

## **CV of Dr. A.S.Varale**



### **I. Personal Information**

Name : Dr. Amit Shrikant Varale  
Assistant Professor in Chemistry  
A.S.P.College, Devrukh-415 804  
Dist-Ratnagiri  
M.S. India

Designation : Assistant Professor

Date of Birth : 06.11.1979

Permanent Address : Sea Prince, Plot No.-103, Flat No-301,  
Near BalajiMandir, Sector-28(New),  
Nerul (W), Dist.-Thane  
Maharashtra, India, Pin-400706.

**Communication** : Mobile: 9702975004/8080290311.  
Email : [amitvarale@gmail.com](mailto:amitvarale@gmail.com)

### **Academic Information**

Qualification : M.Sc., B.Ed., M,Phil., Ph.D.

**II. Research Area** : Material Science

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**III. Teaching Experience** : Total UG and PG experience- 12 Years

**Under Graduate Level: 12 Years**

Assistant Professor in Chemistry at

1. Basavprabhu Kore Arts, Science and Commerce College, Chikodi Dist. Belgaum (From 2003 to 2004)
2. Devchand College, Arjunanagar (from 19.01.2005 to 30.04.2005) 3 Months 11 days
3. Devchand College, Arjunanagar (from 19.08.2004 to 30.04.2005) 8 Months 11 days
4. Devchand College, Arjunanagar (from 01.08.2005 to 30.04.2006) 9 Months
5. VCET Vasai ( 01.02.2009 to 04.06.2010) 1 year 4 Months 3 days.
6. Assistant Professor in Chemistry at Athalye- Sapre-Pitre College, Devrukh Dist-Ratnagiri, Maharashtra, India (From July 26, 2012 to till date)

**Post Graduate Level:10 Years**

1. Shivaji University, Kolhapur ( from04.01.2007 to 03.01.2008) 1 year
- 2.Changu Kana Thakur Arts, Commerce and Science College, New Panvel, Maharashtra, India (From 08.6. 2010 to 30.04.2011 and 13.06.2011 to 30.04.2012 and 07.06.2012 to 18.07.2012) 1 Year 10 months 20 days.
3. Athalye- Sapre-Pitre College, Devrukh Dist-Ratnagiri ( from 2016 to till date)

**IV. Achievements** :

- Recognized Guide for Ph.D. in Chemistry
- Recognized Teacher for M.Sc. (By Papers) and M.Sc.(By Research) in Organic Chemistry of University of Mumbai, Mumbai.
- Worked as a „Judge“ for 14th Inter-Collegiate/Institute/Department Avishkar Research Convention: 2019-20 (District Round)

**V. Member of Editorial Board** :

- Greener Journal of Physical Science,
- Greener Journal of Environmental Management and Public Safety,
- Greener Journal of Chemical Science and Technology,
- Greener Journal of Oceanography.

**Minor /Major research projects :**

- 1 .Minor research project sanctioned in 2013-14 and Completed, received by Mumbai University entitled “Study of Thermodynamic parameters for Oxidation of p-Hydroxy benzoic acid hydrazide by Thallium(III) in Acidic medium- A kinetic and Mechanistic Approach” Sanctioned amount Rs. 25,000/-.
2. Minor research project sanctioned in 2016-17 and Completed, received by Mumbai University entitled “Oxidation of n-Butyric acid hydrazide to its corresponding acid by Thallium(III) in acidic medium”- A Kinetic and Mechanistic approach” Sanctioned amount Rs. 30,000/-.

**VI. Research Publications- 50**

**National-09**

**International- 41**

1. **A. S. Varale** and N. P. Hilage Kinetics and Mechanism of Oxidation Reactions by Thallium(III) in Acidic Medium *Oxidation Communications.*, ISSN:0209-4541 31, No 3, 537– 545(2008). Peer Reviewed and Indexed with **Impact Factor 0.507. (Scopus Indexed)**
2. **A. S. Varale** and N. P.Hilage, Kinetic and Mechanistic study of oxidation of benzoic and p-Nitro benzoic acid hydrazides to their corresponding acids by Thallium(III) in acidic medium, *Oriental Journal of Chemistry.*, ISSN : 0970-020 X Vol. 24(2), 545-550(2008).Peer Reviewed and Indexed with **Impact Factor 0.463.**
3. V.Y.Sonavane, **A.S.Varale** and N.P.Hilage, Effect of various factors and and kinetic study of oxidation of 4-chloro phenyl ethanol by polymer supported Cr(VI), *Oriental Journal of Chemistry*, 25(3), 603-607,2009.
4. S.A.Kakade, A.S.Varale, V.Y.Sonavane and N.P.Hilage, Oxidation of 4-chloro benzyl alcohol by polymer supported chromic acid – Kinetic and Mechanistic study, *J.Ind.Chem.Soc.*, Vol. 86, 2009, 577-581.
5. **A. S. Varale** and N. P. Hilage, Oxidation of p- Toluic acid hydrazide by Thallium(III) in acidic medium : A Kinetic and Mechanistic study *Asian Journal of Chemistry.*, ISSN:0975-427X(Online) ISSN: 0970-7077 (Print) Vol. 21, No. 2 1265-1272 (2009)Peer Reviewed and Indexed with **Impact Factor 0.25.**
6. A. S. Varale and N. P.Hilage, Oxidation of nicotinic acid hydrazide by Thallium (III) in acidic medium : A Kinetic and Mechanistic study *International Journal of Chemical Sciences.*, ISSN: 0972-768X 7(3), 2173-2182 (2009). Peer Reviewed and Indexed with Impact Factor 0.12.
7. A. S. Varale and N. P. Hilage, Kinetic and Mechanistic study of oxidation of isonicotinic acid hydrazide by Thallium(III) in acidic medium, *International Journal of Chem Tech Research.*, ISSN: 0974-4290 Vol.1, No.2, 270-274, April-June (2009).Peer Reviewed and Indexed.

8. A. S. Varale and N. P. Hilage, Comparative kinetic study of oxidation of Toluic acid hydrazides by Thallium(III) in acidic medium, *Oxidation Communications.*, ISSN :0209-4541 32, No 4, 867–873 (2009). Peer Reviewed and Indexed with Impact Factor 0.398. (**Scopus Indexed**)
9. A.S.Varale, S.K Patil,K.R.Mhatre, V.K.Kene, S.R.Kamble, M.D.Patil Kinetic and Mechanistic Study of Oxidation of Salicylic acid Hydrazide by Thallium (III) in Acidic Medium,*International Journal of Chem Tech Research.*, ISSN : 0974-4290 Vol.3, No.1, 357- 363, Jan-Mar (2011).Peer Reviewed and Indexed.
10. **A. S. Varale** and N. P. Hilage, Comparative Kinetic and Mechanistic Study of Oxidation of Benzoic, o-toluic, p- Toluic Benzoic acid Hydrazides with Thallium (III) in Acidic Medium, *Oriental Journal of Chemistry.*, ISSN: 0970-020X Vol.27, No.(1), 113-118(2011).Peer Reviewed and Indexed with **Impact Factor 0.463**.
11. **A. S. Varale**, Y.S.Varale, Residual Chlorine Concentrations in Underground Water Samples Collected From Tube Wells of Nipani Town, *Universal Journal of Environmental Research and Technology.*,eISSN : 2249 0256 Volume 2, Issue 1: 105-107 (2012). Peer Reviewed and Indexed.
12. **A. S. Varale**, Y.S.Varale, Determination of BOD in the underground water of Nipani Town, *Journal of Chemical and Pharmaceutical Research.*, ISSN : 0975-73844(10):4601-4603 (2012).Peer Reviewed and Indexed.
13. **A. S. Varale**, Y.S.Varale, Study of phosphate present in the underground Water of nipani town, *Acta Chim. Pharm. Indica.*, ISSN: 2277-288X, 2(4), 163-167(2012). Peer Reviewed and Indexed.
14. **A. S. Varale**, Y.S.Varale and N. P.Hilage, Comparative kinetic study of oxidation of Heterocyclic acid hydrazides by Thallium(III) in acidic medium *Oxidation Communications.*,ISSN: 0209-4541 35, No 2, 371–377 (2012). Peer Reviewed and Indexed with **Impact Factor 0.398. (Scopus Indexed)**
15. **A. S. Varale**, Y.S.Varale, Assessment of magnesium content in industrial effluent of rural parts of nipani town and its impact on Human health, *J. Curr. Chem. Pharm. Sc.*, 3(3), 203- 205(2013).Peer Reviewed and Indexed.
16. **A. S. Varale**, Y.S.Varale, Study of total alkalinity present in the industrial effluent (water sample) of Nipani Town *Journal of Chemical and Pharmaceutical Research.*, ISSN : 0975-7384, 5(5), 226-229 (2013).Peer Reviewed and Indexed.
17. **A. S. Varale**, Y.S.Varale, Assessment of calcium content in industrial effluent of rural parts of Nipani town and its impact on human health *Journal of Chemical and Pharmaceutical Research.*, ISSN : 0975-7384 5(5):233-235 (2013).Peer Reviewed and Indexed.
18. **A. S. Varale**, Y.S.Varale, Oxidation of p-methoxy Benzoic Acid Hydrazide by Thallium(III) in Acidic Medium (A Kinetic and Mechanistic Study) *Oriental Journal of Chemistry.*, ISSN: 0970-020 X, Vol. 29, No. (2) 519-524 (2013). Peer Reviewed and Indexed with **Impact Factor 0.463**.
19. **A. S. Varale**, Y.S.Varale,Oxidation of o-toluic Acid Hydrazide by Thallium (III) in Acidic Medium (A Kinetic and Mechanistic Study) *Oriental Journal of Chemistry*, ISSN: 0970-020 X Vol. 29, No. (2) 667-672 (2013). Peer Reviewed and Indexed with **Impact Factor 0.463**.
20. Y.S.Varale, A. S. Varale, Synthesis, Mechanistic interpretation and kinetic approach of benzoic, p-methoxy,p-chloro benzoic acid hydrazides by Thallium(III) in acidic medium, ISSN 0972-768X., *Int. J. Chem. Sci.*: 12(3), 2014, 927-932.
21. **A. S. Varale**, Kinetics and Mechanism of the Selective Oxidation of Benzoic and Isonicotinic Acid Hydrazides to their Corresponding Acids by Thallium (III) in Aqueous 1, 4- Dioxane Medium, *International Journal of Science and Research.*, ISSN (Online): 2319-7064 Volume 3 Issue 11,

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- 249-251 (November 2014).**Impact Factor (2012): 3.358.**
22. **A. S. Varale**, Y.S.Varale, Study of Various factors on Oxidation of p-nitro benzoic acid hydrazide- A Kinetic and Mechanistic Approach, International Journal of Science and Research., ISSN (Online): 2319-7064 Volume 3 Issue 5, 1865-1867 (May 2014).**Impact Factor (2012): 3.358.**
  23. **A. S. Varale**, Y.S.Varale, Thermodynamic Approach for Oxidation of p-Chloro Benzoic Acid Hydrazide by Thallium (III) in Acidic Medium- A Kinetic and Mechanistic Study, International Journal of Science and Research., ISSN (Online): 2319-7064 Volume 3 Issue 5, 1857-1859 (May 2014). Peer Reviewed and Indexed with **Impact Factor (2012): 3.358.**
  24. **A. S. Varale**, Study of Thermodynamic parameters for oxidation of p-hydroxy benzoic acid hydrazide by Thallium(III) in Acidic medium- A kinetic and mechanistic approach, Oxidation Communications., 38, No 3, 1204–1212 (2015). Peer Reviewed and Indexed with **The Impact factor for 2013 is 0.507. (Scopus Indexed)**
  25. **A. S. Varale**, Synthesis, Mechanistic Interpretation and Kinetic Approach of m-Toluic acid hydrazide by Thallium(III) in Acidic medium , Oxidation Communications., 38, No 3, 1213–1220 (2015). Peer Reviewed and Indexed with **The Impact factor for 2013 is 0.507. (Scopus Indexed)**
  26. **A. S. Varale**, Oxidation of Picolinic Acid Hydrazide by Thallium(III) in Acidic Medium. A Kinetic and Mechanistic Approach , Oxidation Communications., ISSN:0209-4541, 38 No.4, 1562- 1569 (2015). Peer Reviewed and Indexed with **The Impact factor for 2013 is 0.507. (Scopus Indexed)**
  27. **A.S.Varale**, Kinetics and Mechanistic Approach of the Selective Oxidation of n-Butyric Acid Hydrazide to the Corresponding Acid by Thallium (III) in 1, 4- Dioxane Medium., International Journal of Science and Research (IJSR) ISSN (Online) 2319-7064: (June 2017) Volume 6 Issue 6, 948-952.**Impact Factor (2015): 6.391.**
  28. **A. S. Varale**, Oxidation of n-Valeric acid hydrazide to the Corresponding Acid by Thallium (III) in 1, 4-Dioxane Medium - A Kinetic and Mechanistic Approach., International Journal of ChemTech Research., ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.11 No.8, 108-114,2018.
  29. **A. S. Varale**, Oxidation of A Kinetic and Thermodynamic Approach of iso-butyric acid hydrazide by Thallium (III) in acidic medium in International Conference on Environment Development and Sustainability (ICEDS 2018) during 15th December 2018 organized by Department of Botany and IQAC, A.S.P. College, Devrukh Dist-Ratnagiri.
  30. **A.S.Varale**, Oxidation of iso-Valeric acid hydrazide to the Corresponding acid by Thallium (III) in 1, 4-Dioxane Medium - A Kinetic and Mechanistic Approach in International Conference on Environment Development and Sustainability (ICEDS 2018) during 15th December 2018 organized by Department of Botany and IQAC, A.S.P. College, Devrukh Dist-Ratnagiri.
  31. **A. S. Varale**, Kinetics and Mechanism of the Selective Oxidation of Benzoic and Picolinic acid hydrazides to their corresponding acids by Thallium (III) in aqueous 1, 4-Dioxane medium, published in proceeding of National Seminar on “ Emerging Trends in Basic Sciences” held on January 30, 2018 at Abasaheb Marathe College, Rajapur.
  32. **A. S. Varale**, A novel method for oxidation of p-bromo benzoic acid hydrazide by Thallium(III) in acidic medium, published in Aayushi International Interdisciplinary Research Journal (AIIRJ) ISSN 2349-638x Impact Factor 4.574. 2018, Special Issue No. 26, 1139-1144.
  33. **A. S. Varale**, Oxidation of Succinic dihydrazide to the Corresponding Acid by Thallium (III) in 1, 4-Dioxane Medium - A Kinetic and Mechanistic Approach in Print ISBN: 978-93-90149-42-1, eBook ISBN: 978-93-90149-13-1.

34. **A. S. Varale**, Oxidation of benz and p-Chloro benzhydrazide to their corresponding acids by Thallium (III) in acidic medium - A Kinetic and Mechanistic approach in Infokara Research ISSN 1021 9056 Volume 9 Issue 4, 85-97, 2020. ( UGC-CARE Approved).  
DOI:16.10089.IR.2020.V9I4.285311..3596
35. **A. S. Varale**, Oxidation of p-amino benzhydrazide to the Corresponding Acid by Thallium (III) in 1, 4-Dioxane Medium - A Kinetic and Mechanistic Approach, published in Journal of Emerging Technologies and Innovative Research (JETIR) ISSN 2349-5162 **Impact Factor - 7.95**, 2020, 7(3), 1607-1616. ( UGC- Approved).
36. **A. S. Varale**, An evaluation of Physico-Chemical parameters of Tube well water from Devrukh City,M.S.India. published in International Journal of Applied and Pure Science and Agriculture (IJAPSA) ISSN 2394-5532 Impact Factor 5.295, 2020, 6(3), 1-9.
37. **H.R.Deokar and A. S. Varale**, Oxidation of benzoic and n- Butyric acid hydrazides by Thallium (III) in Acidic Medium- A Kinetic and Mechanistic approach published in International Journal of Grid and Distributed Computing Vol. 13, No. 2, (2020), pp. 119 –125. (Web of Science).
38. Yashodhara Varale and **Amit Varale**, Study of Sulphate Water Quality in Tube Well Water Sample of Nerul,Navi Mumbai- Recent advances in Basic and Applied Sciences, Lambart Academic Publishing., Page Nos. 36-40, 2022. ISBN- 978-620-4-95588-9
39. Varale Yashodhara S. and **Varale Amit S.**Comparative Study of Oxidation of Benzoic and Salicylic acid hydrazides by Thallium(III) in acidic medium- Recent advances in Basic and Applied Sciences, Lambart Academic Publishing., Page Nos. 22-43, 2022. ISBN- 978-620-4-95588-9
40. Ajit Devale, Shubham Daphale, Sagar Sankpal, Narendra Tendolkar and **Amit Varale**- A novel method for Oxidation of Benzoic and p-amino benzoic acid hydrazides to their Corresponding acids by Thallium (III) in 1, 4-Dioxane Medium- Recent advances in Basic and Applied Sciences, Lambart Academic Publishing., Page Nos. 21-31, 2022. ISBN- 978-620-4-95588-9
41. **Amit S. Varale**, Yashodhara S. Varale, Sachin V. Bangale, Milind B. Ubale, G. S.Gokavi - Oxidation of benz and m-toluic acid hydrazides by Thallium(III) in acidic medium- Special Issue – Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences, ISSN- 2454 6348, 4-11,2022.
42. Shubham P. Pawar, Aniket S. Jadhav, **Amit S. Varale**-Applications of Aloe Vera: (A Review) - International Journal of Current Science- 2022 IJCSPUB | 962-975,Volume 12, Issue 4 November 2022 | ISSN: 2250-1770. Impact Factor-8.17.
43. **Amit Shrikant Varale**- A Comparative Study on the Oxidation of Acetic, n-butyric, n-Valeric acid hydrazides to their Corresponding Acid by Thallium (III) in 1, 4- Dioxane Medium - A Kinetic and Mechanistic Approach., International Journal of Scientific Research in Science and Technology Print ISSN: 2395-6011 | Online ISSN: 2395-602X (www.ijrst.com) Volume 9, Issue 16, November-December-2022-24-30. (**UGC Approved Journal No : 64011**).
44. Hrushikesh Deokar, Narendra Tendolkar, **Amit Shrikant Varale**- Comparative Study of Oxidation of benzoic, iso-butyric, iso-Valeric acid hydrazides to their Corresponding acids by Thallium (III) in 1, 4-Dioxane Medium - A Kinetic and Mechanistic Approach, High Technology Letters., ISSN NO : 1006-6748., 2023, Volume-29, Issue-4, 245-256. Impact factor-2.7 (Scopus Indexed).  
<https://doi.org/10.37896/HTL29.04/8423>. (**Scopus Indexed**)

45. Supriya Patil, Samadhan Nikalaje, **Amit Varale** - A Review on Synthesis of Silver Nanoparticles, Journal of Emerging Technologies and Innovative Research., ISSN NO : 2349-5162.,2023, Volume 10, Issue 7, 254-267.
46. Samadhan Nikalaje, **Amit Varale** - Hammett Correlations in the Chemistry of Thallium (III)-Induced Oxidation of Benzoic and m-Chlorobenzoic Acid Hydrazides in Acidic Medium., *Eur.Chem.Bull.*, ISSN NO : 2349-5162.,2023, 12 (s3), 6541-6550. (**Scopus Indexed**)
47. Samadhan Nikalaje, **Amit Varale**, Babasaheb Shinde, Narendra Tendolkar, Satish Manjare - Kinetic Study and Hammett Correlations in the chemistry of selected acid hydrazides by using Thallium(III) in 1,4-dioxane medium, Rasyan Journal of Chemistry., ISSN NO : 0974-1496, eISSN : 0976-0083., 2023, 16(4), 2042-2048.October-December-2023.
48. Samadhan Nikalaje, Sunil Zende and Amit Varale-Kinetic Study and Hammett Correlations in the Chemistry of M-Nitro and M-Amino Benzoic Acid Hydrazides by Using Thallium (III) in 1,4-Dioxane Medium, Oriental Journal of Chemistry., ISSN : 2231-5039, 2023, 39(6).
49. Akshada Ajay Khadpe, Lahu Arjun Ghule, Amit Shrikant Varale. - Synthesis of Zinc Oxide Nanoparticles by Microwave assisted Technique, Recent Advances in Material Science., LAP Lambert Academic Publishing., ISBN : 978-620-7-65373-7, 16-26. 2024.
50. Sushil M.Badade, Amit S.Varale, Shankar R.Thopate and Satish B.Majare., Plant-aided Biosynthesized Heterogenous Palladium Nanoparticles Catalyzed Suzuki Coupling Reaction: Review., Current Green Chemistry., ISSN (Online) : 2213-347X., 11(4),2024. (In Press). IF-1.1.

## VII. Experience on the Various Committees at A. S.P. College, Devrukh :

Chairman, Gymkhana Committee	(2013 to till date)
Co-ordinator, Aarogya,Swachata and Securittee Commiittee	(2019 to 2021)
Co-ordinator, Electoral Literacy Club	(2020 to 2021)
Member, Documentation Committee	(2019 to 2021)
Member, RUSA Committee	(2019 to 2021)
Member, Placement Cell and Entrepreneurship	(2019 to 2021)
Member, Library Committee	(2013 to 2014)
Member, Discipline Committee	(2014 to 2015)
Member, Attendance Committee	(2015 to 2016)

### **VIII. Experience of Examinations:**

- Worked as a Paper Setter for F.Y.B.Sc. Sem-II (Chemistry Paper-II) at University of Mumbai, Mumbai in April,2019.
- Worked as Examiner in Physical Chemistry for B.Sc. Practical Exams from 2013 to till date.
- Worked as Examiner in Organic Chemistry for M.Sc. Practical Exams from 2016 to till date.
- Worked as a Paper Setter for M.Sc.-II Sem-IV (Physical Chemistry- Paper-III Symmetry and Spectroscopy) at University of Mumbai, Mumbai in June, 2021 to till date.

### **IX. Worked as Reviewer for following Journals-**

1. Oriental Journal of Chemistry
2. International Research Journal of Pure and Applied Chemistry

### **X. Worked as a Member of Organizing Committee**

1. National Conference on Renewable Energy and Environment during 25-27 September 2014 organized by Department of Chemistry and Physics, ASP College, Devrukh.

2.National Conference on Conservation of Natural Resources and Biodiversity for Sustainable Development during 4<sup>th</sup> -6<sup>th</sup> December 2014 organized by Department of Botany, ASP College, Devrukh.

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### **XI. Worked as a Organizing Secretary -**

1. Worked as a Joint-Organizing Secretary in National Seminar (Online) on Current Trends in Medicinal Chemistry during 23<sup>rd</sup> to 25<sup>th</sup> March,2021 organized by A.S.P.College, Devrukh (Autonomous) Dist-Ratnagiri M.S.INDIA.

2. Worked as Organizing Secretary in National Seminar (Online) on Chess- A new era in lockdown on 23<sup>rd</sup> April 2021 organized by A.S.P.College, Devrukh (Autonomous) Dist-Ratnagiri M.S.INDIA.



## **XII.Worked as a Resource Person –**

1. Given Guest lecture at K.L.E.Society's Science and Commerce College, Kalamboli on Plastic free Society during 3<sup>rd</sup> July,2021.
2. Given Guest lecture at K.L.E.Society's Science and Commerce College, Kalamboli on Add-On certificate course for GATE and IIT-JAM to guide Under-graduate students during 3<sup>rd</sup> August 2021 to 18<sup>th</sup> August 2021.
3. Given Guest lecture at Doshi Vakhil Arts College, and G.C.U.B. Science & Commerce College, Goregaon Dist-Raigad on the topic – How to Write Research Articles and Select Best Journal for Publication in collaboration with Dr. Rafiq Zakaria College for Women, Aurangabad. during 12<sup>th</sup> February 2022.
4. Given Guest lecture at K.L.E.Society's Science and Commerce College, Kalamboli on Add-On certificate course for GATE and IIT-JAM to guide Under-graduate students during 29<sup>th</sup> August 2022.
5. Given lecture at A.S.P.College, Devrukh regarding Fellowship Opportunities for SC/ST/NT/OBC students organized by Equal Opportunity Cell on 14<sup>th</sup> March 2023.
6. Given lecture at A.S.P.College, Devrukh regarding Fellowship Opportunities for SC/ST/NT/OBC students organized by NSS & Equal Opportunity Cell on 07<sup>th</sup> April 2023.

## **XIII. Participation in Seminars / Workshops / Conferences -**

### **State/Regional -22**

### **National-21**

### **International- 18**

1. Attended in International Symposium on Drug Discovery and Process Research (DDPR) organized by Department of Chemistry, Shivaji University, Kolhapur held from 23<sup>rd</sup> to 25<sup>th</sup> January, 2003.
2. Attended and presented a poster in Campaign on University Research and Training (COURT)- 2006 held during 6<sup>th</sup> and 7<sup>th</sup> October 2006 in Shivaji University, Kolhapur.
3. Participated in Workshop on Frontiers in Physics and Chemistry, First Interdisciplinary Shivaji University (India) – Hanyang University (S,Korea) Bilateral Summit hosted by Department of Physics, Shivaji University, Kolhapur during 8<sup>th</sup> to 10<sup>th</sup> January 2007.
4. Participated in International Conference on Advanced Materials and Applications organized by Department of Physics, Shivaji University, Kolhapur during 15<sup>th</sup> to 17<sup>th</sup> November 2007.
5. Attended and presented a paper (orally) in Annual Convention of Chemists during 23<sup>rd</sup> to 27<sup>th</sup> December 2007 organized by Mahatma Gandhi Institute of Applied Sciences, Jaipur (Rajasthan).
6. Attended and presented a paper (poster) in National Seminar on Synthesis of New

- materials for Industrial applications during 1<sup>st</sup> and 2<sup>nd</sup> February 2008 organized by Department of chemistry, Shivaji University, Kolhapur.
7. Participated and presented a paper (poster) in International Conference on Advanced Materials held at Kottayam (Kerala) during 18<sup>th</sup> to 21<sup>st</sup> February 2008.
  8. Attended a workshop on Analytical Instrumental Techniques during 3<sup>rd</sup> -5<sup>th</sup> June 2008 organized by USIC, Shivaji University, Kolhapur.
  9. Participated and presented a paper (Oral) 45<sup>th</sup> Annual Convention of Chemists 2008 and International Conference on Recent Advances in Chemistry held at P.G. Department of Studies in Chemistry, Karnatak University, Dharwad during 23<sup>rd</sup> to 27<sup>th</sup> November 2008.
  10. Participated in International Conference on Nanomaterials and Applications held at Shivaji University, Kolhapur during 9<sup>th</sup> to 11<sup>th</sup> December 2008.
  11. Attended and presented a paper (orally) in National Seminar on Recent Advances in Chemical Kinetics, Coordination and Nano Chemistry (RACKCNC)- 09 during 23<sup>rd</sup> to 24<sup>th</sup> January 2009 Organized by Rajashri Shahu Mahavidyalaya, Latur. Awarded Second rank in oral presentation.
  12. Attended and presented a paper (orally) in National Conference on Chemistry of Materials (NCCM-2009) during 20<sup>th</sup> to 21<sup>th</sup> February 2009 organized by Department of Chemistry, University of Mumbai, Mumbai.
  13. Attended a Two week ISTE approved Short Term Training Programme on Advanced Linux Programming organized by Department of Information Technology, VCET, Vasai from 22<sup>nd</sup> June to 3<sup>rd</sup> July 2009.
  14. Participated in a National Seminar on Advanced Synthetic Methodologies and Functional materials during 23<sup>rd</sup> to 24<sup>th</sup> December 2009 organized by Department of Chemistry, Shivaji University, Kolhapur.
  15. Attended and presented a paper (orally) in National Seminar on Environmental Pollution and Monitoring during 17<sup>th</sup> to 18<sup>th</sup> September 2010 organized by Department of chemistry, Changu kana Thakur ACS College, New Panvel.
  16. Participated in Workshop on Organic Reaction Mechanism and Stereochemistry hosted by Department of Chemistry, Khalsa College, Matunga, Mumbai during 15<sup>th</sup> -18<sup>th</sup> November 2010.
  17. Participated in Workshop on Revised Syllabus in Inorganic hosted by Department of Chemistry, Sommayia College, Vidyavihar, Mumbai during 26<sup>th</sup> June 2010.
  18. Participated in a National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials held on 21<sup>st</sup> to 22<sup>nd</sup> January 2012 organized by Department of Chemistry, Shivaji University, Kolhapur.
  19. Attended and presented a paper (orally) in National Seminar on Current Trends in Chemical Research during 30<sup>th</sup> to 31<sup>st</sup> August 2012 organized by Department of Chemistry, Vasantrao Naik Mahavidyalaya, Aurangabad.
  20. Participated in International Conference on Sustainable Water Resource Development and Management during 20<sup>th</sup> to 21<sup>st</sup> December 2012 organized by Department of Environmental Science, Shivaji University, Kolhapur.
  21. Participated in Workshop on Revised Syllabus with Credit based Semester and Grading System for T.Y.B.Sc. hosted Jointly by Board of Studies in Chemistry and Department of

- 
- Chemistry, D.B.J. College, Chiplun on 6<sup>th</sup> March 2013.
22. Participated in Two day National level Seminar on The Prospects and Paradigms of Quality enhancement in HEI during 5<sup>th</sup> to 6<sup>th</sup> April 2013 organized by A.S.P. College, Devrukh Dist-Ratnagiri.
  23. Participated as a Member, Organizing Committee at the National Seminar on Nanotechnology : Fundamentals and Applications materials held on 27<sup>th</sup> to 28<sup>th</sup> April 2012 organized by Department of Chemistry, C.K.T. College, New Panvel Dist-Raigad.
  24. Attended Two days Workshop on Applications of Organic Synthesis in Pharmaceutical industry and Micro-scale Techniques in Physical Chemistry at Gogate-Jogalekar College, Ratnagiri during 27<sup>th</sup> -29<sup>th</sup> August 2013.
  25. Participated in One day Orientation Workshop conducted for specialized teaching for Competitive examinations held by Swa. Mohan and Vamanrao Modak Academy, Devrukh Dist-Ratnagiri on 1<sup>st</sup> September 2013.
  26. Comparative Study of Heterocyclic acid hydrazides by Thallium (III) in Acidic Medium ” presented in Two days national Symposium on “Current Trends in Chemical and Nano Sciences, during 17<sup>th</sup> and 18<sup>th</sup> January, 2014 at Shivaji University, Kolhapur.
  27. Participated in Workshop on Revised Syllabus with Credit based Semester and Grading System for F.Y.B.Sc. hosted Jointly by Board of Studies in Chemistry and Department of Chemistry, D.B.J. College, Chiplun on 10<sup>th</sup> April 2014.
  28. Attended and presented a paper (Poster) in UGC Sponsored National Conference on Frontiers in Chemical Sciences on 30<sup>th</sup> June 2014 organized by School of Chemical Sciences, Solapur University, Solapur.
  29. Attended and presented a paper (Poster) entitled A kinetic and Thermodynamic approach of Benzoic and p-Hydroxy benzoic acid hydrazides by Thallium(III) in acidic medium in UGC Sponsored National Conference on Renewable Energy and Environment during 25<sup>th</sup> – 27<sup>th</sup> September 2014 organized by A.S.P. College, Devrukh Dist-Ratnagiri.
  30. Participated in UGC Sponsored National Conference on Conservation of Natural resources and biodiversity for Sustainable development during 4<sup>th</sup> – 6<sup>th</sup> December 2014 organized by A.S.P. College, Devrukh Dist-Ratnagiri.
  31. Attended and presented a paper (orally) in National Conference on Environmental Issues : Overview and Challenges during 15<sup>th</sup> November 2014 organized by Department of Chemistry, Bhausaheb Nene ACS College, Pen.
  32. Attended and presented a paper (poster) in National Seminar on NanoScience: A Science of Twenty first Century during 29<sup>th</sup> November 2014 organized by Department of Chemistry, Mahatma Phule ACS College, Panvel.
  33. Participated in 102<sup>nd</sup> Indian Science Congress Association hosted by University of Mumbai during 3 to 7 January 2015.
  34. Attended and presented a paper (orally) in International Conference on Innovations in Chemical Research and Applied Chemical Sciences held on 12<sup>th</sup> -13<sup>th</sup> January 2015 organized by Department of Chemistry, CHM College, Ulhasnagar Dist-Thane.
  35. Completed the basic course on “ Remote Sensing, Geographical information system & Global Navigation Satellite System conducted by Indian Institute of Remote Sensing, Indian Space Research Organisation (ISRO) Department of Space, Government of

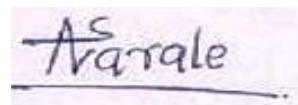
- INDIA from August 10 to November 27, 2015.
36. Attended and presented a paper (Poster) in UGC-SAP Sponsored International Conference on New Horizons in Synthetic and Materials Chemistry during 26<sup>th</sup> -28<sup>th</sup> November 2015 organized by Department of Chemistry, University of Mumbai, Mumbai.
  37. Attended and presented a paper (Oral) in a Two day Multi-Disciplinary International Conference on The Rise of New Russia during 29<sup>th</sup> -30<sup>th</sup> January 2016 organized Jointly by Centre for Central Eurasian Studies, University of Mumbai and Shailendra Education Society's Arts, Commerce and Science College, Dahisar, Mumbai.
  38. Participated in Workshop on Revised Syllabus with Credit Based Semester and Grading System in Chemistry for T.Y.B.Sc. hosted by Department of Chemistry, A.S.P.College, Devrukh during 3<sup>rd</sup> March 2016.
  39. Participated in Workshop on Revised Syllabus with Credit Based Semester and Grading System in Chemistry for F.Y.B.Sc. hosted by Department of Chemistry, Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi, Dist-Sindhudurg during 30<sup>th</sup> July 2016.
  40. Attended and presented a paper (Oral) entitled Kinetic and Mechanistic approach of the selective oxidation of Acetic acid hydrazide to the corresponding acid by Thallium(III) in acidic medium in Interdisciplinary State level Conference on Science for Sustainable Development during 19<sup>th</sup> December 2016 organized by Anandibai Pradhan Science College, Nagothane.
  41. Attended and presented a paper (Poster) in a Two days National Symposium on Recent approaches in Drug Discovery and Perspectives of Pharma Industry during 24<sup>th</sup> -25<sup>th</sup> December 2016 organized by Indira Institute of Pharmacy, Sadavali Dist-Ratnagiri.
  42. Attended and presented a paper (Poster) in a National Conference on Materials and Environmental Science during 15<sup>th</sup> February 2017 organized by Shri. Yashwantrao Patil Science College, Solankur Dist-Kolhapur.
  43. Participated in Workshop on Revised Syllabus with Credit Based Semester and Grading System in Chemistry for S.Y.B.Sc. hosted by Department of Chemistry, R.P.Gogate and R.V.Jogalekar College, Ratnagiri during 17<sup>th</sup> June 2017.
  44. Attended and presented a paper (Poster) in a National Conference on Recent Trends in Chemical Science and Its Interdisciplinary Applications during 6<sup>th</sup> January 2018 organized by Shri. Yashwantrao Patil Science College, Solankur Dist-Kolhapur.
  45. Attended and presented a paper (Oral) entitled Kinetics and Mechanism of Selective Oxidation of Benzoic and Picolinic acid hydrazides by Thallium(III) in acidic medium in a National Seminar on Emerging Trends in Basic Sciences during 30<sup>th</sup> January 2018 organized by Abasaheb Marathe Arts and New Science College, Rajapur Dist-Ratnagiri.
  46. Attended and presented a paper (Oral) entitled A novel method for Oxidation of p-Bromo benzoic acid hydrazide by Thallium(III) in acidic medium in International Conference on Recent Trends in Science and Technology during 22-23<sup>rd</sup> March 2018 organized by S.S.S.K.R. Innani Mahavidyalaya, Karanja (Lad) Dist-Washim.
  47. Participated in Workshop on Revised Syllabus with Credit Based Semester and Grading System in Chemistry for T.Y.B.Sc. hosted jointly by IQAC and Department of

Chemistry, S.P.K. Mahavidyalaya, Sawantwadi on 6<sup>th</sup> August 2018.

48. Participated in Workshop on Revised Syllabus with Credit Based Semester and Grading System in Chemistry for M.Sc.Organic Chemistry hosted jointly by Board of Studies in Chemistry, University of Mumbai and Department of Chemistry, Ratnagiri Sub-Centre, University of Mumbai on 7<sup>th</sup> August 2018.
49. Participated in One day National Seminar on Gender Sensitisation & Women's Rights organized by WDC, Dr. Ambedkar College of Commerce & Economics, Mumbai on 22<sup>nd</sup> September 2018.
50. Attended a workshop on E-content and Digital presentation development organized by Department of Geography, A.S.P. College, Devrukh during 16<sup>th</sup> – 17<sup>th</sup> October 2018.
51. Participated in the NPTEL Workshop conducted on 6<sup>th</sup> December 2018 by IIT Madras, at SIES College of Arts, Science and Commerce, Sion (West).
52. Attended and presented a paper (Poster) entitled A novel method for Oxidation of iso-Valeric acid hydrazide to the corresponding acid by Thallium(III) in 1,4- Dioxane medium- A Kinetic and Mechanistic Approach in International Conference on Environment Development and Sustainability (ICEDS 2018) during 15<sup>th</sup> December 2018 organized by Department of Botany and IQAC, A.S.P. College, Devrukh Dist-Ratnagiri.
53. Attended a one day workshop on Intellectual Property Rights and Art of Writing Research Proposals organized by Department of Physics, Research Committee and IQAC, A.S.P. College, Devrukh during 11<sup>th</sup> February 2019.
54. Participated in Regional Workshop on Research based Pedagogical Tools held in Indian Institute of Science Education and Research (IISER), Pune from August 20-22, 2019.
55. Attended and presented a paper (Oral) entitled A novel method for Oxidation of Succinic dihydrazide to the corresponding acid by Thallium(III) in 1,4- Dioxane medium- A Kinetic and Mechanistic Approach in National Conference on Multi-Disciplinary Research and Practices during 15<sup>th</sup> February 2020 organized by IQAC, G.M.Vedak College of Science, Tala-Raigad.
56. Presented a paper (Oral) entitled , Oxidation of benzoic and n- Butyric acid hydrazides by Thallium (III) in Acidic Medium- A Kinetic and Mechanistic approach in 2<sup>nd</sup> International Conference on Empirical and Theoretical Research (Online) on June 4-5,2020 organized by International Board for Education, Research and Development (IBERD).
57. Presented Research paper entitled “Comparative study of oxidation of benzoic,iso-butyric and iso-valeric acid hydrazides to their corresponding acids by Thallium (III) in1,4-dioxane medium” by Oral mode at one-day International conference held on 10<sup>th</sup> March, 2023 at Sonopant Dandekar Arts, V.S.Apte Commerce and M.H.Mehta Science College, Palghar.
58. Presented Research paper entitled “Hammett Correlations in the Chemistry of Thallium (III)- Induced Oxidation of Benzoic and m-Aminobenzoic Acid Hydrazides -in Acidic Medium” by oral mode at Virtual International Conference on Materials Chemistry for Energy & Environmental Applications 2023 (MCEEA-23) on 09<sup>th</sup> August 2013 organized by Department of Chemistry, MITS, Madanapalle.

59. Presented Research paper entitled “Hammett Correlations in the Chemistry of Oxidation of m-Fluoro benzoic Acid hydrazide by Thallium(III) in Acidic Medium” by oral mode at International Conference (Online) on Recent Advances in Material Science (RAMS-2024) on 04<sup>th</sup> April 2014 organized by Department of Chemistry and Physics A.S.P.College, Devrukh and KIT College of Engineering, Kolhapur.
60. Presented Research paper entitled “Synthesis of Zinc Oxide Nanoparticles by Microwave assisted Technique” by oral mode at International Conference (Online) on Recent Advances in Material Science (RAMS-2024) on 04<sup>th</sup> April 2014 organized by Department of Chemistry and Physics A.S.P.College, Devrukh and KIT College of Engineering, Kolhapur.
61. Presented Research paper entitled “Eco-Friendly Ruthenium Nanoparticles: Synthesis, Characterization and Evaluation of Bioactivity using Hibiscus sabdariffa L.” by oral mode at International Conference (Online) on Recent Advances in Material Science (RAMS-2024) on 04<sup>th</sup> April 2014 organized by Department of Chemistry and Physics A.S.P.College, Devrukh and KIT College of Engineering, Kolhapur.

**Date- 28.01.2025.**

A handwritten signature in black ink on a light pink background. The signature reads "AS Varale" with a horizontal line underneath.

**Dr. Amit Shrikant Varale**