

Dr Umesh Shelke

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Address: Kolhapur , Maharashtra , India -

416003

ORCID ID: 0000-0003-0389-1219

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AREAS OF EXPERTISE

Organic Chemistry

Area of Research : Organic Synthesis , Heterocyclic chemistry, Adsorption studies, Material science, Environmental science and Biological studies of heterocyclic compounds.

EDUCATION

Ph.D. 2024

Sant Gadge Baba Amravati University

CSIR NET JRF 2009

New Delhi

GATE 2008

Bangalore Institute of Technology

UGC CSIR NET 2008

New Delhi

MSc 2007

Sant Gadge Baba Amravati University

BSc 2005

Sant Gadge Baba Amravati University

PROFESSIONAL EXPERIENCE

Rajarshi Chhatrapati Shahu College 2022 - Present

Associate Professor

Kolhapur

Dr.Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) 2014 - 2022

Assistant Professor

Sangli

Rajarshi Chhatrapati Shahu College 2010 - 2014

Assistant Professor

Kolhapur

SSE CO-OP SS LATE R.B.GARUD KALA & WANIJYA MAHAVIDYALAYA, SHENDURNI. 2009 -

2010

Assistant Lecturer

Jalgaon

CSIR-Central Salt and Marine Chemicals Research Institute 2008 - 2009

Junior Research Fellow

Bhavnagar

HONOURS AND AWARDS

Ph.D 2024

Awarded by: Sant Gadge Baba Amravati University Amravati

Junior Research Fellow 2009

Awarded by: CSMCRI Bhavnagar Gujrat

Junior Research Fellow (CSIR-JRF) 2009

Awarded by: HRD UGC NEW DELHI

UGC Junior Research Fellow (JRF) 2008

Awarded by: HRD UGC NEW DELHI

PROFESSIONAL MEMBERSHIPS

Shivaji University Kolhapu 2025

Recognised Research Guide in Chemistry

Rajarshi Chhatarpati Shahu college kolhapur 2024

IQAC Coordinator

LOCAL INQUAIRY COMMITTEE 2023

MEMBER OF LIC COMMITTEE SHIVAJI UNIVERSITY, KOLHAPUR

AVISHKAR COMMITTEE 2023 2023

TEAM LEADER for STATE LEVEL AVISHKAR CONVENSION 2022-23 SHIVAJI UNIVERSITY KOLHAPUR

RAJARSHI CHHATRAPATI SHAHU COLLEGE KOLHAPUR CO-CORDINATOR IQAC 2023

CO-Cordinator

LIC 2022

Member of LIC Committee Shivaji University Kolhapur

NAAC MOCK PEER TEAM RAYAT SHIKSHAN SANSTHA 2022

Member Coordinator

RAYAT SHIKSHAN SANSTHA AAA COMMITTEE 2021

member Co-ordinator

INTERNAL QUALITY ASSURANCE CELL ASC COLLEGE RAMANANDNAGAR (BURLI) SANGLI (2019 to 2022) 2019

CORDINATOR

COLLEGE DEVELOPMENT COMMITTEE (2019-2022) ASC COLLEGE RAMANANDNAGAR (BURLI) *2019*

CDC MEMBER

COMMITTEE MEMBERSHIPS

Rajarshi Chhatrapati Shahu College, Kolhapur 2023

IQAC Coordinator

COLLEGE AVISHKAR COMMITTEE 2022 onward Rajarshi Chhatrapati Shhahu college Kolhapur *2022*

Chairman

EXAMINATION COMMITTEE ASC COLLEGE RAMANANDNAGAR (2015-2020) 2015

MEMBER

BCA COMMITTEE (2015-2022) 2015

Chairman

SCIENCE ASSOCIATION COMMITTEE ASC COLLEGE RAMANANDNAGAR (2015-2022) 2015

Chairman

NAAC CRITERION V ASC COLLEGE RAMANANDNAGAR (BURLI) 2015-2018 2015

Chairman

PATENTS

Full face cover mask

Inventor(s): Dr. D. M. Nagrik,

Assignee: MR. U.S. Shelke and P.S. Game GS COLLELLEGE KHAMGAO | Published: 0000-00-00

SILVER-BIDMUTH NANOPARTICLE-EMMBEDDED ANDROGRAPHOLIDE SYSTEM WITH INTEGRATED COMPUTINGTECHNOLOGY FOR PRECISION CANCER THERAPY AND ENHANCED DRUG DELIVERY

Inventor(s): Umesh Suresh Shelke, Pravina Baburao Piste, Shakil Dilawar Shaikh ,Anisa Shakil Shaikh and Kishor Sheshrao Shelki

Assignee: Umesh Suresh Shelke, Pravina Baburao Piste, Shakil Dilawar Shaikh ,Anisa Shakil Shaikh and Kishor Sheshrao Shelki | Published: 2024-12-13

Method and system for mitigating air pollution and its impact on climate change

Inventor(s): Dr Ram Ashish Shrivastava

Assignee: Dr Preeti Gajghate 3)Dr Umesh Suresh Shelke 4)Dr Mukund Dhanaji Kadam 5)Amit Kumar Pandey 6)Shubham Kuriyal 7)Dr Shakil Dilawar Shaikh 8)Prabakaran C 9)S Muthurajan 10)Suresh Kumar M 11)Dr B. Kavitha 12)Dr Saurabh Sanjay Joshi | Published: 0000-00-00

Smart waste MI-Drien Classification for Efficient Oragnioc and non oraganic Managements

Inventor(s): Dr. P. B. Piste

Assignee: Shelke U.S. Shaikh , S.D. , Shedage S. D. | Published: 0000-00-00

Enhanced efficiency of solar panels using biodegradable nanocoating-based self-cleaning system"

Inventor(s): Dr. Umesh Suresh Shelke

Assignee: Mr. Amol Digambar Pinjarkar, Dr. Shakil Dilawar Shaikh, Dr. Anisa Shakil Shaikh, Dr. Surekha Parshram

Rode | Published: 0000-00-00

Device for Biochar-Based Wastewater Treatment from Sludge

Inventor(s): Dr. Shelke U.S.

Assignee: 2. Dr. Kadam Mukund Dhanaji 3. Dr. Vikash Ramchandra Bhosale 4. Dr. Valmik Shamrao Kapse 5. Dr. Kailas Radhakishan Borude 6. Dr. Pankaj Anantrao Chalikwar | Published: 0000-00-00

PUBLICATIONS

1. Comparative analysis of Heavy Metals Content in soil from karveer Tahsil using Atomicadsorption spectroscopy andits Environmental impact.

Ratandeep P. Kamble, Pratik R. Sardesai, Pravina B. piste and Umesh S, Shelke. International Journal Of Research in Academic World, Vol. Volume No:1504 Issue No:5 ISSN/ISBN No:3049-3498 (2025), pp.

2. Genesis of Ideas: An Undergraduate Research Anthology on Innovation

*Umesh Shelke, Pravina Piste and shrikrushna Ubarhande,*Genesis of Ideas: An Undergraduate Research Anthology on Innovation , Vol. (2025) , pp.

3. Metal Mediated Polyaniline (PANI) Composite catalyst

Umesh Shelke

Metal Mediated Polyaniline (PANI) Composite catalyst , Vol. (2025) , pp.

4. INTRODUCTION OF SINA RIVER BASIN IN MAHARASHTRA (MS) INDIA

Mukund Kadam, Umesh Shelke and Mahadev Hande
INTRODUCTION OF SINA RIVER BASIN IN MAHARASHTRA (MS) INDIA , Vol. (2025) , pp.

5. Essential Chemical Processes: From Laboratory to Industry

Umesh Shelke, Shakil Shikh and Vikash Bhosale Essential Chemical Processes: From Laboratory to Industry , Vol. (2025) , pp.

6. Bridging Theory and Experiment: Innovative Undergraduate Projects

Umesh Shelke and Vikas Bhosale

Bridging Theory and Experiment: Innovative Undergraduate Projects, Vol. (2025), pp.

7. Research Renaissance: Exploring the Frontiers of Chemistry

Umesh Shelke

Research Renaissance: Exploring the Frontiers of Chemistry, Vol. (2025), pp.

8. INNOVATIONS IN POLYMER-SUPPORTED CATALYSIS Polyaniline Doped Cobalt-Manganese-TiO₂ Systems for Green Organic Synthesis

Dr. Umesh Shelke

INNOVATIONS IN POLYMER-SUPPORTED CATALYSIS Polyaniline Doped Cobalt–Manganese–TiO₂ Systems for Green Organic Synthesis , Vol. (2025) , pp.

9. Water Analysis of Natural Resources

Kishor Shelkei, Umesh Shelke and Shakil Shaikh Water Analysis of Natural Resources, Vol. (2024), pp.

10. SYNTHESIS OF (1,5-DIPHENYL)-2,4-DITHIOBIURETE

S.M. LUNGE, N.B. JADHAV and U.S. Shelke
Adarsh journal of research and evolution, Vol. ISSN/ISBN No:2277-3983 (2024), pp.

11. MINERAL ANALYSIS OF MEDICINALLY IMPORTANT FERN: ADIANTUM PHILIPPENSE L.

Shakil D. Shaikh, Anish S. Shaikh, Bharat Jadhav and Umesh Shelke Journal of Technology, Vol. Volume No:12 Issue No:11 (2024), pp.

12. Natural Catalyzed Synthesis of Chalcone by Using Grindstone Chemistry under Solvent Free Conditions

Pravina Piste, Samarth Patil and Umesh Shelke
African Journal of Biological Sciences, Vol. Volume No:6 Issue No:6 (2024), pp.

13. Evaluation of Antimicrobial Activity and Efficient Synthesis of 3, 4- Dihydropyrimidin-2-(1H)-One by Using Cobalt Chloride Doped Polyaniline Composite (PANI-Co) As Catalyst

UmeshS. Shelke , Shakil.D. sheikh and Pravina b. Piste
African Journal of Biological Sciences , Vol. Volume No:6 Issue No:6 (2024) , pp. ISSN/ISBN No:2663-2187

14. Exploring Nitrogen and Oxygen Heterocycles

Pravina Piste, Umesh Shelke and Kishor Gaikwad Exploring Nitrogen and Oxygen Heterocycles , Vol. (2024) , pp.

15. Synthesis of CoO, NiO Nanoparticles, CoO@pani and NiO@pani Nanocomposites CoNiO2, CoNiO: Doped PANI and Investigation of its Photocatalyst Activity

Ramdas S. Suralkar', Deepak M. Nagrik', Umesh S. Shelke' Ravi S. Balaskar*
RESEARCH JOURNEY' International E- Research Journal , Vol. special issue 333 (2023) , pp. 153-168

16. Synthesis of N-Mannich bases from 3, 4-dihydropyrimidin-2(1H)-ones by using nanostructured Cobalt Chloride Doped Polyaniline Composite as Catalyst (PANI-Co),

Umesh S. Shelke and Deepak M. Nagrik

Journal of Physics: Conference S1644 June-2020. , Vol. 1644 (2020) , pp. 1742-6596

17. preparing students as a beter citizen(A boon of Society) througth values in Higher Education

V.B. patil and U.S. Shelke

RESEARCH DIRECTION, Vol. Volume No:7 Issue No:1 DOI No:0 ISSN/ISBN No:2321-5488 (2019), pp.

18. synthesis and characterization of 2,3-Bis(4'-Hydroxyphenyl) (1,8)(1,4) Naphthadiazepine BHPD

V.B. Patil and U.S. Shelke

AJANTA, Vol. Volume No:9 Issue No:2 DOI No:0 ISSN/ISBN No:2277-5730 (2019), pp.

19. Synthesis and characterization of 2,3, Bis(2'-Hydroxynaphthalen-6'Y)(1,8)(1-4) Naphthazepine BHND

v.B. Patil And U.S. Shelke

AJANTA, Vol. Volume No:9 Issue No:2 DOI No:0 ISSN/ISBN No:2277-5730 (2019), pp.

20. Synthesis and Characterization of 2,3, Bis (4'-Hydroxyphenyl) 4,5,6,7,8,9Hexahydroquinoxaline HPQ

V.B. Patil and U.S. Shelke

AJANTA, Vol. Volume No:8 Issue No:1 DOI No:0 ISSN/ISBN No:2277-5730 (2019), pp.

21. Synthesis of 3, 4-Dihydropyrimidin-2(1H)-ones by using Cobalt Chloride Doped Polyaniline as Catalyst

Umesh S. Shelke and Deepak M. Nagrik Journal of interdisciplinary cycle research , Vol. 11 (2019) , pp. 189-200

22. Synthetic and Biological Evaluation of 3, 4- Dihydropyrimidin-2-(1H)-ones by using Cobalt Chloride Doped Polyaniline Composite (PANI-Co) as Nano Catalyst

Shivsing R. Ingle, Umesh S. Shelke and Deepak M. Nagrik Journal of interdisciplinary cycle research , Vol. 11 (2018) , pp. 162-172

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