



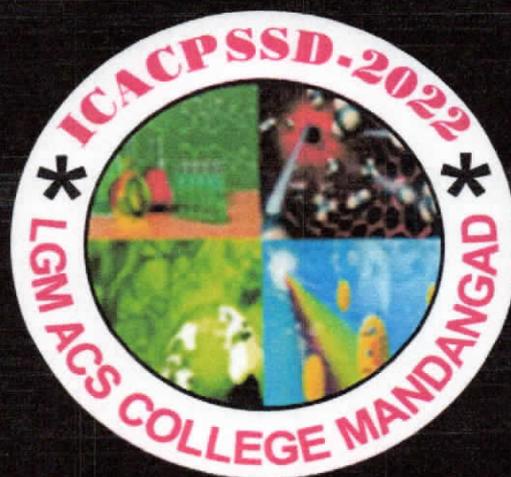
INTERNATIONAL E- CONFERENCE ON
**ADVANCES IN CHEMICAL & PHYSICAL SCIENCES FOR
SUSTAINABLE DEVELOPMENT**
(ICACPSSD-2022)



28th -29th April 2022

Organized by

Department of Chemistry & Physics



Conference Proceeding

Savitribai Phule Shikshan Prasarak Mandal's

**LOKNETE GOPINATHJI MUNDE ARTS, COMMERCE & SCIENCE
COLLEGE MANDANGAD, DIST-RATNAGIRI 415203 (M.S.)**

(Affiliated to University of Mumbai) NAAC Re - Accredited with Grade 'B' ISO-9001:2015 Certified

Website: lgmacscollegemandangad.com, - Email - maccmandangad@rediffmail.com

PRINCIPAL

Loknete Gopinathji Munde

Proceeding ISBN-978-93-91265-56-4

Published at:

**Savitribai Phule Shikshan Prasarak Mandal's
Loknete Gopinathji Munde Arts, Commerce & Science
College Mandangad, Dist- Ratnagiri -415203 (M.S.)**

Publication:

Incidental

Nationality:

Indian

Editor:

- | | |
|----------------------|-----------------------|
| 1. Dr. R. N. Jadhav | 5. Dr. S. A. Dhanmane |
| 2. Dr. R. J. Deokate | 6. Mr. S. C. Bulakhe |
| 3. Dr. M. S. Kadam | 7. Mr. S. A. Nirwan |
| 4. Dr. S. A. Khishte | 8. Mr. S. A. Kazi |

ISBN-

978-93-91265-56-4

Date of Publication: 29 April 2022

DISCLAIMER

The responsibility of the originality, style and content of the Proceeding of " Advances in Chemical and Physical Sciences for Sustainable Development" (ICACPSSD-2022) dated on 28-29 April, 2022 organized by Chemistry and Physics Departments of Loknete Gopinathji Munde Arts, Commerce and Science College, Mandangad, Ratnagiri (Maharashtra) 415203 India, remains with authors of the Paper, abstract. The Convener, Co-Convener, Organizing Committee need no agree with the views expressed in the articles. All the Papers and abstracts included in the Proceeding are received through the email from the authors and incorporated as such.

Department Of Chemistry & Physics, LGM ACS College, Mandangad-Ratnagiri (MS)-415203

2 | Page

PRINCIPAL
Loknete Gopinathji Munde
Arts, Commerce & Science College
Mandangad, Dist. Ratnagiri-415203

Sr.No	Title of the paper	Page No.
Paper No.01	Histochemical Investigation of Medicinally Important Plant of <i>Woodfordia fruticosa</i> (L.) Kurz. in Mandangad Tahsil, Ratnagiri Chavan Vinodkumar Dhananjay	17
Paper No.02	Studies of the Physico-Chemical Parameters in the Water Samples from Different Water Reservoirs from Village Mangle, Tal Shirala, Dist Sangli (M.S.) Vijay Jagtap, Santosh Marathe, Vikram Masal, Kailas Gandhi	20
Paper No.03	Synthesis of Heterocyclic Compounds Containing 1, 2, 4-Triazole and biological activity Amol Rangrao Suryawanshi	22
Paper No.04	Effect of Fly Ash on Cement hydration by using an isothermal calorimeter Dr. R. A. Tayade ^a , Sushil. D. Patil ^a	25
Paper No.05	Synthesis of mono & poly-substituted derivatives of Indole: A Review Sharif A. Kazi ¹ Sandip A. Nirwan [*]	31
Paper No.06	Synthesis and Characterization of Nickel Sulfide nanoparticles Julekha A. Shaikh [*]	36
Paper No.07	Water Pollution in the India- A Review Shrikant kekane ¹ , Ganesh Bhagure ²	40
Paper No.08	Manganese doped iron tartrates as efficient catalyst for the synthesis of 3,3,6,6-tetramethyl-9-aryl-1,8-dioxooctahydro xanthene derivatives Mahesh Walle, Gawali Sunil, Kambale Snehal	44
Paper No.09	Biological Activity of Metronidazole Coordination Complexes with Transition Series Metals Rh (III) and Ru (III) Kadam Mukesh Shankarrao	47
Paper No.10	Transition metal complexes having N / S and / O donor Schiff base ligands as a potential bioactive molecule: Review Dnyandev G. Bhosale ¹ , Arun S. Chopade ¹ , Dattatray G. Raut ² , Anjana S. Lawand ^{2*}	52
Paper No.11	Role of transition metal based oxides and their nanocomposites for dye degradation: Review Arun S. Chopade ¹ , Dnyandev G. Bhosale ¹ , Mukund G. Mali ^{2*}	55
Paper No.12	Physical Properties of Matter: A short view Dr Hari Gangadhar Kale	57
Paper No.13	Synthesis of Chromenes by Multicomponent Reactions (MCRs): A Review Sandip A. Nirwan ^{1,2} , Sharif A. Kazi ¹ & Sushilkumar A. Dhanmane ^{2*}	59
Paper No.14	Health Effects And Treatment Of Arsenic Poisoning In Ground Water: A Review Suresh D. Dhage, Mr. Sandip Nirwan	61
Paper No.15	Experimental Study on Effect of Solar Radiation and Dust on the Power Output of Solar PV Panels Koushal Shringi and Namrata Sengar	64
Paper No.16	Ortho Phenyl diamine, An Active compound: Review K. B. Sakhare ¹ , K. N. Sarwad ² , S. V. Thakur ³ M. A. Sakhare ²	68
Paper No.17	Transition metal phosphides as efficient catalysts for water splitting application S. C. Bulakhe	71
Abstract		
01	To Synthesis W (II) and Re (II) Coordination Complexes with Ethambutol and Their Antimicrobial Activity Chougale Amal Dost Mohammed, Chougale Ruwaida Mohammed Jalil, Dr. Kadam M.S [*]	75
02	Antimicrobial Activity of Fe (II) and Ni (II) With Acetylacetonato Bate Madiha Mazhar, Khalf Simran Abdul Samad, Nikhil Chavan & Dr. Kadam M.S [*]	75

03	Medicinal Application of Adhatoda Vasica(L) V.S.Chavan*,D.S. Warange**	75
04	Synthesis of Paracetamol by Using Conventional Method Mrs. Azmina Abdul Aziz Hawa, Mrs. Fioni Daulat Ghadshi, Mr. Sandip A. Nirwan*	76
05	Solar Energy for Sustainable Development in India Dr. Roshan Lal	76
06	Some New Metal Ion Cheletes Acts As Catalyst in Alcohol Fermentations Bhagat S. M.	76
07	Thia- Michael addition to conjugated double bond a versatile approach in organic synthesis Ranjit A. Gayake, ¹ Dr. Vasant B.Jagrut ² , Dr. Sachin A. Khiste	77
08	Isolation and Characterization of bioactive compounds from <i>Momordica dioica</i> Roxb. by physicochemical methods. Mrs. Anuradha Dhairyashil Pawar, Mrs. Sonali Vaibhav Dhamal	77
09	Activated Carbon/MOF composite: AC/Cu-BTC, Synthesis and Application in Removal of Methylene Blue. Kemdarne S. G*, Mane T. K.	78
10	Influence of Magnetic Properties of Aluminium doped Nickel Cobalt Nanoferrite By Sol-Gel Auto-combustion Method Vishakha Shinde ¹ , Arati Chandragupta Mehere ¹ , Pallavi Kadam ² , Sopan M. Rathod*	78
11	Synthesis and Characterization of Cobalt Zinc Ferrites by Coprecipitation Method Digambar D. Kulkarni ¹ , Joshi Vishwesh ² , Parikshit C. Pakhare ³ , Atharva R. Mehta ⁴ , Rutik B. Adurkar ⁵	79
12	Effect of covid-19 on Environment & Environmental Sustainability Raghuvir Suresh Rathod, Sushant Ravindra Yesare, Mr. S. A. Kazi*	79
13	Synthesis, Characterization, and Photoluminescence Study of Copolymer Derived From 2-Amino 6-nitrobenzothiazol, and Oxamide with Formaldehyde Punam G. Gupta ^a , R. H. Gupta ^b , W. B. Gurnule ^a	80
14	On The Economical Ways To Produce The Carbon Nanotubes In The Lab Dr. Vijay S. Raykar	80
15	Green synthesis of (E,4R,6R)-N-benzylidene-4-(3-methylthiophen-2-yl)-6-(thiophen-2-yl)pyrimidin-2-amine Derivatives Bhau A. Bulakhe	80
16	Preparation of ZnO nanoparticles using Zn (2-Mercaptobenzothiazole) ₂ as single source precursor and its application for treatment of organic toxic pollutant Ajay V. Gole, Hetal J. Mehta, Rahul SYadav, Akshit H. Nor and Saumiya Varadarajan	81
17	Synthesis and characterization study of greener, rock like Cu ₂ ZnSnS ₄ thin films by low cost chemical bath deposition method Sandesh B. Jirage ^a and Vijaykumar M. Bhuse ^{**}	81
18	Synthesis of Some Benzothiazepine Derivatives by using Mango Juice as a Green Catalyst S. G. Jagadhani	82
19	Synthesis, Characterization And Antimicrobial Screening Studies Of Some Metal Complexes Of Novel Schiff Base Of 3-Formyl-6-Chlorochromone And 3-Aminoquinoline Sushil K. Ghumbre	82
20	Synthesis of 3,5-disubstituted salicylaldehydes by one-pot migration-formylation of benzyl aryl ethers under Duff reaction condition Pradeep Lasonkar	82
21	Synthesis of Schiff's bases of different substituted tetrazole [1,5- α] Quinoline as potential antimicrobial agents Mahesh B. Auti ¹ , Mayur J. Gawande ¹ , Nilesh K. Halikar ¹ , & Sambhaji P. Vartale ^{2*}	83
22	Synthesis of Guar Gum Based Potent Hydrogel for Dye adsorption Puneet Kumar, Sandeep Chauhan	83
23	Synthesis of Fe ₃ O ₄ nano-crystallites using potassium trioxalato ferrate[III] as a single source precursor and application in treatment of toxic industrial effluent Ajay V. Gole, Hetal J. Mehta, Janvi N. Mehta, Shikha S. Thakkar and Vidhi H. Vyas.	84



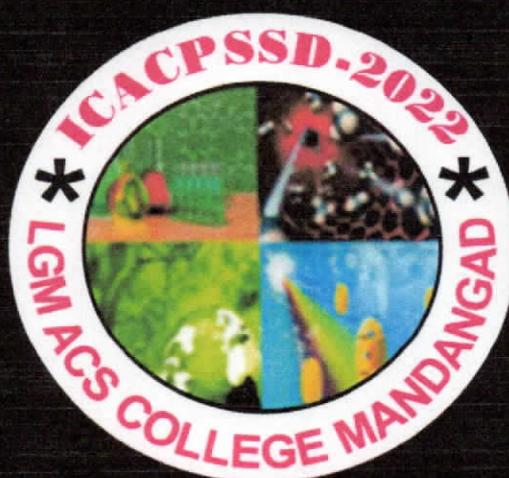
INTERNATIONAL E- CONFERENCE ON
**ADVANCES IN CHEMICAL & PHYSICAL SCIENCES FOR
SUSTAINABLE DEVELOPMENT**
(ICACPSSD-2022)



28th -29th April 2022

Organized by

Department of Chemistry & Physics



Conference Proceeding

Savitribai Phule Shikshan Prasarak Mandal's

**LOKNETE GOPINATHJI MUNDE ARTS, COMMERCE & SCIENCE
COLLEGE MANDANGAD, DIST-RATNAGIRI 415203 (M.S.)**

(Affiliated to University of Mumbai) NAAC Re - Accredited with Grade 'B+' ISO 9001:2015 Certified

Website: lgmacscollegemandangad.com, - Email - maccmandangad@rediffmail.com

PRINCIPAL
Loknete Gopinathji Munde

Proceeding ISBN-978-93-91265-56-4

Published at:

**Savitribai Phule Shikshan Prasarak Mandal's
Loknete Gopinathji Munde Arts, Commerce & Science
College Mandangad, Dist- Ratnagiri -415203 (M.S.)**

Publication: *Incidental*

Nationality: *Indian*

Editor:

- | | |
|----------------------|-----------------------|
| 1. Dr. R. N. Jadhav | 5. Dr. S. A. Dhanmane |
| 2. Dr. R. J. Deokate | 6. Mr. S. C. Bulakhe |
| 3. Dr. M. S. Kadam | 7. Mr. S. A. Nirwan |
| 4. Dr. S. A. Khishte | 8. Mr. S. A. Kazi |

ISBN-

978-93-91265-56-4

Date of Publication: 29 April 2022

DISCLAIMER

The responsibility of the originality, style and content of the Proceeding of " Advances in Chemical and Physical Sciences for Sustainable Development" (ICACPSSD-2022) dated on 28-29 April, 2022 organized by Chemistry and Physics Departments of Loknete Gopinathji Munde Arts, Commerce and Science College, Mandangad, Ratnagiri (Maharashtra) 415203 India, remains with authors of the Paper, abstract. The Convener, Co-Convener, Organizing Committee need no agree with the views expressed in the articles. All the Papers and abstracts included in the Proceeding are received through the email from the authors and incorporated as such.

Sr.No	Title of the paper	Page No.
Paper No.01	Histochemical Investigation of Medicinally Important Plant of <i>Woodfordia fruticosa</i> (L.) Kurz. in Mandangad Tahsil, Ratnagiri Chavan Vinodkumar Dhananjay	17
Paper No.02	Studies of the Physico-Chemical Parameters in the Water Samples from Different Water Reservoirs from Village Mangle, Tal Shirala, Dist Sangli (M.S.) Vijay Jagtap, Santosh Marathe, Vikram Masal, Kailas Gandhi	20
Paper No.03	Synthesis of Heterocyclic Compounds Containing 1, 2, 4-Triazole and biological activity Amol Rangrao Suryawanshi	22
Paper No.04	Effect of Fly Ash on Cement hydration by using an isothermal calorimeter Dr. R. A. Tayade ^a , Sushil. D. Patil ^a	25
Paper No.05	Synthesis of mono & poly-substituted derivatives of Indole: A Review Sharif A. Kazi ¹ Sandip A. Nirwan [*]	31
Paper No.06	Synthesis and Characterization of Nickel Sulfide nanoparticles Julekha A. Shaikh [*]	36
Paper No.07	Water Pollution in the India- A Review Shrikant kekane ¹ , Ganesh Bhagure ²	40
Paper No.08	Manganese doped iron tartrates as efficient catalyst for the synthesis of 3,3,6,6-tetramethyl-9-aryl-1,8-dioxooctahydro xanthene derivatives Mahesh Walle, Gawali Sunil, Kambale Snehal	44
Paper No.09	Biological Activity of Metronidazole Coordination Complexes with Transition Series Metals Rh (III) and Ru (III) Kadam Mukesh Shankarrao	47
Paper No.10	Transition metal complexes having N / S and / O donor Schiff base ligands as a potential bioactive molecule: Review Dnyandev G. Bhosale ¹ , Arun S. Chopade ¹ , Dattatray G. Raut ² , Anjana S. Lawand ^{2*}	52
Paper No.11	Role of transition metal based oxides and their nanocomposites for dye degradation: Review Arun S. Chopade ¹ , Dnyandev G. Bhosale ¹ , Mukund G. Mali ^{2*}	55
Paper No.12	Physical Properties of Matter: A short view Dr Hari Gangadhar Kale	57
Paper No.13	Synthesis of Chromenes by Multicomponent Reactions (MCRs): A Review Sandip A. Nirwan ^{1,2} , Sharif A. Kazi ¹ & Sushilkumar A. Dhanmane ^{2*}	59
Paper No.14	Health Effects And Treatment Of Arsenic Poisoning In Ground Water: A Review Suresh D. Dhage, Mr. Sandip Nirwan	61
Paper No.15	Experimental Study on Effect of Solar Radiation and Dust on the Power Output of Solar PV Panels Koushal Shringi and Namrata Sengar	64
Paper No.16	Ortho Phenyl diamine, An Active compound: Review K. B. Sakhare ¹ , K. N. Sarwad ² , S. V. Thakur ³ M. A. Sakhare ²	68
Paper No.17	Transition metal phosphides as efficient catalysts for water splitting application S. C. Bulakhe	71
Abstract		
01	To Synthesis W (II) and Re (II) Coordination Complexes with Ethambutol and Their Antimicrobial Activity Chougale Amal Dost Mohammed, Chougale Ruwaida Mohammed Jalil, Dr. Kadam M.S.*	75
02	Antimicrobial Activity of Fe (II) and Ni (II) With Acetylacetonato Bate Madiha Mazhar, Khalfe Simran Abdul Samad, Nikhil Chavan & Dr. Kadam M.S.*	75

03	Medicinal Application of Adhatoda Vasica(L) V.S.Chavan*.D.S. Warange**	75
04	Synthesis of Paracetamol by Using Conventional Method Mrs. Azmina Abdul Aziz Hawa, Mrs. Fioni Daulat Ghadshi, Mr. Sandip A. Nirwan*	76
05	Solar Energy for Sustainable Development in India Dr. Roshan Lal	76
06	Some New Metal Ion Cheletes Acts As Catalyst in Alcohol Fermentations Bhagat S. M.	76
07	Thia- Michael addition to conjugated double bond a versatile approach in organic synthesis Ranjit A. Gayake, ¹ Dr. Vasant B.Jagrut ² , Dr. Sachin A. Khiste	77
08	Isolation and Characterization of bioactive compounds from <i>Momordica dioica</i> Roxb. by physicochemical methods. Mrs. Anuradha Dhairyashil Pawar. Mrs. Sonali Vaibhav Dhamal	77
09	Activated Carbon/MOF composite: AC/Cu-BTC, Synthesis and Application in Removal of Methylene Blue. Kemdarne S. G*, Mane T. K.	78
10	Influence of Magnetic Properties of Aluminium doped Nickel Cobalt Nanoferrite By Sol-Gel Auto-combustion Method Vishakha Shinde ¹ , Arati Chandragupta Mehere ¹ , Pallavi Kadam ² , Sopan M. Rathod*	78
11	Synthesis and Characterization of Cobalt Zinc Ferrites by Coprecipitation Method Digambar D. Kulkarni ¹ , Joshi Vishwesh ² , Parikshit.C.Pakhare ³ , Atharva.R.Mehta ⁴ , Rutik.B.Adurkar ⁵	79
12	Effect of covid-19 on Environment & Environmental Sustainability Raghuvir Suresh Rathod, Sushant Ravindra Yesare, Mr. S. A. Kazi*	79
13	Synthesis, Characterization, and Photoluminescence Study of Copolymer Derived From 2-Amino 6-nitrobenzothiazol, and Oxamide with Formaldehyde Punam G. Gupta ^a , R. H. Gupta ^b , W. B. Gurnule ^a	80
14	On The Economical Ways To Produce The Carbon Nanotubes In The Lab Dr. Vijay S. Raykar	80
15	Green synthesis of (E,4R,6R)-N-benzylidene-4-(3-methylthiophen-2-yl)-6-(thiophen-2-yl)pyrimidin-2-amine Derivatives Bhau A. Bulakhe	80
16	Preparation of ZnO nanoparticles using Zn (2-Mercaptobenzothiazole) ₂ as single source precursor and its application for treatment of organic toxic pollutant Ajay V. Gole, Hetal J. Mehta, Rahul SYadav, Akshit H. Nor and Saumiya Varadarajan	81
17	Synthesis and characterization study of greener, rock like Cu ₂ ZnSnS ₄ thin films by low cost chemical bath deposition method Sandesh B. Jirage ^a and Vijaykumar M. Bhuse ^{**}	81
18	Synthesis of Some Benzothiazepine Derivatives by using Mango Juice as a Green Catalyst S. G. Jagadhani	82
19	Synthesis, Characterization And Antimicrobial Screening Studies Of Some Metal Complexes Of Novel Schiff Base Of 3-Formyl-6-Chlorochromone And 3-Aminoquinoline Sushil K. Ghumbre	82
20	Synthesis of 3,5-disubstituted salicylaldehydes by one-pot migration-formylation of benzyl aryl ethers under Duff reaction condition Pradeep Lasonkar	82
21	Synthesis of Schiff's bases of different substituted tetrazole [1,5-a] Quinoline as potential antimicrobial agents Mahesh B. Auti ¹ , Mayur J. Gawande ¹ , Nilesh K. Halikar ¹ , & Sambhaji P. Vartale ^{2*}	83
22	Synthesis of Guar Gum Based Potent Hydrogel for Dye adsorption Puneet Kumar, Sandeep Chauhan	83
23	Synthesis of Fe ₃ O ₄ nano-crystallites using potassium trioxalato ferrate[III] as a single source precursor and application in treatment of toxic industrial effluent Ajay V. Gole, Hetal J. Mehta, Janvi N.Mehta, Shikha S.Thakkar and Vidhi H. Vyas.	84



INTERNATIONAL E- CONFERENCE ON
**ADVANCES IN CHEMICAL & PHYSICAL SCIENCES FOR
SUSTAINABLE DEVELOPMENT**

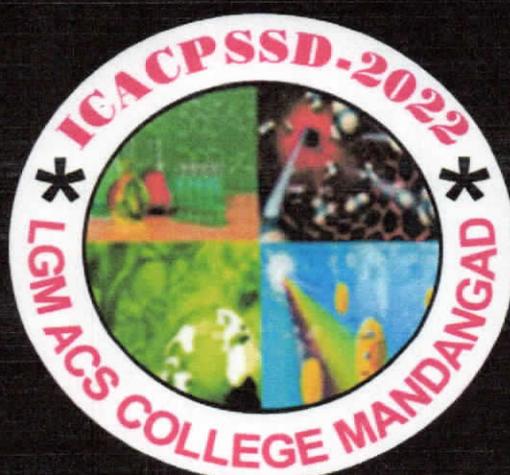
(ICACPSSD-2022)

28th -29th April 2022



Organized by

Department of Chemistry & Physics



Conference Proceeding

Savitribai Phule Shikshan Prasarak Mandal's

**LOKNETE GOPINATHJI MUNDE ARTS, COMMERCE & SCIENCE
COLLEGE MANDANGAD, DIST-RATNAGIRI 415203 (M.S.)**

(Affiliated to University of Mumbai) NAAC Re - Accredited with Grade 'B' ISO 9001:2015 Certified

Website: lgmacscollegemandangad.com, - Email - maccmandangad@rediffmail.com

Principal
PRINCIPAL
Loknete Gopinathji Munde
Arts, Commerce & Science College
Mandangad, Ratnagiri, Maharashtra

Proceeding ISBN-978-93-91265-56-4

Published at:

Savitribai Phule Shikshan Prasarak Mandal's

**Loknete Gopinathji Munde Arts, Commerce & Science
College Mandangad, Dist- Ratnagiri -415203 (M.S.)**

Publication:

Incidental

Nationality:

Indian

Editor:

- | | |
|----------------------|-----------------------|
| 1. Dr. R. N. Jadhav | 5. Dr. S. A. Dhanmane |
| 2. Dr. R. J. Deokate | 6. Mr. S. C. Bulakhe |
| 3. Dr. M. S. Kadam | 7. Mr. S. A. Nirwan |
| 4. Dr. S. A. Khishte | 8. Mr. S. A. Kazi |

ISBN-

978-93-91265-56-4

Date of Publication: 29 April 2022

DISCLAIMER

The responsibility of the originality, style and content of the Proceeding of " Advances in Chemical and Physical Sciences for Sustainable Development" (ICACPSSD-2022) dated on 28-29 April, 2022 organized by Chemistry and Physics Departments of Loknete Gopinathji Munde Arts, Commerce and Science College, Mandangad, Ratnagiri (Maharashtra) 415203 India, remains with authors of the Paper, abstract. The Convener, Co-Convener, Organizing Committee need no agree with the views expressed in the articles. All the Papers and abstracts included in the Proceeding are received through the email from the authors and incorporated as such.

Sr.No	Title of the paper	Page No.
Paper No.01	Histochemical Investigation of Medicinally Important Plant of <i>Woodfordia fruticosa</i> (L.) Kurz. in Mandangad Tahsil, Ratnagiri Chavan Vinodkumar Dhananjay	17
Paper No.02	Studies of the Physico-Chemical Parameters in the Water Samples from Different Water Reservoirs from Village Mangle, Tal Shirala, Dist Sangli (M.S.) Vijay Jagtap, Santosh Marathe, Vikram Masal, Kailas Gandhi	20
Paper No.03	Synthesis of Heterocyclic Compounds Containing 1, 2, 4-Triazole and biological activity Amol Rangrao Suryawanshi	22
Paper No.04	Effect of Fly Ash on Cement hydration by using an isothermal calorimeter Dr. R. A. Tayade ^a , Sushil. D. Patil ^a	25
Paper No.05	Synthesis of mono & poly-substituted derivatives of Indole: A Review Sharif A. Kazi ¹ Sandip A. Nirwan [*]	31
Paper No.06	Synthesis and Characterization of Nickel Sulfide nanoparticles Julekha A. Shaikh [*]	36
Paper No.07	Water Pollution in the India- A Review Shrikant kekane ¹ , Ganesh Bhagure ²	40
Paper No.08	Manganese doped iron tartrates as efficient catalyst for the synthesis of 3,3,6,6-tetramethyl-9-aryl-1,8-dioxooctahydro xanthene derivatives Mahesh Walle, Gawali Sunil, Kambale Snehal	44
Paper No.09	Biological Activity of Metronidazole Coordination Complexes with Transition Series Metals Rh (III) and Ru (III) Kadam Mukesh Shankarrao	47
Paper No.10	Transition metal complexes having N / S and / O donor Schiff base ligands as a potential bioactive molecule: Review Dnyandeve G. Bhosale ¹ , Arun S. Chopade ¹ , Dattatray G. Raut ² , Anjana S. Lawand ^{2*}	52
Paper No.11	Role of transition metal based oxides and their nanocomposites for dye degradation: Review Arun S. Chopade ¹ , Dnyandeve G. Bhosale ¹ , Mukund G. Mali ^{2*}	55
Paper No.12	Physical Properties of Matter: A short view Dr Hari Gangadhar Kale	57
Paper No.13	Synthesis of Chromenes by Multicomponent Reactions (MCRs): A Review Sandip A. Nirwan ^{1, 2} , Sharif A. Kazi ¹ & Sushilkumar A. Dhanmane ^{2*}	59
Paper No.14	Health Effects And Treatment Of Arsenic Poisoning In Ground Water: A Review Suresh D. Dhage, Mr. Sandip Nirwan	61
Paper No.15	Experimental Study on Effect of Solar Radiation and Dust on the Power Output of Solar PV Panels Koushal Shringi and Namrata Sengar	64
Paper No.16	Ortho Phenyldiamine, An Active compound: Review K. B. Sakhare ¹ , K. N. Sarwad ² , S. V. Thakur ³ M. A. Sakhare ²	68
Paper No.17	Transition metal phosphides as efficient catalysts for water splitting application S. C. Bulakhe	71
Abstract		
01	To Synthesis W (II) and Re (II) Coordination Complexes with Ethambutol and Their Antimicrobial Activity Chougale Amal Dost Mohammed, Chougale Ruwaida Mohammed Jalil, Dr. Kadam M.S.*	75
02	Antimicrobial Activity of Fe (II) and Ni (II) With Acetylacetonato Bate Madiha Mazhar, Khalfe Simran Abdul Samad, Nikhil Chavan & Dr. Kadam M.S.*	75

03	Medicinal Application of Adhatoda Vasica(L) V.S.Chavan*.D.S. Warange**	75
04	Synthesis of Paracetamol by Using Conventional Method Mrs. Azmina Abdul Aziz Hawa, Mrs. Fioni Daulat Ghadshi, Mr. Sandip A. Nirwan*	76
05	Solar Energy for Sustainable Development in India Dr. Roshan Lal	76
06	Some New Metal Ion Complexes Acts As Catalyst in Alcohol Fermentations Bhagat S. M.	76
07	Thia- Michael addition to conjugated double bond a versatile approach in organic synthesis Ranjit A. Gayake, ¹ Dr. Vasant B. Jagrut ² , Dr. Sachin A. Khiste	77
08	Isolation and Characterization of bioactive compounds from <i>Momordica charantia</i> by physicochemical methods. Mrs. Anuradha Dhairyashil Pawar, Mrs. Sonali Vaibhav Dhamal	77
09	Activated Carbon/MOF composite: AC/Cu-BTC, Synthesis and Application in Removal of Methylene Blue. Kemdarne S. G*, Mane T. K.	78
10	Influence of Magnetic Properties of Aluminium doped Nickel Cobalt Nanoferrite By Sol-Gel Auto-combustion Method Vishakha Shinde ¹ , Arati Chandragupta Mehere ¹ , Pallavi Kadam ² , Sopan M. Rathod*	78
11	Synthesis and Characterization of Cobalt Zinc Ferrites by Coprecipitation Method Digambar D. Kulkarni ¹ , Joshi Vishwesh ² , Parikshit C. Pakhare ³ , Atharva R. Mehta ⁴ , Rutik B. Adurkar ⁵	79
12	Effect of covid-19 on Environment & Environmental Sustainability Raghuvir Suresh Rathod, Sushant Ravindra Yesare, Mr. S. A. Kazi*	79
13	Synthesis, Characterization, and Photoluminescence Study of Copolymer Derived From 2-Amino 6-nitrobenzothiazol, and Oxamide with Formaldehyde Punam G. Gupta ^a , R. H. Gupta ^b , W. B. Gurnule ^a	80
14	On The Economical Ways To Produce The Carbon Nanotubes In The Lab Dr. Vijay S. Raykar	80
15	Green synthesis of (E,4R,6R)-N-benzylidene-4-(3-methylthiophen-2-yl)-6-(thiophen-2-yl)pyrimidin-2-amine Derivatives Bhau A. Bulakhe	80
16	Preparation of ZnO nanoparticles using Zn (2-Mercaptobenzothiazole) ₂ as single source precursor and its application for treatment of organic toxic pollutant Ajay V. Gole, Hetal J. Mehta, Rahul SYadav, Akshit H. Nor and Saumiya Varadarajan	81
17	Synthesis and characterization study of greener, rock like Cu ₂ ZnSnS ₄ thin films by low cost chemical bath deposition method Sandesh B. Jirage ^a and Vijaykumar M. Bhuse ^{**}	81
18	Synthesis of Some Benzothiazepine Derivatives by using Mango Juice as a Green Catalyst S. G. Jagadhani	82
19	Synthesis, Characterization And Antimicrobial Screening Studies Of Some Metal Complexes Of Novel Schiff Base Of 3-Formyl-6-Chlorochromone And 3-Aminoquinoline Sushil K. Ghumbre	82
20	Synthesis of 3,5-disubstituted salicylaldehydes by one-pot migration-formylation of benzyl aryl ethers under Duff reaction condition Pradeep Lasonkar	82
21	Synthesis of Schiff's bases of different substituted tetrazole [1,5-a] Quinoline as potential antimicrobial agents Mahesh B. Auti ¹ , Mayur J. Gawande ¹ , Nilesh K. Halikar ¹ , & Sambhaji P. Vartale ^{2*}	83
22	Synthesis of Guar Gum Based Potent Hydrogel for Dye adsorption Puneet Kumar, Sandeep Chauhan	83
23	Synthesis of Fe ₃ O ₄ nano-crystallites using potassium trioxalato ferrate[III] as a single source precursor and application in treatment of toxic industrial effluent Ajay V. Gole, Hetal J. Mehta, Janvi N. Mehta, Shikha S. Thakkar and Vidhi H. Vyas.	84

Dr Jagtap sir - books/Chapter 1

भारतीय नाणा एक ऐतिहासिक ओळख

गुण
डॉ. वि. लोढा



मूळ लेखक : श्री. अभितेशर झा
भाषांतर : प्राचार्य डॉ. विजय अनंत कुलकर्णी
ग्रंथपाल श्री. डी. ए. जगताप

B. M.

PRINCIPAL
Loknate Gopinathji Munde
Arts, Commerce & Science College
Mandargad, Dist. Raichur, 415203.

B. M.
PRINCIPAL
Loknate Gopinathji Munde
Arts, Commerce & Science College
Mandargad, Dist. Raichur, 415203

भारतीय नाणी एक ऐतिहासिक ओळख

© प्राचार्य डॉ. विजय अनंत कुलकर्णी
ग्रंथपाल श्री. डी.ए. जगताप

ISBN No. : 978-93-86059-92-5

मूळ हिंदी पुस्तकाचे लेखक : श्री. अमितेश्वर झा
संचालक (संशोधन) नाणकशास्त्र संस्था, अंजनेरी-नाशिक, महाराष्ट्र

भाषांतर :

प्राचार्य डॉ. विजय अनंत कुलकर्णी
श्री. डी.ए. जगताप

ग्रंथपाल लोकनेते गोपीनाथजी मुंडे, कला, वाणिज्य व विज्ञान महाविद्यालय,
मंडणगड, जि. रत्नागिरी, महाराष्ट्र

पहिली आवृत्ती : ऑगस्ट २०२१

प्रकाशक :

स्वाती जोशी

परम मित्र पब्लिकेशन्स

६, राजदुर्गा, बी केबिन रोड,

नौपाडा, ठाणे (प.) ४०० ६०२.

ध्रमणध्वनी : ९९६९४९६६३४

इ-मेल : param_mitr@yahoo.com

मुखपृष्ठ :

इंडिया प्रिंटिंग वर्क्स

मुद्रक :

आनंद लिमये

इंडिया प्रिंटिंग वर्क्स

इंडिया प्रिंटिंग हाऊस,

४२, ग. द. आंबेकर मार्ग,

वडाळा, मुंबई - ४०० ०३१

दूरध्वनी : ०२२-२४१२ २७५५/५६

इ-मेल : anand@ipworks.in

मूल्य : ६०० रु. /-

PRINCIPAL

Loknata Gopinathji Munde
Arts, Commerce & Science College
Mandangad, Dist. Ratnagiri. 415203.

क ओळख
मूळ काम
भाषांतर,
ल संज्ञा,
भ्यासपूर्ण
श्री. डी.
वे लागेल
वाचक,
भाषांतरित
देण्याची
माहेश्वरी
री, जि.
कशास्त्र

च पण
विजय
वा एक
तिरकार

प्रभुणे
तिहास
विभाग
पुणे.

अनुक्रमणिका

नाण्यांचा प्रारंभ	१
भारतातील सर्वात प्राचीन नाणी	६
परदेशी राजांची नाणी	११
मौर्योत्तर काळातील स्थानिक नाणी	२०
कुषाणांची नाणी	३८
गुप्त साम्राज्याची नाणी	४५
सातवाहन आणि सातवाहनपूर्व काळातील नाणी	५२
पश्चिम क्षेत्रांची नाणी	६१
प्राचीन कालखंडातील दक्षिण भारतातील नाणी	६६
गुप्तोत्तर काळातील उत्तर भारतीय नाणी	७०
मध्ययुगपूर्व उत्तर भारतातील नाणी	७४
मध्ययुगपूर्व दक्षिण भारतातील नाणी	८१
दिल्लीच्या सुलतानशाहीची नाणी	८७
उत्तर भारतातील प्रांतीय सुलतानांची नाणी	९६
दक्षिण भारतातील प्रांतीय सुलतानांची नाणी	१०५
मुघलांची नाणी	११०

नऊ


PRINCIPAL
Loknath Gopinathji Munde
Arts, Commerce & Science College
Mandargol, Dist. Ratnagiri, 415203.



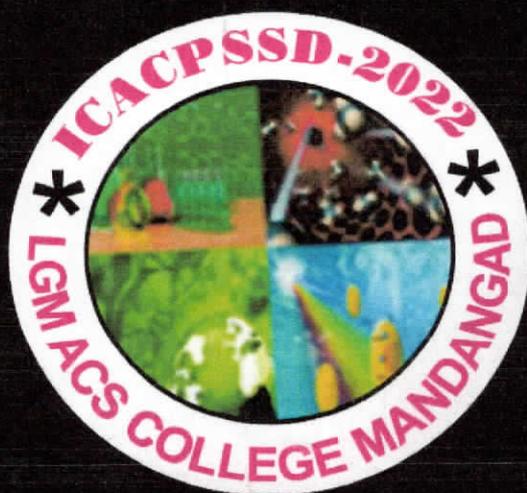
INTERNATIONAL E- CONFERENCE ON
ADVANCES IN CHEMICAL & PHYSICAL SCIENCES FOR
SUSTAINABLE DEVELOPMENT
(ICACPSSD-2022)



28th -29th April 2022

Organized by

Department of Chemistry & Physics



Conference Proceeding

Savitribai Phule Shikshan Prasarak Mandal's

**LOKNETE GOPINATHJI MUNDE ARTS, COMMERCE & SCIENCE
COLLEGE MANDANGAD, DIST-RATNAGIRI 415203 (M.S.)**

(Affiliated to University of Mumbai) NAAC Re - Accredited with Grade 'B+' ISO 9001:2015 Certified

Website: lgmacscollegemandangad.com, - Email - maccmandangad@rediffmail.com

Published at: *Savitribai Phule Shikshan Prasarak Mandal's
Loknete Gopinathji Munde Arts, Commerce & Science
College Mandangad, Dist- Ratnagiri -415203 (M.S.)*

Publication: *Incidental*

Nationality: *Indian*

Editor:

1. Dr. R. N. Jadhav	5. Dr. S. A. Dhanmane
2. Dr. R. J. Deokate	6. Mr. S. C. Bulakhe
3. Dr. M. S. Kadam	7. Mr. S. A. Nirwan
4. Dr. S. A. Khishte	8. Mr. S. A. Kazi

ISBN- *978-93-91265-56-4*

Date of Publication: *29 April 2022*

DISCLAIMER

The responsibility of the originality, style and content of the Proceeding of " Advances in Chemical and Physical Sciences for Sustainable Development" (ICACPSSD-2022) dated on 28-29 April, 2022 organized by Chemistry and Physics Departments of Loknete Gopinathji Munde Arts, Commerce and Science College, Mandangad, Ratnagiri (Maharashtra) 415203 India, remains with authors of the Paper, abstract. The Convener, Co-Convener, Organizing Committee need no agree with the views expressed in the articles. All the Papers and abstracts included in the Proceeding are received through the email from the authors and incorporated as such.

Index:-

Sr.No	Title of the paper	Page No.
Paper No.01	Histochemical Investigation of Medicinally Important Plant of <i>Woodfordia fruticosa</i> (L.) Kurz. in Mandangad Tahsil, Ratnagiri Chavan Vinodkumar Dhananjay	17
Paper No.02	Studies of the Physico-Chemical Parameters in the Water Samples from Different Water Reservoirs from Village Mangle, Tal Shirala, Dist Sangli (M.S.) Vijay Jagtap, Santosh Marathe, Vikram Masal, Kailas Gandhi	20
Paper No.03	Synthesis of Heterocyclic Compounds Containing 1, 2, 4-Triazole and biological activity Amol Rangrao Suryawanshi	22
Paper No.04	Effect of Fly Ash on Cement hydration by using an isothermal calorimeter Dr. R. A. Tayade ^a , Sushil. D. Patil ^a	25
Paper No.05	Synthesis of mono & poly-substituted derivatives of Indole: A Review Sharif A. Kazi ¹ Sandip A. Nirwan [*]	31
Paper No.06	Synthesis and Characterization of Nickel Sulfide nanoparticles Julekha A. Shaikh [*]	36
Paper No.07	Water Pollution in the India- A Review Shrikant kekane ¹ , Ganesh Bhagure ²	40
Paper No.08	Manganese doped iron tartrates as efficient catalyst for the synthesis of 3,3,6,6-tetramethyl-9-aryl-1,8-dioxooctahydro xanthene derivatives Mahesh Walle, Gawali Sunil, Kambale Snehal	44
Paper No.09	Biological Activity of Metronidazole Coordination Complexes with Transition Series Metals Rh (III) and Ru (III) Kadam Mukesh Shankarrao	47
Paper No.10	Transition metal complexes having N / S and / O donor Schiff base ligands as a potential bioactive molecule: Review Dnyandev G. Bhosale ¹ , Arun S. Chopade ¹ , Dattatray G. Raut ² , Anjana S. Lawand ^{2*}	52
Paper No.11	Role of transition metal based oxides and their nanocomposites for dye degradation: Review Arun S. Chopade ¹ , Dnyandev G. Bhosale ¹ , Mukund G. Mali ^{2*}	55
Paper No.12	Physical Properties of Matter: A short view Dr Hari Gangadhar Kale	57
Paper No.13	Synthesis of Chromenes by Multicomponent Reactions (MCRs): A Review Sandip A. Nirwan ^{1, 2} , Sharif A. Kazi ¹ & Sushilkumar A. Dhanmane ^{2*}	59
Paper No.14	Health Effects And Treatment Of Arsenic Poisoning In Ground Water: A Review Suresh D. Dhage, Mr. Sandip Nirwan	61
Paper No.15	Experimental Study on Effect of Solar Radiation and Dust on the Power Output of Solar PV Panels Koushal Shringi and Namrata Sengar	64
Paper No.16	Ortho Phenyl diamine, An Active compound: Review K. B. Sakhare ¹ , K. N. Sarwad ² , S. V. Thakur ³ M. A. Sakhare ²	68
Paper No.17	Transition metal phosphides as efficient catalysts for water splitting application S. C. Bulakhe	71
Abstract		
01	To Synthesis W (II) and Re (II) Coordination Complexes with Ethambutol and Their Antimicrobial Activity Chougale Amal Dost Mohammed, Chougale Ruwaida Mohammed Jalil, Dr. Kadam M.S.*	75
02	Antimicrobial Activity of Fe (II) and Ni (II) With Acetylacetonato Bate Madiha Mazhar, Khalfe Simran Abdul Samad, Nikhil Chavan & Dr. Kadam M.S.*	75