



*'Social Transformation Through Dynamic Education'*

**Bharati Vidyapeeth's**  
**Dr. Patangrao Kadam Mahavidyalaya, Sangli**  
(Arts, Science, Commerce College)  
DST-FIST funded College (Level 0)

**Founder**

**Dr. Patangrao Kadam**  
M. A., L. L. B., Ph. D.

Affiliated to Shivaji University, Kolhapur.

Accredited with 'B<sup>++</sup>' Grade by NAAC, Bengaluru (CGPA 2.96)

**Principal**

**Dr. D. G. Kanase**  
M. Sc., Ph. D.

P. O. Box No. 74, Sangli- 416416. Phone: (0233) (O) 2535229, Tele. Fax.- 2535993  
Email:-bvpkc\_sangli@yahoo.co.in; Website: <http://dpkmsangli.bharatividyaapeeth.edu>

No.: B.V.D.P.K.M.S./<sup>by</sup>hand /2018-19

Date: 31/03/2019

To,  
**Dr. S. R. Sabale**  
**Department of Chemistry,**  
**Jaysingpur College,**  
**Jaysingpur.**

Dear Sir,

We are very much thankful to you for working as Resource person to deliver guest lectures for M.Sc. I and II year class on topics Chromatography and HPLC respectively, during academic year, 2018-19.

Expecting the same co-operation in future.

Thanking you in anticipation.

Regards,

(Dr. D. G. Kanase)

**Principal**

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Dr. Patangrao Kadam Mahavidyalaya, Sangli

॥ सिद्धिरनेकान्तात ॥

Estd. - June 1964

Anekant Education Society's

**JAYSINGPUR COLLEGE, JAYSINGPUR**

Jaysingpur 416 101 Dist. Kolhapur, Maharashtra State, India

**AFFILIATED TO SHIVAJI UNIVERSITY, KOLHAPUR**



Ref. No. AES/JCJ/

Date :- 10.02.2019

To  
**Dr. A. R. Supale**  
Department of Chemistry  
Dr. P. K. Mahavidyalaya, Sangli

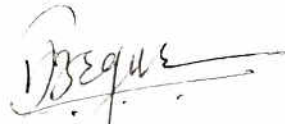
**Subject:** Regarding Invited Talk

Dear Sir,

We are thankful to you for delivering a valuable and inspiring invited talk for M.Sc. I students on **Thermodynamics** (Date: 15.08.2018) and M.Sc. II students on **Cyclic Voltametry** (Date: 15.09.2018). We are extremely grateful to you for sharing your expertise as resource person with our students and they will be benefitted much from your lecture.

Thanking You.



  
**Co-ordinator**  
M.Sc. Analytical Chemistry  
Jaysingpur College, Jaysingpur

॥ सिद्धिरनेकान्तात ॥

Estd. - June 1961

Anekant Education Society's

**JAYSINGPUR COLLEGE, JAYSINGPUR**

Jaysingpur - 416 101 Dist. Kolhapur, Maharashtra State, India

**AFFILIATED TO SHIVAJI UNIVERSITY, KOLHAPUR**



Ref. No. AES/JCJ/

Date :- 21.01.2018

To  
Dr. A. R. Supale  
Department of Chemistry  
Dr. P. K. Mahavidyalaya, Sangli

**Subject:** Regarding Invited Talk

Dear Sir,

We are thankful to you for delivering a valuable and inspiring invited talk for M.Sc.I students on **Thermodynamics** (Date: 10.08.2017) and M.Sc. II students on **Cyclic Voltametry** (Date: 30.08.2017). We are extremely grateful to you for sharing your expertise as resource person with our students and they will be benefitted much from your lecture.

Thanking You.



*[Signature]*  
**Co-ordinator**  
M.Sc. Analytical Chemistry  
Jaysingpur College, Jaysingpur





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**Second National Conference on  
Recent Trends in Pure and Applied Sciences  
(RTPAS-2020)**

**Saturday, 11<sup>th</sup> January 2020**

**Organized by**

**INTERNAL QUALITY ASSURANCE CELL**

**Souvenir**

## 10. CARAMBOLA FRUIT AND CALOTROPIS GIGANTEA LATEX MEDIATED CU NPS FOR ANTIBACTERIAL ACTIVITIES

Shubhangi Mane-Gavade<sup>1</sup>, Pravin Patil<sup>1</sup>, Amruta Koli<sup>1</sup>, Vinayak Gawade<sup>1</sup>,

Raju Tasgaonkar<sup>1</sup>, Amit Supale<sup>2</sup>, Sandip Sabale<sup>1\*</sup>

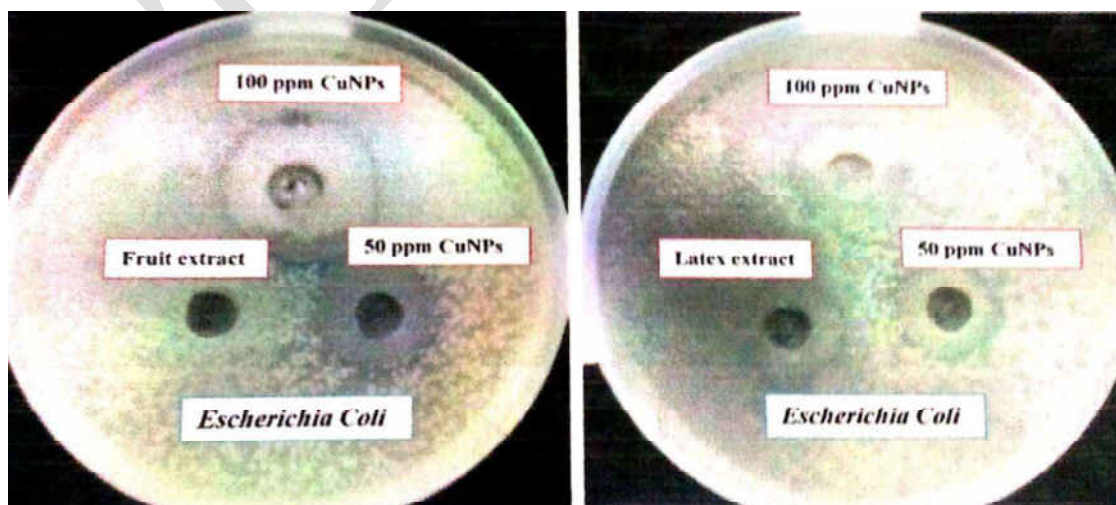
<sup>1</sup>P.G. Department of Chemistry, Jaysingpur College, Jaysingpur-416101,  
Maharashtra

<sup>2</sup> Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli-416416,  
Maharashtra

\*Email:srsabale@gmail.com

### ABSTRACT:

*Carambola* fruit extract and *Calotropis gigantea* Latex were used as mediator for the green synthesis of Cu Nanoparticles (NPs). The obtained Cu NPs were analyzed using XRD for structural properties, UV-Vis and FTIR for optical properties. The antibacterial activity was determined for *Escherichia coli* using both the obtained NPs by agar well diffusion method. *Carambola* fruit extract mediated NPs shows higher antibacterial activity as compared to the fruit extract, latex as well as Latex mediated Cu NPs. The Antibacterial activity trend was found to be *Carambola* fruit mediated Cu NPs > Latex mediated Cu NPs > *Calotropis gigantea* Latex > *Carambola* fruit extract.



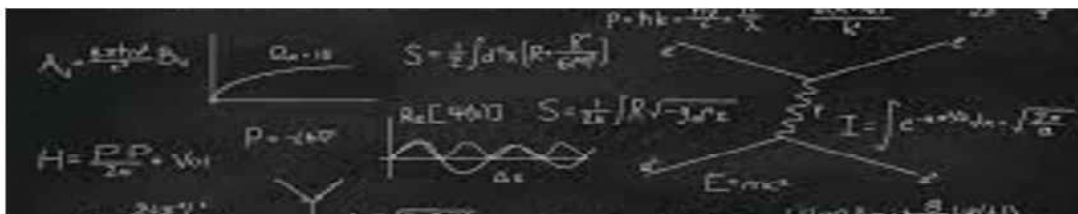


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# Souvenir

Third National Conference on  
Recent Trends in Pure and Applied Sciences  
(RTPAS-2021)

**Saturday, 13<sup>th</sup> March 2021**

**Organized by**

**INTERNAL QUALITY ASSURANCE CELL**

## SYNTHESIS OF COUMARINE DERIVATIVES CATALYZED BY NI-SUBSTITUTED HPA

Amit R. Supale<sup>1</sup> and Sandip R. Sabale<sup>2</sup>

*1 Department of Chemistry, Bharati Vidyapeeth's Dr. Patangrao Kadam Mahavidyalaya, Sangli, M.S., India, 416416*

*2 Department of Chemistry, Jaysingpur College, Jaysingpur 416101  
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### Abstract

A methodology for synthesis of coumarin derivatives by using Ni-MPA catalyst is reported. The reaction was carried out in ethanol under reflux condition. The method gave good yields of products in short reaction time compared with previous methods. This methodology offers significant improvements for the synthesis of coumarin derivatives.

**Keywords:** Heteropoly acid, Pechmann condensation, Coumarin derivatives, One pot reaction.

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