

Bio-Data

Dr. M. H. Moulavi,

Associate Professor of Chemistry

PDEA's Prof. Ramkrishna More Arts, Commerce and Science College

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<https://sites.google.com/site/pdeamhm/home>

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I) Personal Information:

- | | |
|---------------------------|--|
| 1. NAME | : Dr. Mansur Hisamuddin Moulavi |
| 2. Academic Qualification | : M.Sc. NET Ph. D. |
| 3. College/Institute | : Annasaheb Waghire College, Otur Tal:Junnar, Dist: Pune, PIN: 412409. |
| 4. Date of Joining | : 17th Sep 2008. |
| 5. Designation | : Associate Professor |
| 6. Address | : 'B-101', Swamiratna Heights, At Post: Otur, Tal: Junnar, Dist: Pune, Maharashtra - 412409. |
| 7. E-mail | : mhmoulavi251985@gmail.com |
| 8. Mobile No. | : 90963718171 |
| 9. Birth Date | : 2 nd May 1985 |

II) Educational Information:

| Name of Degree | Board / University | Year of Passing | Class Obtained | % of Marks | Subject |
|----------------|--------------------|-----------------|----------------|------------|---|
| S.S.C. | Pune | 2001 | Distinction | 78.66 | General |
| H.S.C. | Pune | 2003 | First Class | 60.00 | Physics, Chemistry, Biology, Mathematics, Language |
| B.Sc. | SPPU | 2006 | Distinction | 77.86 | Physics, Chemistry, Botany, Zoology <i>Specialization -Chemistry</i> |
| M. Sc. | SPPU | 2008 | Second Class | 58.66 | Organic Chemistry |
| NET | UGC | 2008 | - | - | Chemical Science |
| Ph. D. | SPPU | Aug. 2021 | -- | -- | Chemistry |

III) Professional Experience:

| Sr. No. | Field | Duration | Responsibility |
|---------|---|----------------------|---|
| 1 | Plant tissue culture Laboratory (Anand floritech & Biotech) | 2003-2004 (One year) | a) Preparation of tissue culture media. b) Inoculation of plant material in culture media for multiplication |

| | | | |
|---|--|-------------------------------------|--|
| | | | c) Hardening of plants in polyhouse d) Fertilizer management for tissue culture plants e) Marketing of tissue culture plants |
| 2 | Coordinator of soil testing for farmers | 2013-2015 (two years) | a) Soil of farmers from different villages of Junnar taluka are tested for nutrient analysis Parameters pH, EC, OC and NPK analysis. |
| 3 | Coordinator for soil testing training for UG students | 2009-2010 & 2021-2021 (three years) | a) The training/practical's are included in syllabus of agriculture chemistry |
| 4 | Incharge for DST-FIST instrumental laboratory | 2018-2022 (Four years) | a) Providing sample analysis of Chemicals using instruments like Flame photometer (Na & K analysis, FT-IR, UV, HPLC and GC instruments And consultancy services to nearby colleges. |

III) Academic Experience:

a) Teaching Experience:

| | UG (B. Sc. Chemistry) | PG (M. Sc. Organic Chemistry) |
|------------------------------------|---|--|
| Teaching Experience (Years) | 14 | 14 |
| Subject Taught | Agriculture Chemistry, Dairy Chemistry, Organic Chemistry | Organic Reaction Mechanism, Chemistry of Natural Products, Practical Organic Chemistry |

b) Teacher recognition details

| Sr. No. | Name of the University | Reference number and Date | Tenure |
|----------------|---|---|--------------------------------|
| 1. | Savitribai Phule Pune University (UG Teacher) | Ref. No: CCO/2644 Date: 11/07/2009 | Date: 17/09/2008 to 22/07/2045 |
| 2. | Savitribai Phule Pune University (PG Teacher) | Ref. No: BUTR/Science/22/854 Date: 08/08/2014 | Date: 22/07/2014 to 22/07/2045 |
| 3. | Savitribai Phule Pune University (Ph. D. Guide) | Ref. No: BOD/Sci. & Tech./05/18 Date: 07/01/2022 | Date: 05/01/2022 to 22/07/2045 |

c) E-content for Teaching

| Sr. No. | Type | E-content | Link |
|----------------|-----------------|----------------------------|---|
| 1 | Website | Ppts, Student instructions | https://sites.google.com/site/pdeamhm/home |
| 2 | Youtube Channel | Videos | https://www.youtube.com/channel/UCLryLFik6HWuA1c2VvJ3KUg |

| | | | |
|---|------------------|-----------------------|---|
| 3 | Google Classroom | Teaching, Assignments | https://classroom.google.com/c/MzY5MzA4ODQ4MTU3?cjc=xo4exja |
|---|------------------|-----------------------|---|

IV) Research Experience : 7 Years (5 years Ph. D. + 2 years UGC minor research Project)

a) Ph. D. details:

| No | Title of Ph. D. | Duration | Guide | Research Center |
|----|---|-----------------------|--|--|
| 1 | <i>Nanocrystalline Doped MgO, ZnO and MnO₂ Catalysts for Wittig Reaction</i> | Dec 2013 to Aug. 2020 | Dr. K. G. Kanade (Research Guide) Dr. B. B. Kale (Research Coguide) | Center for materials for Electronics Technology (C-MET, Pune) Affiliated to Savitribai Phule Pune University, Pune) |

b) Research Projects:

| No | Title of Project | Agency | Duration | Amount | Status |
|----|---|-------------------------|-----------------------|-----------------|----------------|
| 1 | <i>Nanocrystalline transition metal doped MgO to Wittig Olefiantion.</i> | UGC-Delhi | 2012-2014 (Two years) | Rs. 1,70,000 /- | Completed |
| 2 | CuO doped MgO nanocomposites for synthesis of flavoring agent of cinnamate esters by green mechanochemical Wittig reaction. | BCUD-SPPU ASPIRE Scheme | Proposed | Rs. 3,00,000 | Not sanctioned |

c) Research Guidance:

| No | Students | Number | Status |
|----|----------|-------------|--------------------------|
| 1 | UG | 5 students | 2 completed 3 Ongoing |
| 2 | PG | 11 students | Completed |
| 3 | Ph. D. | 1 Student | Ongoing |

d) Collaborative Research Work:

| No | Institute under collaboration | Name of Incharge Person | Activity |
|----|--|---|---|
| 1 | Soil Testing Center, Krishi Vidnyan Kendra, Narayangaon (Junnar, Dist-Pune, Maharastra, India) | Mr. Yogesh Yadav (Soil Matter Specialist) | Soil Testing and consultancy for project under aspire for problematic soils |

V) Publications:

a) Publication of Research Papers (4 International + 5 National)

| No | Title of Paper | Journal |
|----|---|---|
| 1 | Comparatives study of surface activation of nanocrystalline MgO under thermal and microwave heating in Wittig reaction | <i>International Research Journal of Science & Engineering</i> (Volume No A3, Page no 28-34) |
| 2 | Sea Shell Derived CaCO ₃ Nanorods as Calcium Rich Fertilizer in Agriculture | <i>International Research Journal of Science & Engineering</i> (Volume No A1, Page no 189-191) |
| 3 | pH metric method for detection of cooked rice adulteration o | <i>International journal of Chemical & physical sciences</i> Vol.07 Special issue April 2018 |
| 4 | Green synthetic methodology: An Evaluative study of impact of surface basicity of MnO ₂ doped MgO nanocomposites in Wittig reaction | <i>Journal of Solid state Chemistry</i> Vol. no 269, 167-174 |
| 5 | Nanocrystalline Cu-ZnO as an Green catalysts for one pot synthesis of 4,4'-((phenyl)methylene)bis(3-methyl-1-phenyl-1H-pyrazol-5-ol)dervivatives | <i>Journal of Nanoscience and Nanotechnology</i> Vol no 19, 4623-4631 |
| 6 | ZnCl ₂ loaded TiO ₂ nanomaterial: an efficient green catalyst to one-pot solvent-free synthesis of propargylamines | <i>RSC Advances</i> Volume 9 (56) |
| 7 | Synergistic surface basicity enhancement effect for doping of transition metals in nanocrystalline MgO as catalysts towards one pot Wittig reaction | <i>Arabian Journal of Chemistry</i> Volume 14, Issue 5 , Page no. 103134 |
| 8 | Green Synthesis of ZnO nanoparticles using Sugarcane Juice for LPG sensing applications | <i>Journal of the Maharaja Sayajirao University of Baroda</i> Volume 55. Issue 2, Page No 726 |
| 9 | Synthesis and Characterization of MnO ₂ /MgO Nano sheets: An efficient Recyclable Solid Base to Wittig Reaction | <i>Journal of Emerging Technologies and Innovative Research</i> Volume No 8 Issue 7 Page No f967 |

b) Book chapters:

| No | Name of Book | Title of Chapter | Chapter | Publication |
|----|---|--|------------------------|--|
| 1 | Chemistry of Biomolecules (2021) | Proteins, Amino acids, Enzymes | Chapter 2 Chapter 3 | Nirali Publication-Pune (India) |
| 2 | New Innovations in Chemistry and Biochemistry Vol. 6 (2021) | Transition Metal Doped Nanocrystalline MgO Catalyzed Green Chemical Synthesis of E-Ethyl Cinnamate Using One Pot Wittig Reaction | Chapter 2 | B. P. International Publication UK and West Bengal |
| 3 | Progress in Chemical Science Research Vol. 2 (2022) | A Study on pH Metric Method for Detection of Cooked Rice Adulteration | Chapter 6 | B. P. International Publication UK and West Bengal |

VI) Seminar/Conferences/Workshop participation and presentations:

| Sr. No | Status | Number |
|--------|---------------|--------|
| 1 | International | 3 |
| 2 | National | 4 |
| 3 | State | 4 |
| 4 | University | 2 |

VII) Training Courses:

| Sr. No | Courses | Number |
|--------|--------------------------------------|--------|
| 1 | Orientation Courses | 2 |
| 2 | Refresher courses (Subject Specific) | 4 |
| 3 | Faculty development courses | 2 |
| 4 | Short Term courses | 2 |

VIII) Extension Activities

- 1)) Coordinator state level workshop of “ Identification of adulteration in Food
- 2)) Programme Officer of **National Service Scheme** during 2015-2018 (**Social Activity**)
- 3))Guest lecture on Natural product Chemistry : Biogenesis on 29/09/2013 to M. Sc. II organic Chemistry students in Annasaheb Waghire College, Otur
- 4)) Treasurer for Two days national conference NEESHP 2016.
- 5) Assistant Coordinator in state level conference RTCS-2018
- 6) Participated in Avishakar-2012 from teacher category. Project ranked third in Zonal level
- 7) Chemiad Coordinantor in exam in 2012-2013, 2016, 2019
- 8) Presising officer in different Election duties

9) Member of Indian Society of Soil Science.

(Dr. M. H. Moulavi)