



THE AGENDA

NEWSLETTER

From the Departments of Science and Humanities
(APPLIED CHEMISTRY, APPLIED MATHEMATICS, APPLIED PHYSICS &
HUMANITIES AND SOCIAL SCIENCES)



Volume 02; Issue 5 APRIL 2023 Monthly Updated

APRIL HIGHLIGHTS



Published a paper

Dr. S. Anandhavelu, published a paper in Tissue Engineering, Parts A, Impact Factor (4).



Book Published

Dr.R.Muthucumaraswamy authored a book titled Transforms and Partial Differential Equations (Third Edition)



Published a paper

Dr.M.Sukumar published a paper in the Journal of Alloys and Compounds Impact Factor (6.3).



Event organized

Dr.N.R.Sheela, organised one day workshop on Experience SVCE 22nd April 2023



Published a paper

Ms. Sandhiya Devi has Published the paper in the Journal of Asia (TEFL) on 31 st of March 2023.



Applied Chemistry

PAPER PUBLISHED

Dr. S. Anandhavelu, Assistant Professor, Department of Applied Chemistry, published a paper entitled "Keratin-alginate Based Bioactive Patch Containing Cerium Oxide Nanoparticles For Biomimetic Wound Dressing Applications" in Tissue Engineering, Parts A, 2023 TERMIS – AMERICAS Conference & Exhibition Boston Marriott Copley Place April 11–14, 2023.



Tissue Engineering Part A

Research Advances

Co-Editors-in-Chief: Antonios G. Mikos, PhD and John P. Fisher, PhD

Reviews Co-Editor-in-Chief (Part B): Katja Schenke-Layland, MSc, PhD and Heungsoo Shin, PhD

Methods Co-Editor-in-Chief (Part C): John A. Jansen, DDS, PhD and Xiumei Wang, PhD

ISSN: 1937-3341 | Online ISSN: 1937-335X | Published Monthly in 12 Double Issues

Impact Factor: 4.080*

*2021 Journal Citation Reports™ (Clarivate, 2022)

CiteScore™: 7.4



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ABOUT US PUBLICATIONS



Advances in Tissue Engineering
30th Annual Short Course
August 9 -12, 2023
Rice University, Houston, TX

B118 - Keratin-alginate Based Bioactive Patch Containing Cerium Oxide Nanoparticles For Biomimetic Wound Dressing Applications

S. Logesh Kumar¹, M. Swathy¹, S. Anandhavelu²:

¹Department of Biomedical Engineering, KPR Institute of Engineering and Technology, Coimbatore, INDIA, ²Department of Applied Chemistry, Sri Venkateswara College of Engineering, Chennai, INDIA]

***Purpose/Objectives:** To fabricate cerium oxide impregnated bioactive patch for exuding and skin wounds. To evaluate the bioactive patches water uptake, nanoparticles release profile, biocompatibility and antibacterial activity. These bioactive patch systems are appreciable for wound dressing due to their tissue regenerative potential.

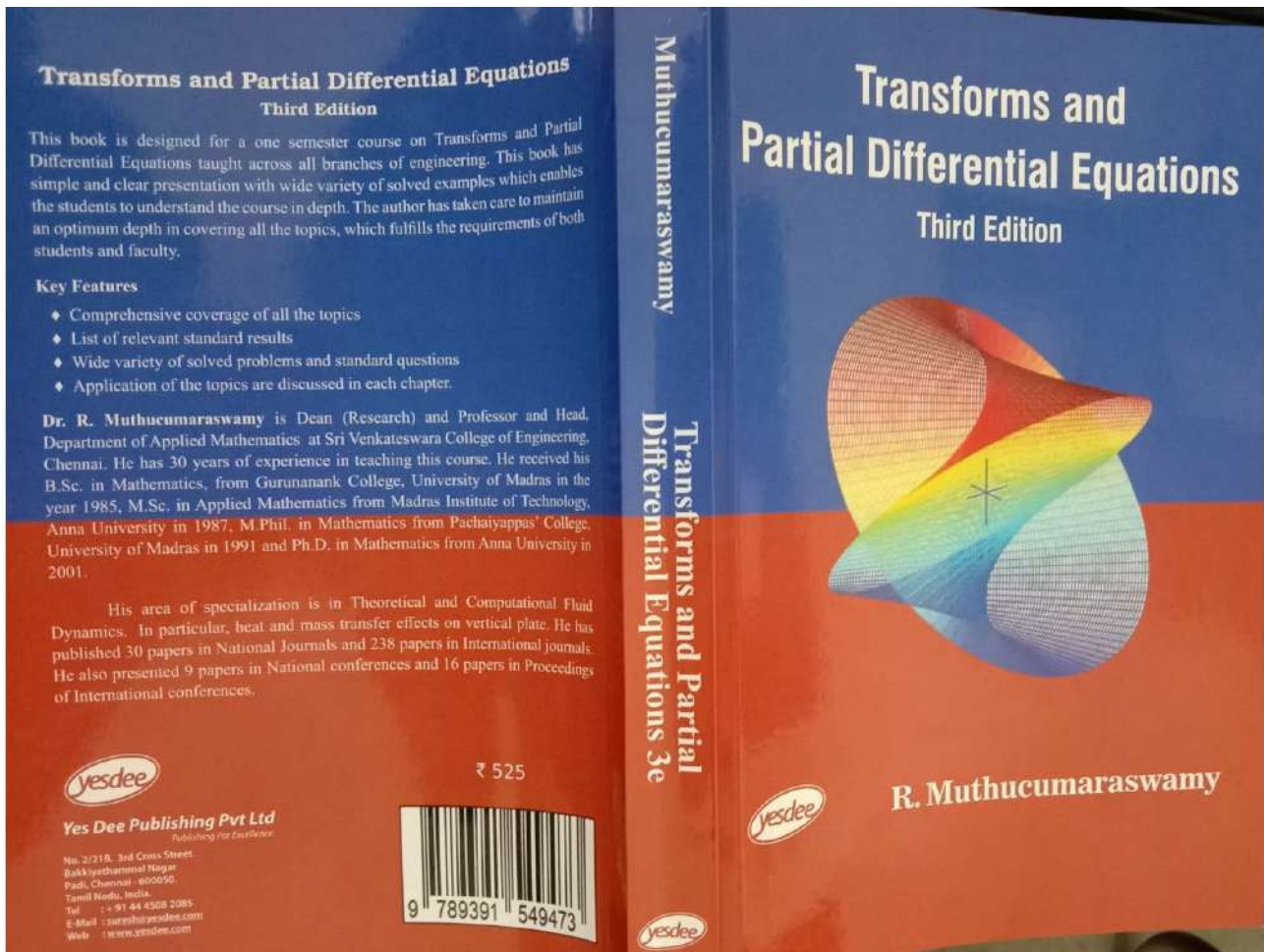
***Methodology:** Keratin-Agar (KA) and Keratin-Agar-Cerium oxide (KACeO2) with glycerol as a cross-linker was developed by a simple casting method. The intermolecular interactions were characterized by FTIR, XRD and SEM analysis. Also the mechanical and thermal properties of bioactive patch by tensile analysis, DSC and TGA were determined. The wound exudate absorbing nature and degradation profile of bioactive patch exhibits excellent swelling ability and degradation capacities.



Applied Mathematics

BOOK PUBLISHED

Dr.R.Muthucumaraswamy , Professor & Head, authored a book titled *Transforms and Partial Differential Equations* (Third Edition), Yes Dee Publications PVT Ltd, ISBN-978- 93-91549-47-3.





Applied Mathematics

GUEST LECTURE

Dr.R.Muthucumaraswamy , Professor & Head, delivered

A Seminar on “Interpolation and its Applications” at Saveetha Engineering College on 25.04.2023.



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Department of Mathematics

Seminar on

INTERPOLATION AND ITS APPLICATIONS

 25th Apr 2023 |  10:00 AM |  KALAM HALL CSE 5F



Dr. R. MUTHUCUMARASWAMY, Ph.D.
Dean (Research), Professor and Head
Department of Applied Mathematics
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur 602 117.



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Applied Mathematics

GUEST LECTURE

Dr.R.Muthucumaraswamy , Professor & Head, delivered

A Guest Lecture on “Applications of Mathematics in Engineering” at S.A.Engineering College on 28.04.2023.



S.A. ENGINEERING COLLEGE
(An Autonomous Institution Affiliated to Anna University Chennai)
Accredited by NAAC 'A' Grade & ISO 9001:2015 Certified Institution

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiatives)

NAAC
A GRADE

NBA
NATIONAL BOARD OF ACCREDITATION

ISO 9001:2015

25
ANNIVERSARY

Guest lecture on

**APPLICATIONS OF MATHEMATICS
IN ENGINEERING**

On **28/04/2023**



Dr.Muthucumaraswamy,
Dean(Research), Professor and Head,
Department of Applied Mathematics

**Sri Venkateswara college
Of Engineering**



Applied Mathematics

ARTICLES REVIEWED

Dr.R.Muthucumaraswamy , Professor & Head, reviewed the following article:



Dr.R.Muthucumaraswamy , Professor & Head, reviewed an article “Internal Flow Heat Transfer Rate for Parallel Heat Exchanger Pipes One Pass of Rice Husk to Air” for Journal of Energy Research and Reviews.

PAPER ACCEPTED

An article titled “Numerical Study of Transient MHD Flow across an Oscillating Vertical Plate with Thermal Radiation and Viscous Dissipation” by V. Rajaraman and R.Muthucumaraswamy, has been accepted for publication in International Journal of Applied Mechanics and Engineering.



WORKSHOPS/FDPS/CONFERENCES PARTICIPATED

Dr.M.Radhakrishnan & Dr.R.Umadevi, Assistant Professor, attended 5-day FDP on “Applied Statistical Methods for Research” organized by Division of Mathematics, School of Advanced Sciences during 3-7, April 2023, VIT, Chennai.





Applied Physics

FACULTY PUBLICATIONS

Dr.M.Sukumar published a paper entitled” Synthesize and characterization of copper doped nickel ferrite nanoparticles effect on magnetic properties and visible light catalysis for rhodamine dye degradation mechanism” in the Journal of Alloys and Compounds 953 (2023) 169902

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Supports open access

9.6 CiteScore | 6.371 Impact Factor



Journal of Alloys and Compounds

Volume 953, 25 August 2023, 169902



Synthesize and characterization of copper doped nickel ferrite nanoparticles effect on magnetic properties and visible light catalysis for rhodamine dye degradation mechanism

M. Sukumar^a, Jothi Ramalingam Rajabathar^b  , Hamad AL-Lohedan^b, S. Suresh^c,
Chandra Sekhar Dash^d, M. Sundararajan^e  , Partha Sarathi Subudhi^f  ,
Selvaraj Arokiyaraj^h, Ekrem Yanmaz^g, S. Yuvarajⁱ  , R.S. Rimal Isaac^j

Show more 



Applied Physics

WORKSHOPS/FDPS/CONFERENCES PARTICIPATED

01

Ms. G.Bharathy, Assistant Professor, Dept. Of Applied Physics Participated in Astronomy workshop, & Meet the IAU Astronomers & organised on 22nd April 2023 by the Department of Applied Sciences, Tezpur University.

02

Ms. G.Bharathy, AP, Dept. Of Applied Physics Participated in Workshop on Google Workspace during April 24-28, 2023 organised by Department of Information Technology, SVCE.

EVENT ORGANIZED

Dr.N.R.Sheela, Assistant Professor, Department of Applied Physics, organised one day workshop on Experience SVCE 22 nd April 2023



Humanities and Social Sciences

WORKSHOPS/FDPS/CONFERENCES PARTICIPATED

01

Dr.Murugavel.T and Ms.Anichamalar have attended a six day “National Level Faculty Development Program on Universal Human Values II” from 24 th April 2023 to 29 th April 2023 organized by AICTE.

02

Ms.Anichamalar and Dr.Bhargavi.S have presented a paper titled “ Application of Natural Language ToolKit to promote Autonomous Learning” at the Two Day International conference on Innovations in Science and Humanities” (ICISH '23) conducted by Saveetha Engineering College on 19 th April 2023 and 20 th April 2023.



Humanities and Social Sciences

FACULTY PUBLICATIONS

Ms. Sandhiya Devi has Published the paper titled “Reading while Listening at the Tertiary Level: Perceptions and Implications” in the Journal of Asia (TEFL) on 31 st of March 2023.

THE JOURNAL OF ASIA TEFL
Vol. 20, No. 1, Spring, 2023, 147-155
<http://dx.doi.org/10.18823/asiatefl.2023.20.1.11.147>



The Journal of Asia TEFL

<http://journal.asiatefl.org/>

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Reading-while-Listening at the Tertiary Level: Perceptions and Implications

Divya John

Sri Sivasubramaniya Nadar College of Engineering

G Sandhiya Devi

Sri Venkateswara College of Engineering

Introduction

Tertiary students usually face several challenges in reading comprehension because the



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FROM THE DEPARTMENTS OF SCIENCE AND HUMANITIES

(APPLIED CHEMISTRY, APPLIED MATHEMATICS, APPLIED PHYSICS & HUMANITIES AND SOCIAL SCIENCES)

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PROFESSOR & HEAD
DEPARTMENT OF APPLIED CHEMISTRY

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DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

SRI VENKATESWARA COLLEGE OF ENGINEERING
CHENNAI - BENGALURU HIGHWAYS
SRIPERUMBUDUR (OFF CHENNAI) TK. - 602 117
TAMIL NADU, INDIA

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