
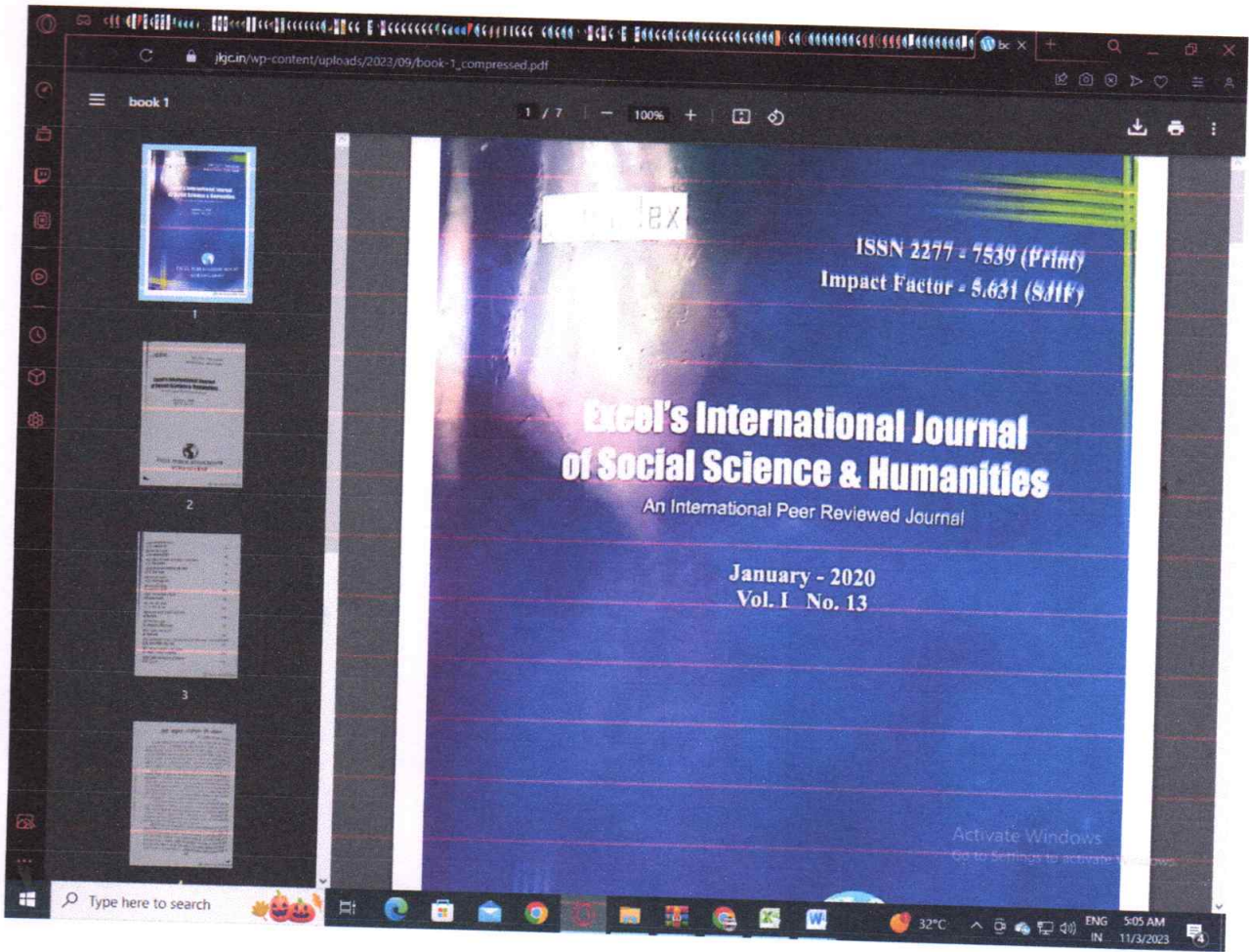


Name of Journal: ShodhSahitya

Name of Author : Dr. Gaikwad N. R. in year 2021

**Title of Paper :Vartman Media
ParivartitSahityaavamJanjivan**

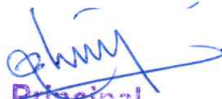

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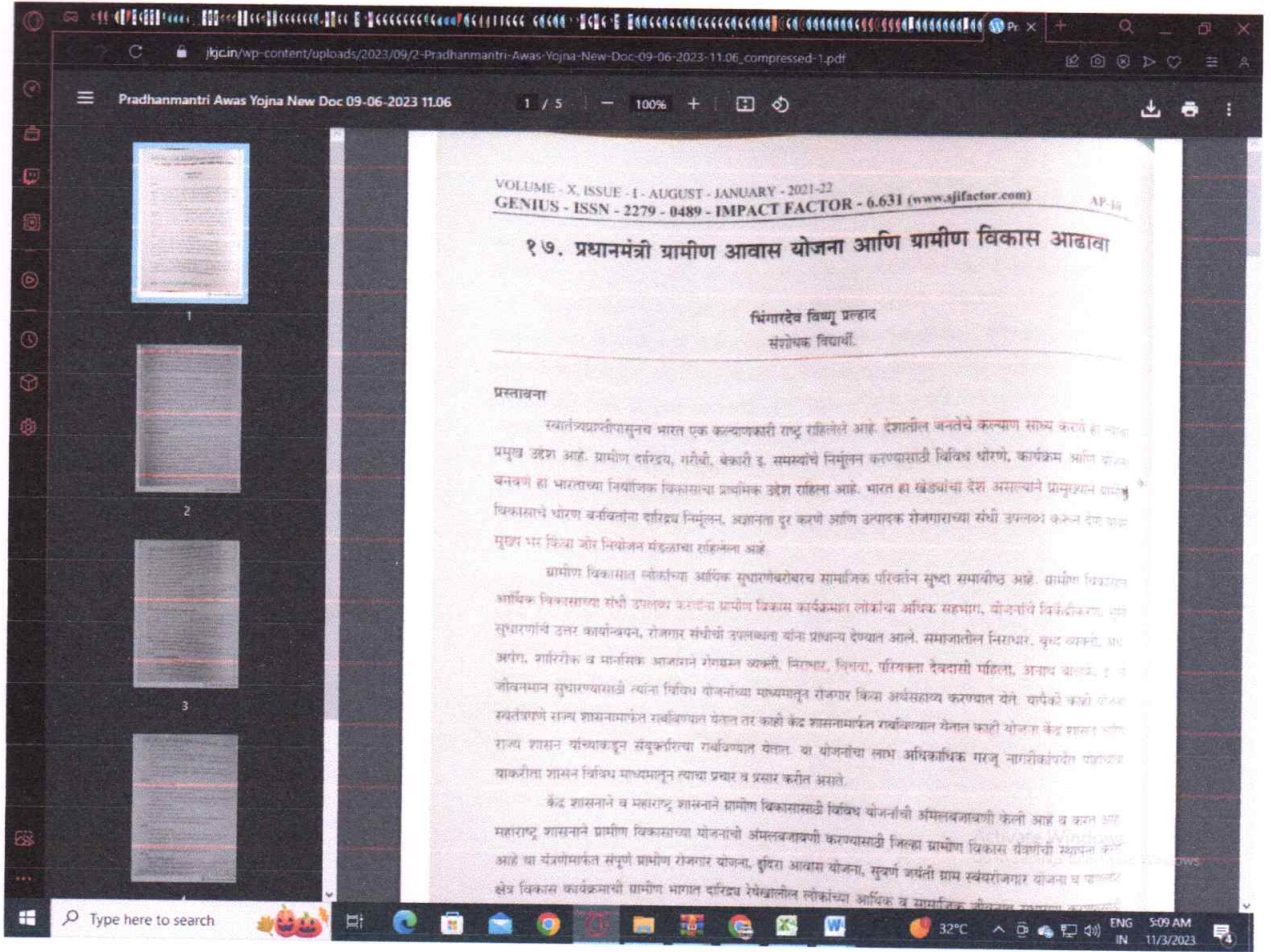
Name of Journal: Excel Publication House Aurangabad

Name of Author : Dr. Gaikwad N. R. in year 2020

Title of Paper : Hindi AnuadRashtriyatakiPahechan


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Name of Journal: Ajanta Prakashan

Name of Author: Dr. V. P. Bhingardeo in year 2021

Title of Paper

:PradhanmantriGraminAwasYojnaAniGraminVikasAdha

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Available online at www.derpharmachemica.com

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Der Pharma Chemica, 2017, 9(23):56-58
(<http://www.derpharmachemica.com/archive.html>)

Synthesis and Antimicrobial Screening of Novel 4-aryl-6-(4-(pyrrolidin-1-yl)phenyl)pyrimidin-2-amine

Shivajirao N Thore^{1*}, Sandeep D Pardeshi², Jayant P Sonar², Shrikant A Dukhe², Ashok M Zine³

¹Department of Chemistry, Deogiri College, Aurangabad, Maharashtra, India
²Department of Chemistry, Vinayakrao Patil Mahavidyalaya, Vijapur, Dist. Aurangabad, Maharashtra, India
³Department of Chemistry, Sunderrao Solanke Mahavidyalaya, Majalgaon, Dist. Beed, Maharashtra, India

ABSTRACT

In the present work 4-aryl-6-(4-pyrrolidin-1-yl)phenylpyrimidin-2-amine were synthesized by reacting chalcones with guanidine hydrochloride. The synthesized compounds were tested for antibacterial and antifungal activity.

Keywords: Pyrrolidine, Chalcone, Pyrimidine, Antibacterial activity, Antifungal activity

INTRODUCTION

A wide variety of heterocyclic compounds plays an important role in the pharmaceutical fields. Most of the commercially available drug molecules contains heterocyclic ring as a structural backbone. Pyrimidine ring is present in many biological compounds [1]. Pyrimidine derivatives have reported as anti-histaminic agents [2], antimicrobial agents [3], antitubercular agents [4], antifungal agents [5], anti-tumor agent [6], anticancer agent [7], analgesic, anti-inflammatory agents [8], antipyretic [9,10], antioxidant agents [11]. In the continuation of our research work to synthesis pyrrolidine containing heterocyclic compounds [12-14], we are reporting the synthesis of pyrrolidine containing pyrimidine derivatives.


MATERIALS AND METHODS

Chemistry

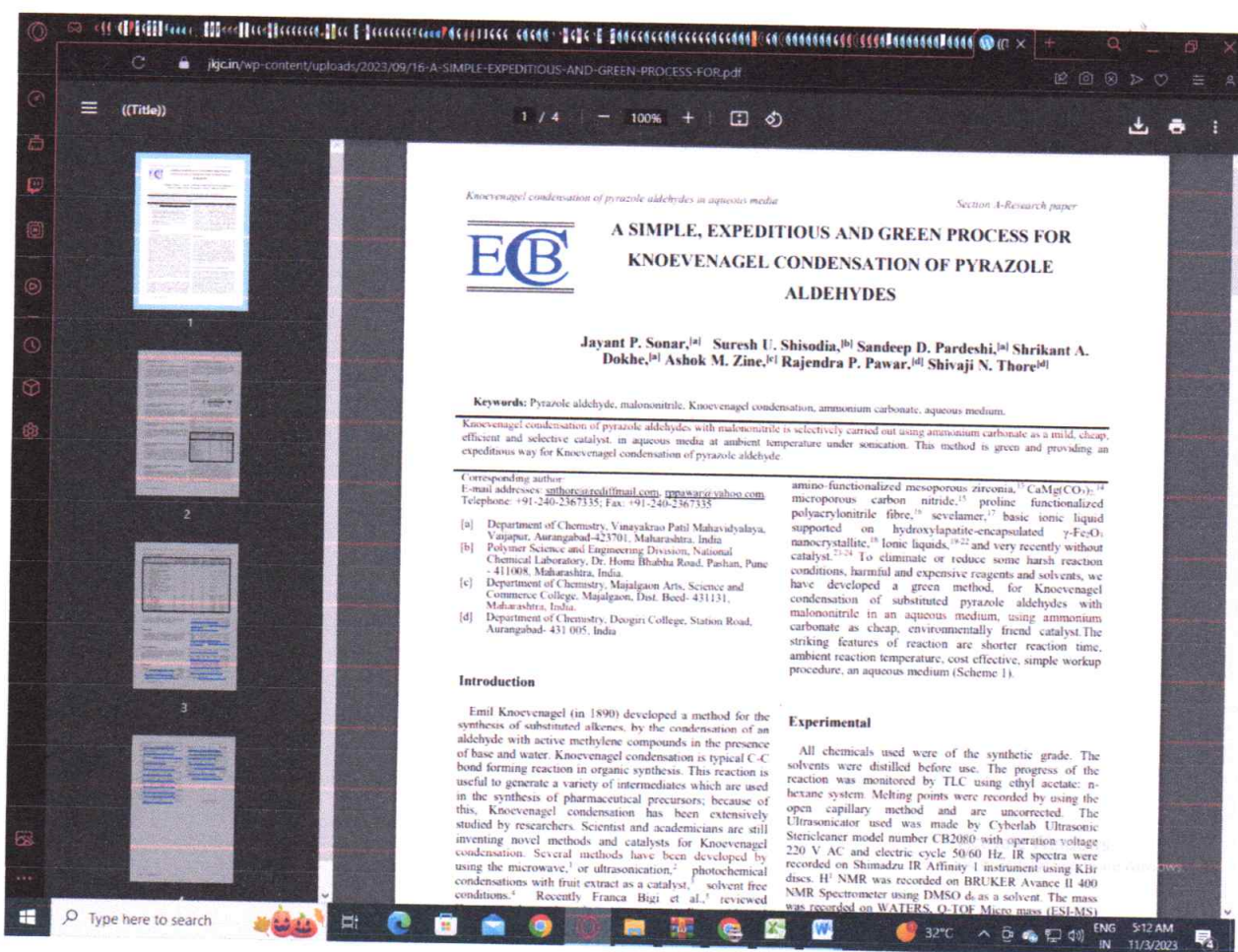
The entire chemicals were purchased from Sigma-Aldrich, used without further purification. The melting points were recorded by open capillary method and are uncorrected. ¹H-NMR spectra were recorded on Mercury Plus Varian in DMSO-d₆ at 400 MHz using Tetramethylsilane (TMS) as an internal standard. Mass spectra were recorded on Micromass Quattro II using electrospray ionization technique. The progress of reaction

Name of Journal: Der PharmaChemica

Name of Author: Dr. A. M. Zine in year 2017

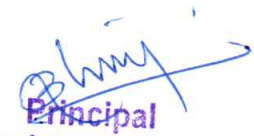

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Title of Paper :Synthesis and Antimicrobial Screening of Novel 4-aryl-6-(4-(pyrrolidin-1-yl)phenyl) pyrimidin-2-amine.

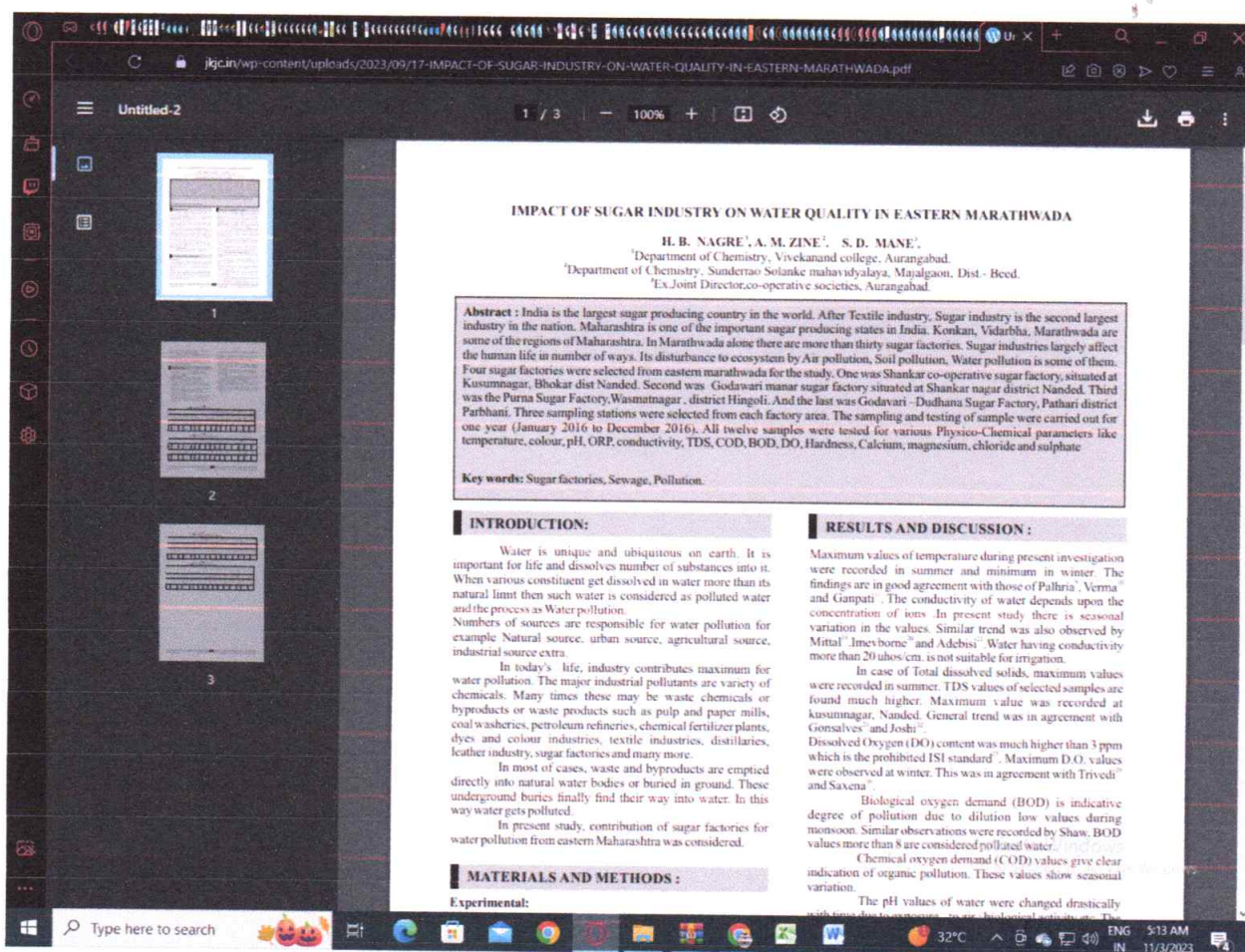


Name of Journal: European Chemical Bulletin.

Name of Author: Dr. A. M. Zine in year 2017

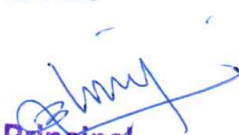

Principal
J.K. Jadhav Arts, Comm. & Science
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Title of Paper :A Simple Expeditious and Green Process for Knoevenagel Condensation Pyrazole Aldehyde.

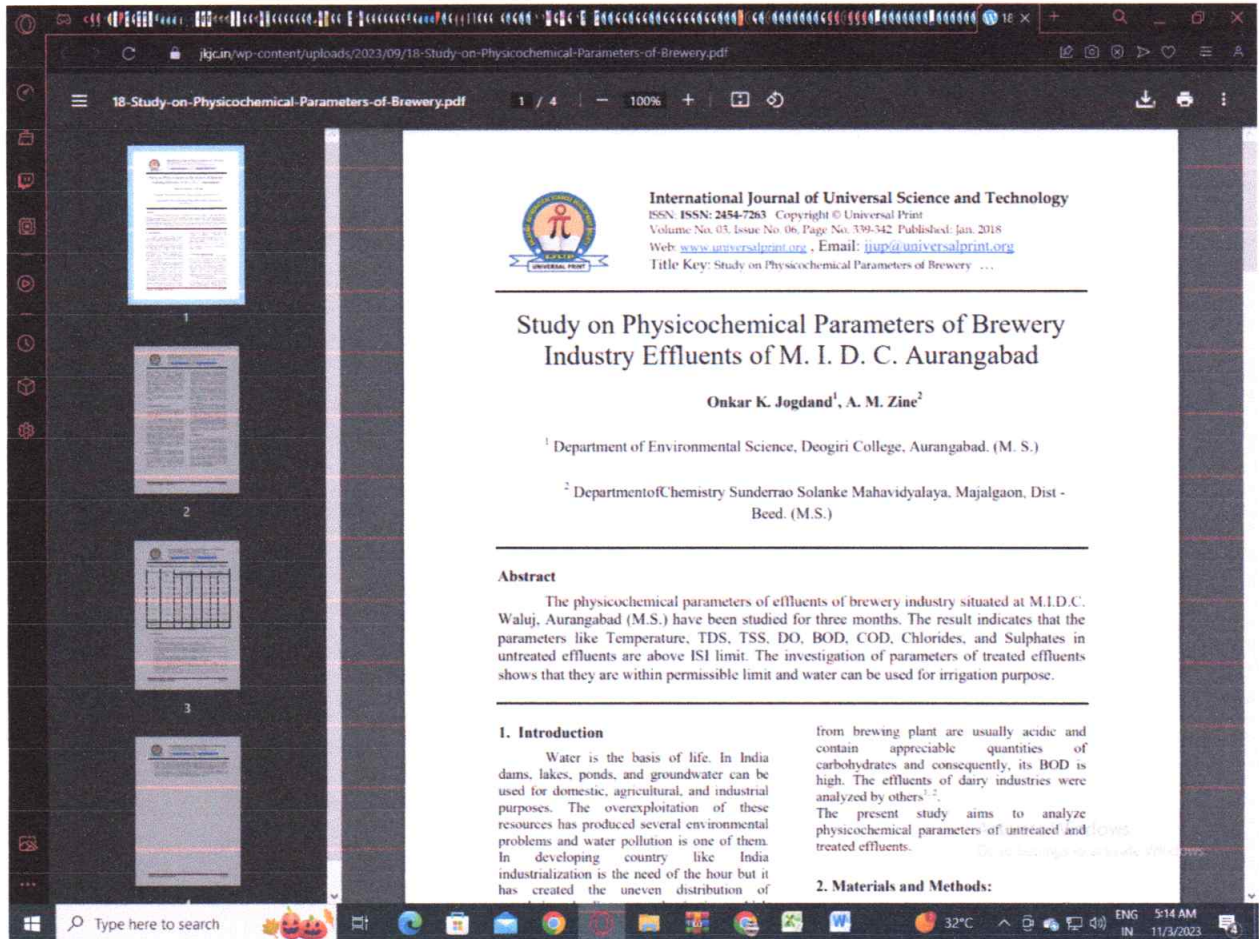


Name of Journal: BIONANO FRONTIER

Name of Author: Dr. A. M. Zine in year 2017


Principal
J.K.Jadhav Arts, Comm.& Science
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Title of Paper :Impact of Sugar Industry on Water Quality in Eastern Marathwada.



Name of Journal: International Journal of Universal Science and Technology.


Principal
J.K.Jadhav Arts, Comm.& Science
Mahavidyalaya, Vaijapur (Code 334

Name of Author: Dr. A. M. Zine in year 2017

Title of Paper :Study on Physicochemical Parameters of Brewery Industry Effluents of M. I. D. C. Aurangabad.

19-Adsorption-Studies-of-Acid-Red-73-on-Parthenium-hyst... 1 / 10 100% +

IJCPS Vol. 7, No. 4, July-Aug 2018
www.ijcps.org ISSN:2319-6602
International Journal of Chemical and Physical Sciences

Adsorption Studies of Acid Red 73 on Parthenium hysterophorus L.
ZINE A.M.¹, THORE S.N.², PAWAR R.P.², PARDESHI S.D.¹, LIGDE N.M., SONAR J.P.¹

¹Department of Chemistry, Vinayakrao Patil Mahavidyalaya, Vaijapur, Dist.- Aurangabad, 423701
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Received: 27.03.2018 Accepted: 30.04.2018 Published Online 15.08.2018
<https://doi.org/10.30731/ijcps.7.4.2018.13-22>

Abstract


The adsorption behavior of Acid red 73 onto Parthenium hysterophorus L. from aqueous solution was investigated. Adsorption kinetics, equilibrium, and thermodynamics were investigated as a function of initial concentration and temperature. Three kinetic models – the pseudo first-order, second order and Elovich were used to investigate the adsorption mechanism. Evaluation of kinetic models showed that the pseudo first order kinetic model was found to correlate the experimental data. The adsorption data were modeled by using Langmuir, Freundlich and Temkin adsorption isotherms. The data were well represented by Freundlich isotherm equation and the calculated thermodynamic parameters indicated a spontaneous and exothermic nature of the adsorption process.

Key words: Parthenium L., Acid Red 73, Adsorption kinetics, Thermodynamics.

Introduction

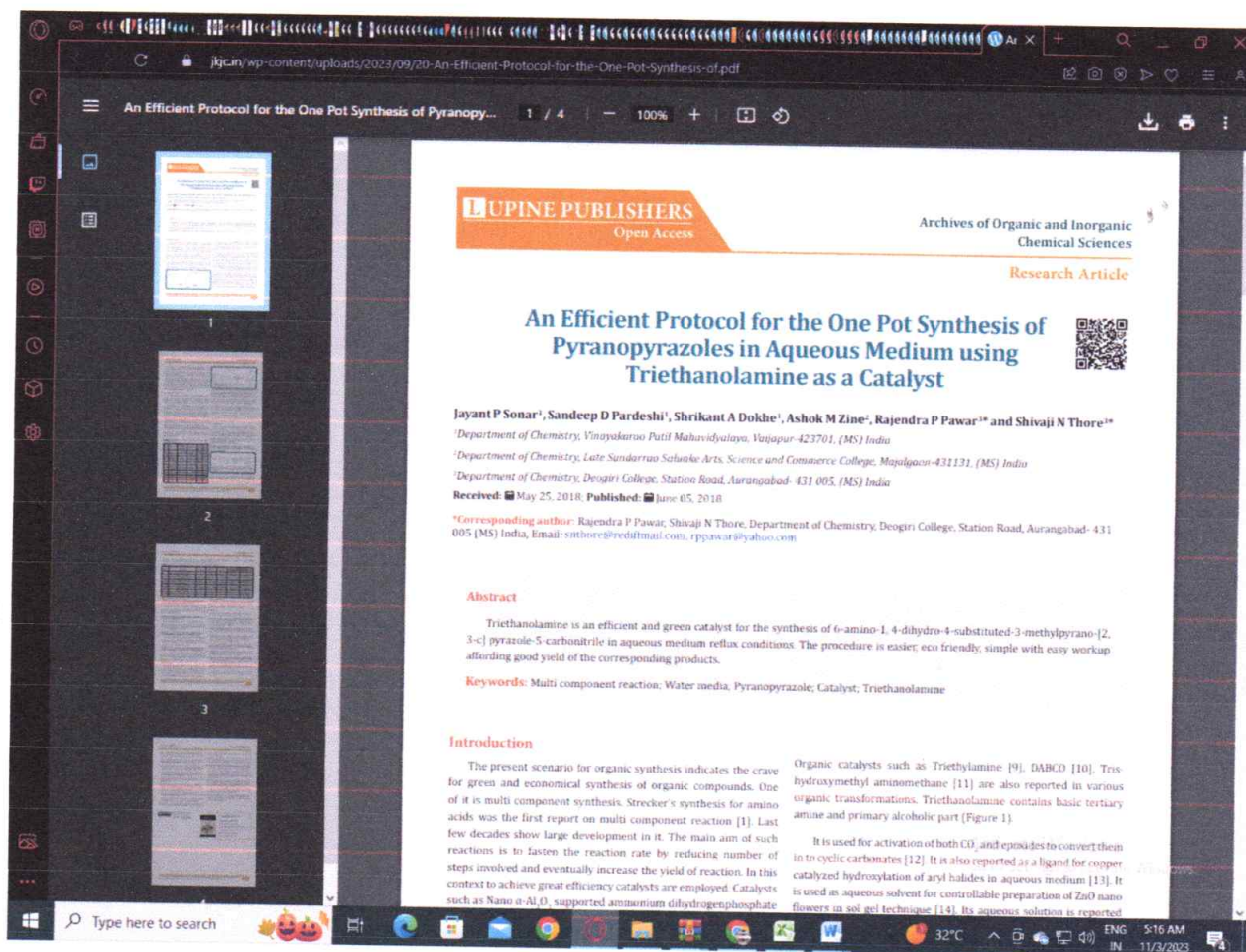
In this work, the ability of PL to remove Acid Red 73 from aqueous solution by adsorption was investigated. Many industries like textile, leather, paper, cosmetic, plastic, painting, food and pharmaceuticals use the various dyes¹. Most of the used solutions containing such dyes are discharged as effluents. Some of the dyes or their metabolites are known to be toxic, carcinogenic and mutagenic². Many dyes are stable to light and the oxidizing agent, hence difficult to degrade. The dyes even at lower concentration impart color to water bodies; prevent photosynthesis and poses danger to aquatic life^{3,4,5}. The removal of dyes from waste water is very important from the environmental point of view^{6,7}. There are many processes used for removal of colored dye from industrial effluent which are like coagulation, flocculation, chemical oxidation, ion exchange, biodegradation, electrolysis, photo catalysis, and adsorption. Adsorption is one of the most effective processes used for the dye removal if the

Name of Journal: International Journal of Chemical and Physical Sciences.


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Name of Author: Dr. A. M. Zine in year 2018

Title of Paper :Adsorption Studies of Acid Red 73 on Partheniumhysterophorus L.



Name of Journal: Archives of Organic and Inorganic Chemical Sciences

Name of Author: Dr. A. M. Zine in year 2018


Principal
J.K.Jadhav Arts, Comm.& Science
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Title of Paper :An Efficient Protocol for the One Pot Synthesis of Pyranopyrazoles in Aqueous Medium using Triethanolamine as a Catalyst.

The screenshot shows a PDF document with the following content:

Submitted benzothiazole-2,4-dicarboxamides having biological activity Section 4-Research paper

SYNTHESIS OF NOVEL SUBSTITUTED-BENZO[d]THIAZOLE-2,4-DICARBOXAMIDES HAVING KINASE INHIBITION AND ANTI-PROLIFERATIVE ACTIVITY

Dattatraya D. Gaikwad,^[a] Chandrakant D. Pawar,^[b] Dattatraya N. Pansare,^[a] Sadhana L. Chavan,^[a] Umakant D. Pawar,^[c] Rohini N. Shelke,^[a] Santosh L. Chavan,^[d] Rajendra P. Pawar,^[a] Ashok M. Zine^{*[a]}

Keywords: Benzothiazoles; carboxamides; anticancer activity; kinase inhibitors.

A series of novel derivatives containing N⁴-(4-fluorophenyl)-N²-substituted-benzothiazole-2,4-dicarboxamides were synthesized via an efficient, mild and convenient multistep reaction protocol with excellent yields. The structure of the synthesized compounds were confirmed by IR, ¹H NMR, ¹³C NMR, ¹⁹F NMR, mass spectra, elemental analysis and purity was checked by HPLC. All synthesized compounds were screened for anticancer activity against A-549 and Da-145 cancer cell lines by MIT assay. The preliminary bioassay suggests that most of the compounds show anti-proliferation with different degrees. The synthesized compound shows IC₅₀ values in the range of 1.52-17.18 μM in both cell lines. The compounds having electron donating groups had higher anticancer activity compared compounds with electron withdrawing substitutions.

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[a] Department of Chemistry, Deogiri College, Aurangabad, 431005 (MS), India
[b] Department of Chemical Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 431004 (MS), India
[c] Regional Forensic Science Laboratories, Aurangabad, 431004(MS), India
[d] Maharashtra Pollution Control Board, Aurangabad, 431004(MS), India

INTRODUCTION

The kinases plays important role in cell functioning. There are over 500 kinases comprising in the human kinome, and all are associated with the functioning of cells.¹ Different types of kinases are responsible for different functioning of cells, some kinases are target of rapamycin (TOR) signaling for cell growth.²⁻⁴ Some are protein tyrosine kinase inhibitors. By considering the importance of kinases we need to develop new kinase inhibitors with diversified activity.

work,¹⁸⁻²⁰ we have synthesized a series of substituted -benzothiazole derivatives and all the synthesized compounds were tested for their biological activity in cell line and enzymatic study.

RESULTS AND DISCUSSION

We have synthesized a series N⁴-(4-fluorophenyl)-N²-substituted-benzothiazole-2,4-dicarboxamides (**10a-10i**) starting from easily available 2-amino-3-chlorobenzonitrile (**1**).

The reaction scheme shows the synthesis of compounds 10a-10i from 2-amino-3-chlorobenzonitrile (1). The scheme includes structures 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10a-10i.

Name of Journal: European Chemical Bulletin.

Name of Author: Dr. A. M. Zine in year 2019


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J.K.Jadhav Arts, Comm.& Science
Mahavidyalaya, Vaijapur (Code 334)

Title of Paper :Synthesis of Novel Substituted – Benzo Thiozole-2,4- Dicarboxamides having Kinase inhibition and Anti-proliferative Activity.

The screenshot shows a PDF document with the following details:


- Journal:** European Chemical Bulletin (ECB)
- Section:** Section 3-Research paper
- Title:** ONE POT SYNTHESIS OF PYRANOPYRAZOLES USING SODIUM LACTATE AS AN EFFICIENT CATALYST
- Authors:** J. P. Sonar,^[a] S. D. Pardeshi,^[a] S. A. Dokhe,^[a] G. M. Bhavar,^[a] S. U. Tekale,^[c] A. M. Zine^[b] and S. N. Thore^[c]
- Keywords:** catalyst, green synthesis, one pot, pyranopyrazole, sodium lactate
- Abstract:** An efficient one pot synthesis of pyranopyrazoles has been achieved by the four-component condensation of hydrazine hydrate, ethyl acetoacetate, aldehydes and malononitrile using sodium lactate as a catalyst in aqueous ethanolic medium under reflux condition. The method is simple and green to afford pyranopyrazoles in a short time. It provides a new base catalyst that readily gives product from moderate to excellent yields.
- Introduction:** Addition of three or more starting materials in one pot and their transformation to final product without isolation of intermediate provides a significant tool for organic synthesis. After the Strecker's amino acid synthesis, many successful attempts were made for organic transformations such as the synthesis of pyranopyrazoles which is one of the most important heterocycles of great biological significance. Pyranopyrazolescaffolds are reported for various biological activities such as analgesic, anti-inflammatory,¹ antibacterial,² anti-microbial,³ and antitumor activity.⁴
- Experimental:** Melting points were recorded in open capillaries and are uncorrected. Structures of the synthesized products were assigned on the basis of spectral analysis. IR spectra were recorded on Shimadzu IR Affinity 1 spectrophotometer using KBr pellets. ¹H NMR spectra were recorded in DMSO-d₆ on a BRUKER AVANCE II 400 MHz spectrometer and the chemical shift were expressed in ppm.

Scheme 1: Four component pyranopyrazole synthesis.

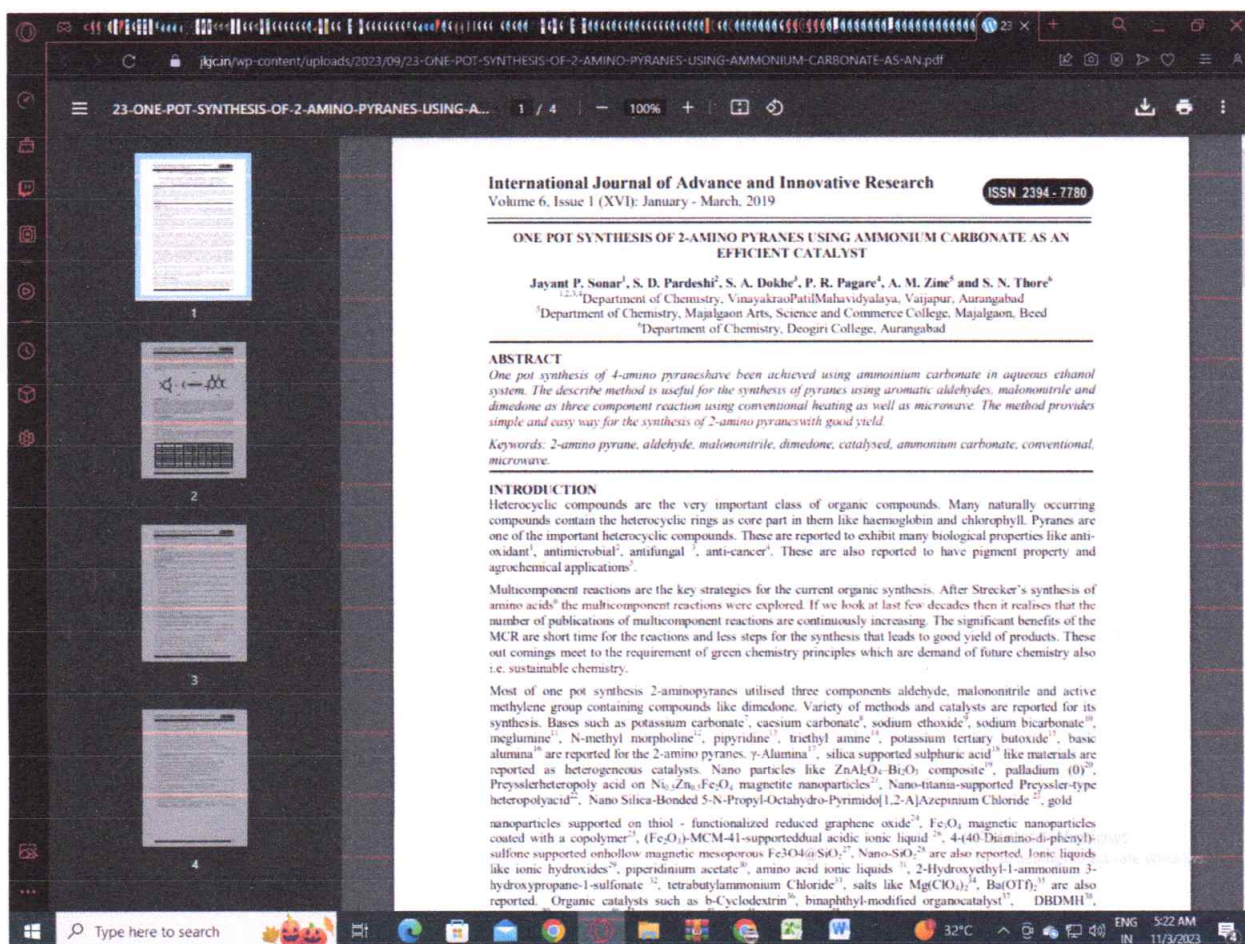
$$\text{N}_2\text{H}_4\cdot\text{H}_2\text{O} + \text{CH}_3\text{COCH}_2\text{COOEt} + \text{CH}_2(\text{CN})_2 + \text{Ar-CHO} \xrightarrow[\text{Ethanol-water (4:6)}]{\text{Sodium Lactate (10 mol\%)}} \text{Pyranopyrazole (5a-d)}$$

Name of Journal: European Chemical Bulletin.

Name of Author: Dr. A. M. Zine in year 2019



Principal
J.K.Jadhav Arts, Comm.& Science
Mahavidyalaya, Vaijapur (Code 334

Title of Paper :One Pot Synthesis of Pyranopyrazoles using Sodium Lactate as an Efficient Catalyst.



Name of Journal: International Journal of Advance & Innovative Research.

Name of Author: Dr. A. M. Zine in year 2019


Principal
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Title of Paper :One Pot Synthesis of 2-Amino Pyranes using Ammonium Carbonate as an Efficient Catalyst.

24.pdf

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'RESEARCH JOURNEY' International E-Research Journal
Impact Factor - (SJIF) - 6.261, (CIF) - 3.452(2015), (GIF)-0.676 (2013)
Special Issue 166 - Recent Advancement in Chemistry
UGC Approved Journal

E-ISSN :
2348-7143
March-2019


Removal of anionic dye Wool Green 5 by neutral Alumina as a low-cost adsorbent: Kinetic and Equilibrium study

A. M. Zine¹, S. N. Thore², S. D. Pardeshi¹, J. P. Sonar³, H. B. Nagre¹
1Department of Chemistry, SunderraoSolankeMahavidyalaya, Majalgaon, Dist. Beed 431131, Maharashtra, India.
2Department of Chemistry, Deogiri College, Station Road, Aurangabad-431005, Maharashtra, India.
3Department of Chemistry, Vinayakrao Patil mahavidyalaya, Vaijapur, Dist Aurangabad-423701, Maharashtra, India
Zine.ashok@gmail.com

Abstract:
In the present paper, the adsorption of anionic dye Wool Green 5 from aqueous solution by alumina was studied in a batch adsorption system as a function of contact time and initial concentration. Several adsorption kinetic models like pseudo-first-order, pseudo-second-order, Elovich, and diffusion models (Weber-Morris and Dumwald-Wagner and Film diffusion) were used to investigate the adsorption mechanism. The experimental results have shown that the R² of both the pseudo-first-order and pseudo-second-order are about 99%, but the comparison of experimental and calculated values of adsorption capacity and statistical parameters of error analysis shows the better fitment of the pseudo-second order kinetic model over the pseudo-first order and Elovich model.

Keywords: Parthenium L, Wool Green 5, adsorption, kinetic, Diffusion models, Alumina.

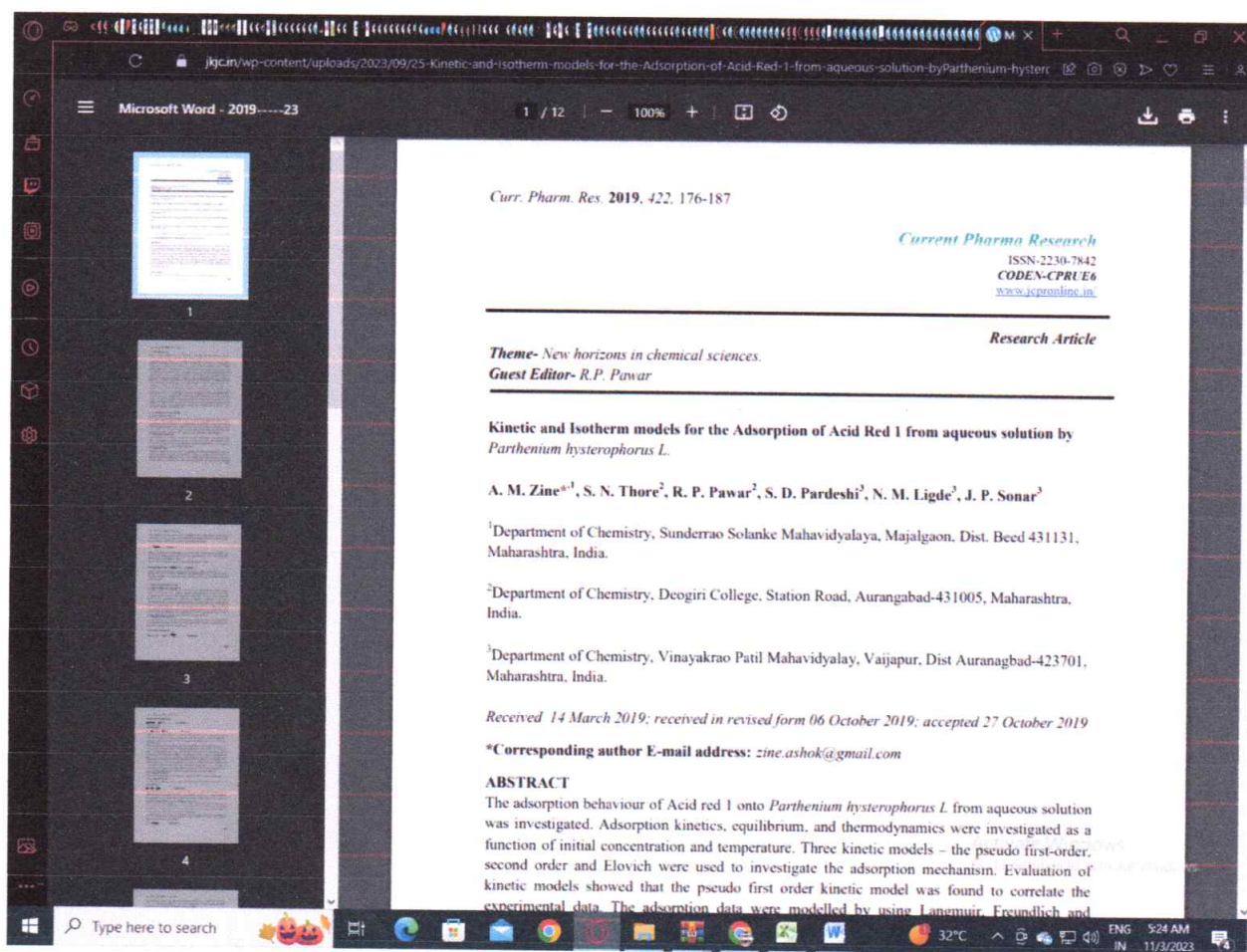
1. Introduction
Synthetic dyes are extensively used in various industries like paper, textile, plastic, carpet, food, cosmetics and leather tanning [1-3]. The unutilized and untreated dyes are released in industrial effluents leading to environmental pollution [4-6]. These dyes are non-biodegradable in nature and may be toxic to aquatic life. It has carcinogenic and mutagenic effects causing problems to kidneys, liver, brain, the reproductive and central nervous system [7-9]. The removal of dyes from wastewater effluents is of great importance. A number of removal methods such as adsorption, advanced oxidation, aerobic coagulation, anaerobic microbial degradation, and membrane separation are used to remove dyes from wastewater. Amongst all these removal methods, adsorption is the most widely used due to its cost-effectiveness and efficiency. Activated carbon is a widely used adsorbent material because of its high adsorption capacity and microporous structure [10]. But it has limitations due to its high cost and limited commercial use. There is a need to try for other adsorbent having low cost, low toxicity, and


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Name of Journal: Research Journey International e journal.

Name of Author: Dr. A. M. Zine in year 2019

Title of Paper :Removal of anionic dye Wool Green 5 by neutral Alumina as a low-cost Adsorbent: Kinetic and Equilibrium study.



Name of Journal: Journal of Current Pharma Research


Principal
J.K. Jadhav Arts, Comm. & Science
Mahavidyalaya, Vaijapur (Code 334)

Name of Author: Dr. A. M. Zine in year 2019

Title of Paper: Kinetic and Isotherm models for the Adsorption of Acid Red 1 from aqueous solution by Partheniumhysterophorus L.

The image shows a screenshot of a research article page. The article title is "An efficient method for the synthesis of 2,4,5-trisubstituted imidazoles using lactic acid as promoter". The authors listed are Jayant Sonar¹, Sandeep Pardeshi¹, Shrikant Dokhe¹, Rajendra Pawar⁴, Kiran Kharat⁵, Ashok Zine², Babasaheb Matsagar³, Kevin Wu³, and Shivaji Thore⁴. The article is published by Springer Nature Switzerland AG in 2019. The abstract describes the synthesis of 2,4,5-trisubstituted imidazole compounds from an aromatic aldehyde, benzil, and ammonium acetate using biodegradable lactic acid at 160 °C. A graphic abstract shows a round-bottom flask containing a green liquid, with three beakers pouring into it: one with a red liquid labeled "Ph-CO-O", one with a blue liquid labeled "Ar-CHO", and one with a pink liquid labeled "CH₃COONH₄". The flask contains a chemical structure of a 2,4,5-trisubstituted imidazole. The keywords are "Lactic acid · Promotor · Green solvent · 2,4,5-Trisubstituted imidazoles".


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Name of Journal: SN Applied Sciences


Name of Author: Dr. A. M. Zine in year 2019

Title of Paper: An efficient method for the synthesis of 2,4,5-trisubstituted imidazoles using lactic acid as promoter.

The screenshot shows a PDF document titled "Synthesis and anti-proliferative activity studies of 2-(2-(trifluoromethyl)-6-(substituted)imidazo[1,2-b]pyridazin-3-yl)-N-(substituted)acetamide derivatives". The document is published by Wiley and includes the following information:

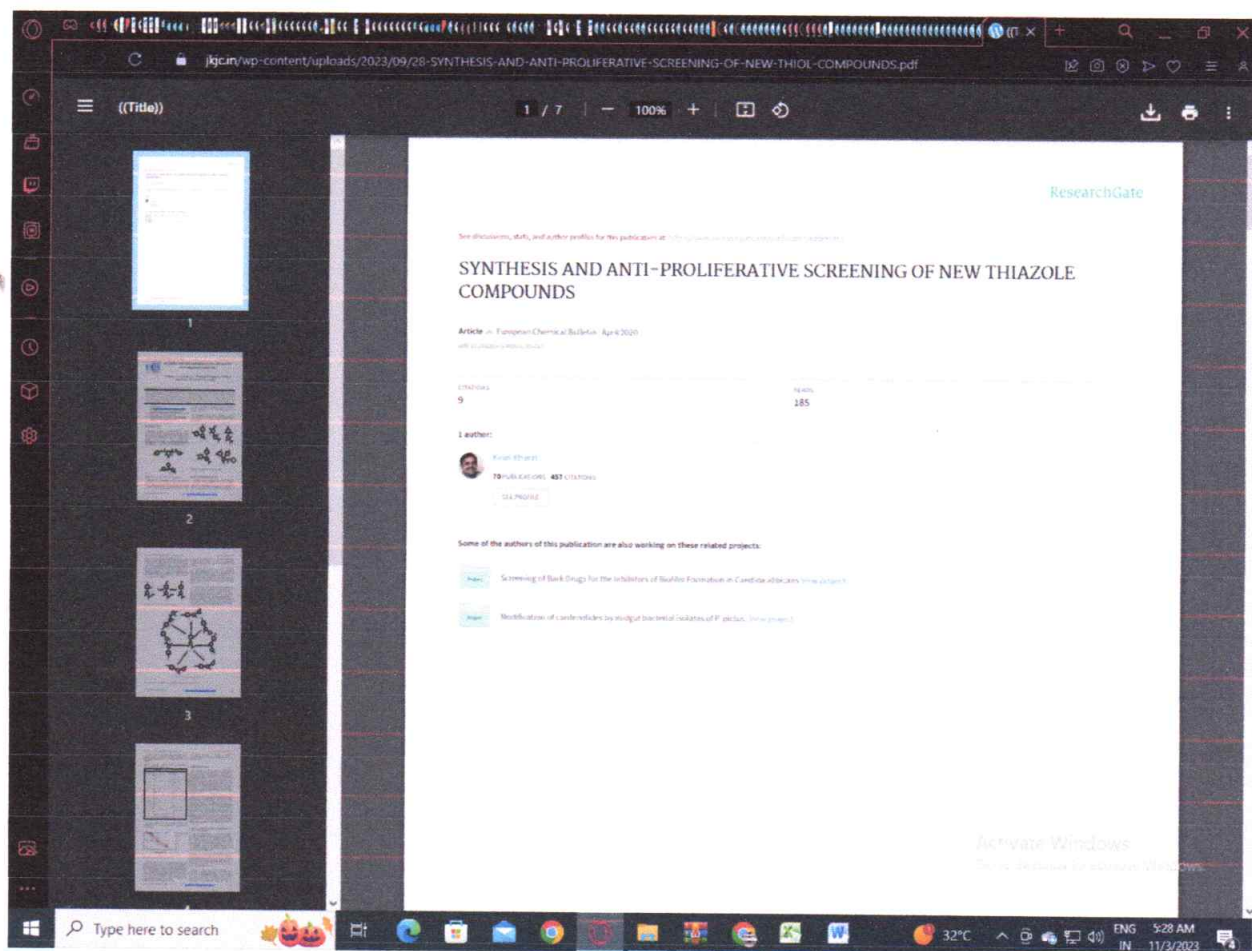
- Received: 27 August 2019 | Revised: 27 December 2019 | Accepted: 22 January 2020
- DOI: 10.1002/jsm.1920
- ARTICLE
- WILEY
- Check for updates
- Received: 27 August 2019 | Revised: 27 December 2019 | Accepted: 22 January 2020
- DOI: 10.1002/jsm.1920
- ARTICLE
- WILEY
- Check for updates
- Synthesis and anti-proliferative activity studies of 2-(2-(trifluoromethyl)-6-(substituted)imidazo[1,2-b]pyridazin-3-yl)-N-(substituted)acetamide derivatives
- Dattatraya D. Gaikwad¹ | Umakant D. Pawar² | Sadhana L. Chavan¹ | Chandrakant D. Pawar³ | Dattatraya N. Pansare¹ | Rohini N. Shelke¹ | Santosh L. Chavan⁴ | Ashok M. Zine⁵
- ¹Department of Chemistry, Deogiri College, Aurangabad, Maharashtra, India
- ²Department of Chemistry, Regional Forensic Science Laboratories, Aurangabad, Maharashtra, India
- ³Department of Chemical Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India
- ⁴Department of Chemistry, Maharashtra Pollution Control Board, Aurangabad, Maharashtra, India
- ⁵Department of Chemistry, Vinayakrao Patil College, Vaijapur, Maharashtra, India
- Correspondence: Dattatraya N. Pansare, Department of Chemistry, Deogiri College, Aurangabad 431005, Maharashtra, India. Email: dnpansare74@gmail.com
- Abstract: A series of novel imidazo[1,2-b]pyridazin-3-yl acetamide derivatives (9a-9j) were synthesized from a 3,6-dichloropyridazine. We have developed a simple strategy for the synthesis of functionally diverse imidazole, and pyridiazine derivatives were reported via a series of steps. The work involves bicyclic imidazo-pyridazine ring formation, halogenation, cyation, hydrolysis, peptide coupling, and Buchwald reaction. The structure of the synthesized compounds was confirmed by IR, ¹H NMR, ¹³C NMR, ¹⁹F NMR, mass spectra, and elemental analysis, and purity is checked by HPLC. All synthesized compounds were screened for anticancer activity against A-549 and Du-145 cancer cell lines by MTT assay. The preliminary bioassay suggests that most of the compounds show anti-proliferation with different degrees; doxorubicin was used as positive control. The synthesized compound shows IC₅₀ values in the range of 1.74 μM to 16.17 μM in both cell lines. The compounds 9e, 9g, and 9h were active compared with doxorubicin in both the cell lines. The compounds having cyclopentyl ring are active compared with higher and lower carbon analogues.
- 1 | INTRODUCTION
- Cancer is considered as one of the major causes of new chemotherapeutic targets with selective action has to be identified, as many classes of heterocycle scaffolds were used for the different types of cancers. For normal


Name of Journal: Journal of Heterocyclic Chemistry


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J.K. Jadhav Arts, Comm. & Science
Mahavidyalaya, Vaijapur (Code: 334)

Name of Author: Dr. A. M. Zine in year 2019

Title of Paper: Synthesis and anti-proliferative activity studies of 2-(2-(trifluoromethyl)-6-(substituted)imidazo[1,2-b]pyridazin-3-yl)-N-(substituted)acetamide derivatives.

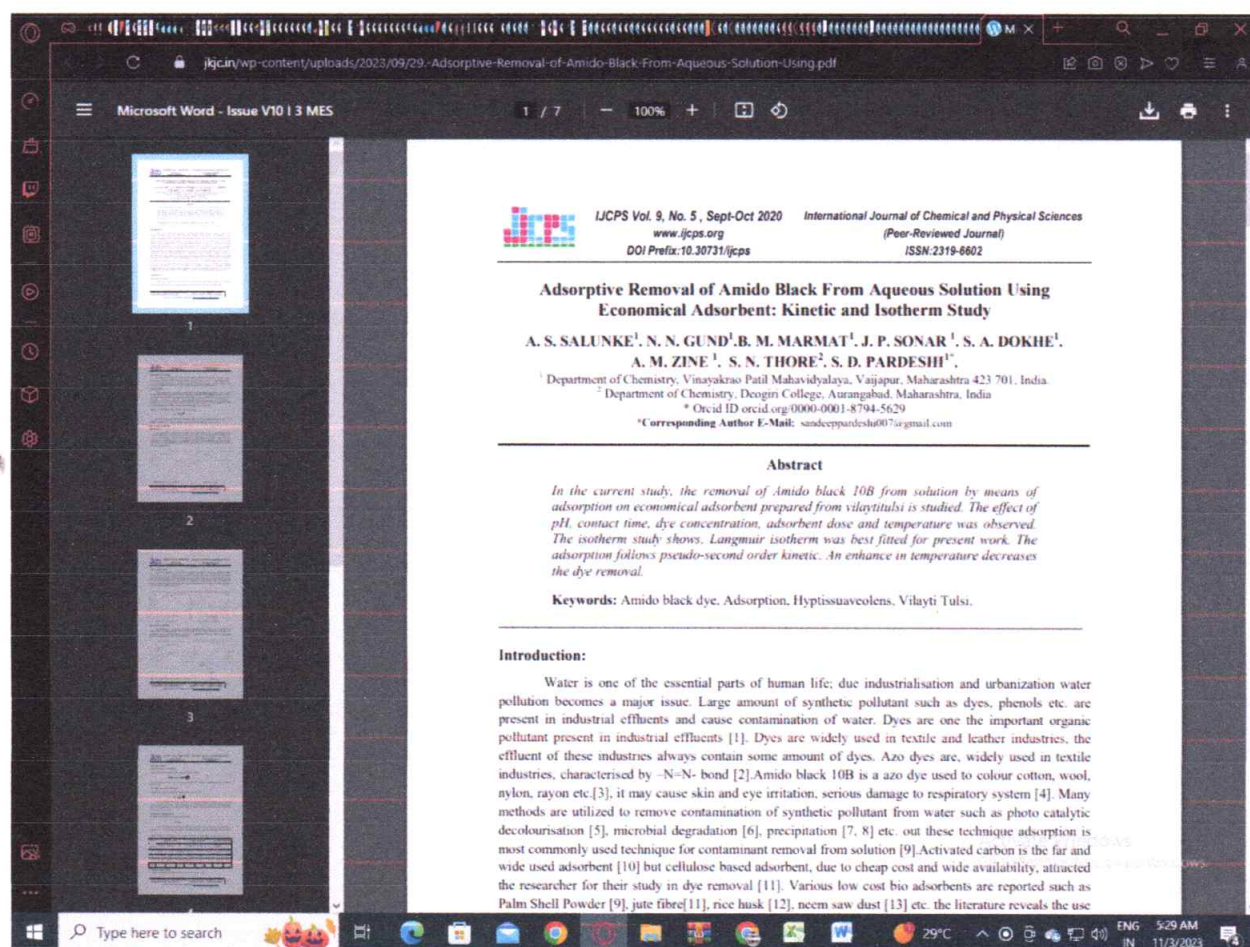



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Name of Journal: European Chemical Bulletin 9(5):132-137

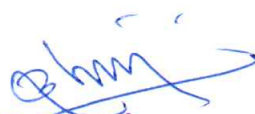
Name of Author: Dr. A. M. Zine in year 2019

Title of Paper: Synthesis and antiproliferative screening of new thiazole compounds.

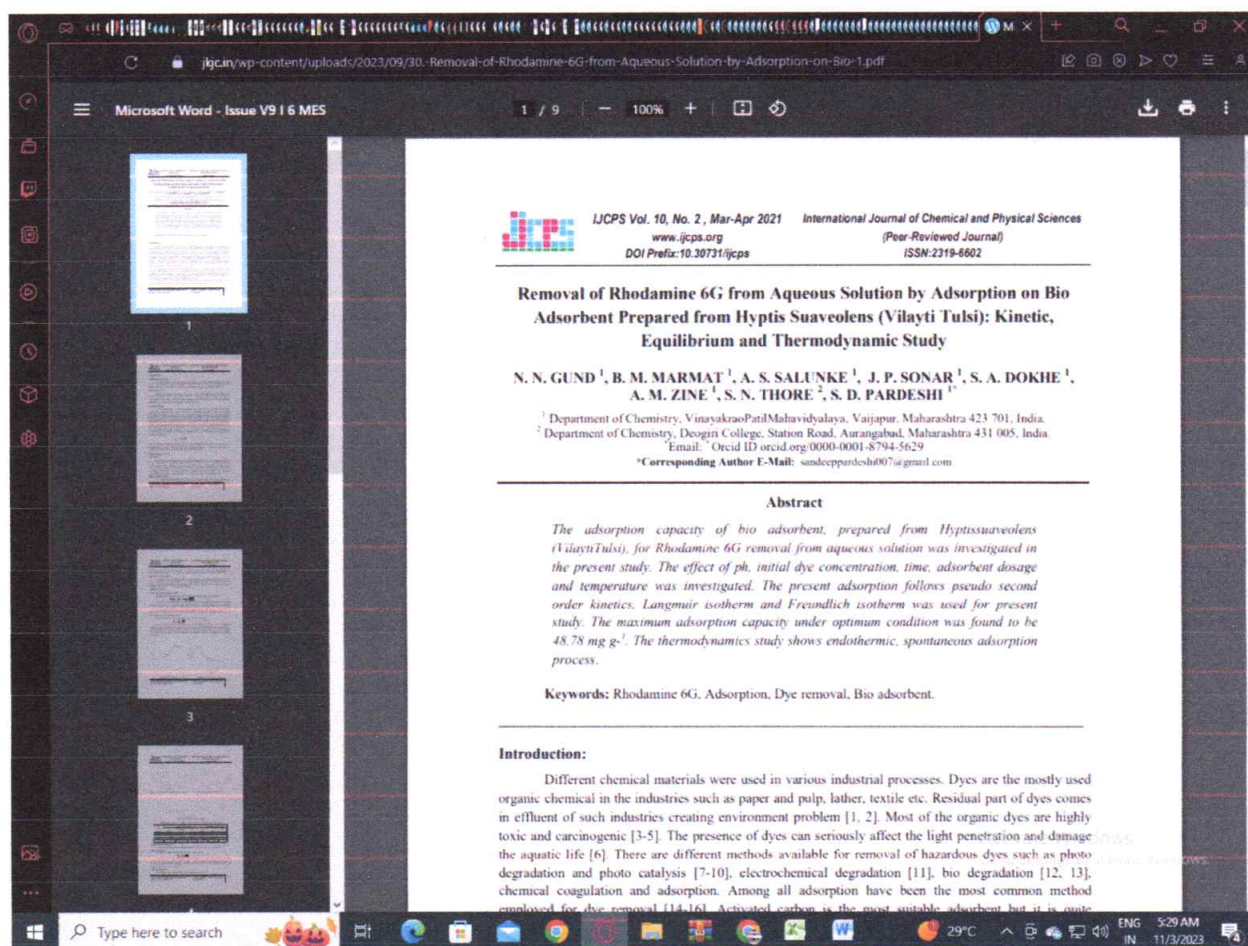


Name of Journal: International Journal of Chemical and Physical Sciences.

Name of Author: Dr. A. M. Zine in year 2020


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Mahavidyalaya, Vaijapur (Code 334)

Title of Paper: Adsorptive Removal of Amido Black From Aqueous Solution Using Economical Adsorbent: Kinetic and Isotherm Study.

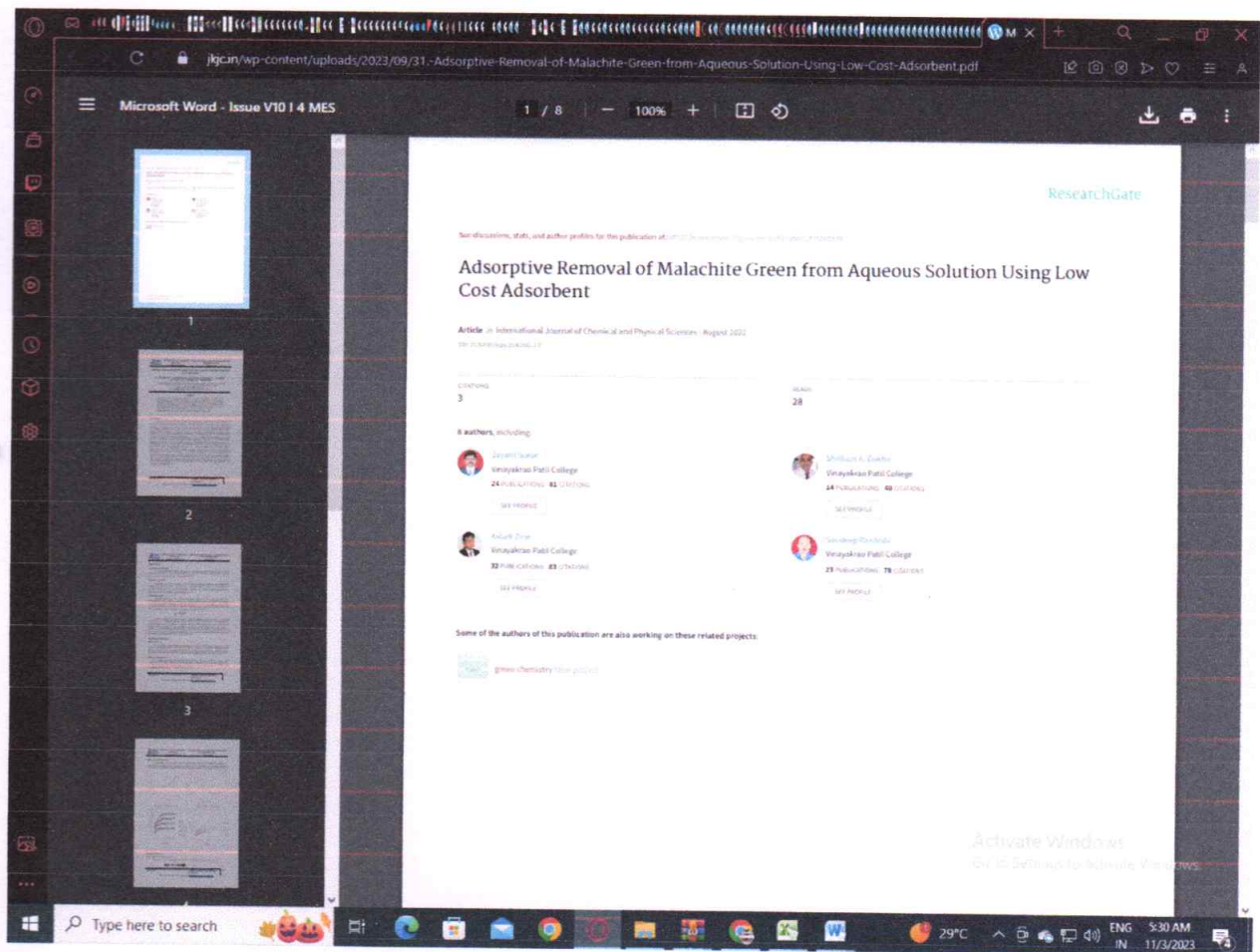


Name of Journal: International Journal of Chemical and Physical Sciences.


Principal
J.K.Jadhav Arts, Comm.& Science
Mahavidyalaya, Vajapur (Code 334

Name of Author: Dr. A. M. Zine in year 2021

Title of Paper: Removal of Rhodamine 6G from Aqueous Solution by Adsorption on Bio Adsorbent Prepared from HyptisSuaveolens (VilaytiTulsi): Kinetic, Equilibrium and Thermodynamic Study.

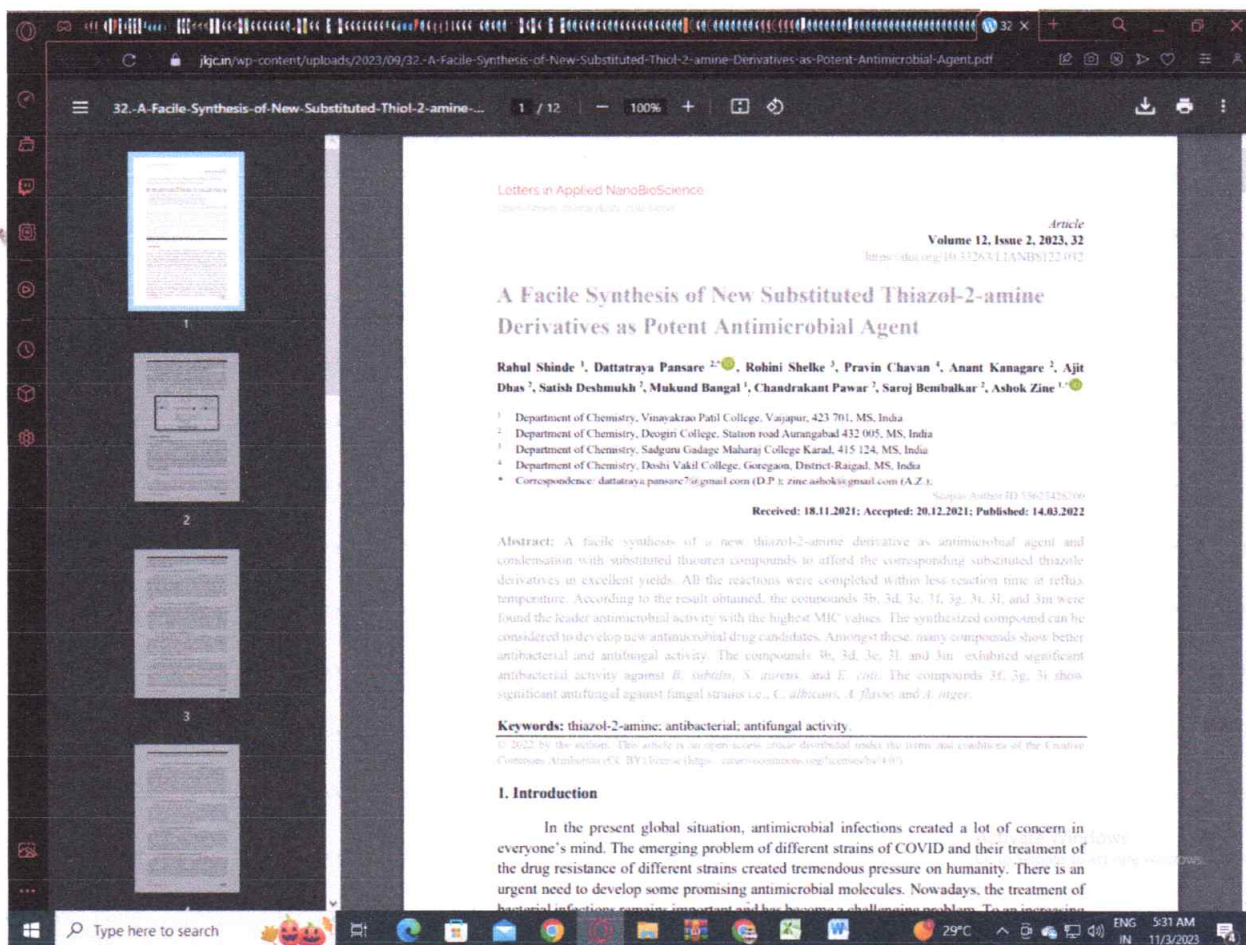


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J.K.Jadhav Arts, Comm.& Science
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Name of Journal: International Journal of Chemical and Physical Sciences.

Name of Author: Dr. A. M. Zine in year 2021

Title of Paper: Adsorptive Removal of Malachite Green from Aqueous Solution Using Low Cost Adsorbent.




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J.K. Jadhav Arts, Comm. & Science
Mahavidyalaya, Vijapur (Code 334)

Name of Journal: Letters in Applied Nano Bio Science
ISSN: 2284-6808

Name of Author: Dr. A. M. Zine in year 2023

**Title of Paper: A Facile Synthesis of New Substituted
Thiazol-2-amino Derivatives as Potent Antimicrobial
Agent.**



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Mahavidyalaya, Vaijapur (Code 334