers and teaching | | |
| **Detail of publications** | | | | | | | | |
| **Sr.**  **No.** | **Nature of**  **publication**  **(Book**  **Review /**  **Research**  **Paper etc.)** | **List of author/s as it appear in the publication** | | **Name of the Book &**  **the publishers / Journal,**  **Issue no. and year of**  **Publication, page nos.** | | | **ISSN / ISBN**  **number** | **Impact factor**  **(in case of**  **journal)** |
| 1. | [Nanocrystalline CdSe: Structural and photoelectrochemical characterization](https://link.springer.com/article/10.1007/s13391-012-2069-z) | P.A. Chate, S.S. Patil, J.S. Patil, D.J. Sathe, P.P. Hankare | | Electronic Materials Letters, Vol.8, No.6 (2012), pp 553-558 | | | 1738-8090 | 1.790 |
| 2. | [Synthesis, optoelectronic properties and photoelectrochemical performance of CdS thin films](https://www.sciencedirect.com/science/article/pii/S0921452612010289) | P.A. Chate, S.S. Patil, J.S. Patil, D.J. Sathe, P.P. Hankare | | Physica B  [Condensed matter](https://pascal-francis.inist.fr/vibad/index.php?action=search&lang=en&terms=%22Physica.+B%2C+Condensed+matter%22&index=jo). 2013, Vol 411, pp 118-121 | | | 0921-4526 | 1.386 |
| 3. | Development of an extractive spectrophotometric method foe determination of Fe(III) using DBA as a reagent | Sonali Patil,R.S. Lokhande, S.B. Dharap,Poonam shevede, J.S. Patil | | International journal of Applied chemistry,Vol.9, No.2, (2013) pp133-140 | | | 0973-1792 | -- |
| 4. | Development of an Extractive spectrophotometric method for determination of Ni(II) using DBA as an analytical reagent | Sonali Patil,R.S. Lokhande, S.B. Dharap,Poonam shevede, J.S. Patil | | Inroads, Vol.2, No.2, July-December 2013, pp 98-101 | | | 2277-4904 | -- |
| 5. | Development of an Extractive spectrophotometric method for determination of Pb(II) using 2, 4-Dimethyl -3H- 1, 5 Benzodiazepine as an analytical reagent | Sonali Patil,R.S. Lokhande, S.B. Dharap, J.S. Patil | | International journal of research in chemistry and Environment, Vol.4, Issue 1, January(2014), pp74-78 | | | 2248-9649 | -- |
| 6. | Development of an Extractive Spectrophotometric Method for Determination of Sn(IV) using 2, 4-dimethyl-3H-1,5 benzodiazepine | Sonali S. Patil | | Review of Research, International online Multidisciplinary journal, December 2016, Vol.6, Issue 3, pp.34-38. | | | 2249-894X  (UGC Approved 48514) | 3.8014(UIF) |
| 7. | Development of an Extractive Spectrophotometric Method for Determination of Zr(IV) Using 2, 4-Dimethyl -3H- 1, 5 Benzodiazepine | Sonali S. Patil | | Journal of Applicable Chemistry, 2018, 7 (1): 204-211 | | | 2278-1862 | -- |
| 8. | Development of An Extractive Spectrophotometric Method for Determination of Cr (III) Using 2, 4-Dimethyl -3H- 1, 5 Benzodiazepine | Sonali S. Patil | | Journal of Applicable Chemistry,2017, 6 (5): 960-966 | | | 2278-1862 | -- |
| 9. | Development of an Extractive Spectrophotometric method for determination of Mn(II) using 2, 4-dimethyl-3H-1,5 benzodiazepine | Sonali S. Patil | | International journal of research in chemistry and environment, , Vol.6, Issue 4, October 2017, pp 28-31 | | | 2248-9649 | -- |
| 10. | [Development of an Extractive Spectrophotometric Method for Determination of Cr (VI) using 2, 4-dimethyl-3H-1,5 benzodiazepine](http://chemistry-journal.org/dnload/Sonali-S-Patil/CHEMISTRY-JOURNAL-CHJV08I04P0687.pdf) | Sonali S. Patil | | * Journal of Chemistry and Chemical Sciences, Vol.8(4), 687-692, April 2018 | | | ISSN 2229-760X (Print) ISSN 2319-7625 (Online) | -- |
| 11. | [Development of an Extractive Spectrophotometric Method for Determination of Ti(IV) using 2, 4-dimethyl-3H-1,5 benzodiazepine](http://chemistry-journal.org/dnload/Sonali-S-Patil/CHEMISTRY-JOURNAL-CHJV08I04P0687.pdf) | Sonali S. Patil | | Scholarly Research Journal of Interdisciplinary Studies, April-May, 2018, Vol. 7, Issue-39, pp. 28-33 | | | 2278-8808  (UGC Approved Journal 49366) | 6.177 |
| 12 | Development of an Extractive Spectrophotometric Method for Determination of V(V) using 2, 4-dimethyl-3H-1,5 benzodiazepine | Sonali S. Patil | | Review of Research, International online Multidisciplinary journal, Special issue on ‘RECENT TRENDS IN SCIENCE’, March 2019, pp.34-38. | | | 2249-894X  (UGC Approved 48514) | 5.7631 |
| 13 | Experimental Studies on Spectrophotometric Extraction for Estimation of Fe (II) Using an Analytical Reagent | Sonali S Patil | | Applied Ecology and Environmental Sciences, 2022, Vol. 10, No. 9, 568-572 | | | ISSN (Print): 2328-3912ISSN (Online): 2328-3920 |  |
| 14 | Spectrophotometric Extraction method for Estimation of Rhodium (III) Using Novel Analytical Reagent | Sonali S Patil | | Applied Ecology and Environmental Sciences, 2022, Vol. 10, No. 11, 685-690 | | | ISSN (Print): 2328-3912ISSN (Online): 2328-3920 |  |
| 15 | Application of Spectrophotometric Extraction for determination of Zn metal using novel analytical reagent | Sonali S Patil | | Applied Ecology and Environmental Sciences, 2022, Vol. 10, No. 12, 784-789  UGC Approved | | | ISSN (Print): 2328-3912ISSN (Online): 2328-3920 |  |
| 16 | [The Estimation of Small Metal Traces of Cd (II) from the Alloy and Water Effluents using Fast and Accurate Extractive Spectrophotometric Method with Newly Developed DBA Reagent](http://cwejournal.org/vol3no3/pthe-estimation-of-small-metal-traces-of-cd-ii-from-the-alloy-and-water-effluents-using-fast-and-accurate-extractive-spectrophotometric-method-with-newly-developed-dba-reagentp) | Sonali S Patil | | Current world environment (An International Research Journal of Environmental Science, 2022, Vol. 17, Issue 3, PP 815-825 )  UGC Approved | | | ISSN:0973-4929, Online ISSN:2320-8031 |  |
| **COMPLETED PROJECTS** | | | | | | | | |

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| **Sr. No.** | **Title** | **Agency** | **Academic Year** | **Whether Policy Documents/ Patents as outcome** |
| 1 | Development of Extractive Spectrophotometric Methods for Commercially important Metal ions | University of Mumbai | 2012-2013 | --- |
| 2 | "Screening of Mangrove associated Endophytic fungi: A novel source of Bioactive compounds".  Major Role: Co investigator  Project Cost : 30 Lacks | **Science and Engineering Research Board**  **(Statutory Body Established Through an Act of Parliament : SERB Act 2008) Department of Science and Technology, Government of India.**  **File Number: SPG/2022/001687** | 2022-2023 | Provisionally accepted |

**Chapter in Edited Book with ISSN / ISBN** (5 points per Chapter)

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| Sr.  No. | Title of Chapter with Page Nos. | Name of Book | Publisher Name  & ISSN /  ISBN NO. | No. of Co-Authors | Whether Principal Author / Co-Author | Self- Appraisal Score | API  Score Verified | Page No. of Relevant Documents |
| 1 | Environmental pollution its sources, effects and control, Nov 2022, PP 27-41 | Recent studies on Environment, plants and microbes. | IOT, India,  ISSN No: 9781716379338 | NIL | Principal Author | 5 |  |  |