

THE AGENDA

NEWSLETTER

FROM THE DEPARTMENTS OF SCIENCE AND HUMANITIES

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

National Science Day is celebrated in India on February 28 each year to mark the discovery of the Raman effect by Indian physicist Sir C. V. Raman on 28 February 1928.



The phenomenon is named for Indian physicist Sir Chandrasekhara Venkata Raman, who first published observations of the effect in 1928.

(Austrian physicist Adolf Smekal theoretically described the effect in 1923. It was first observed just one week before Raman by Russian physicists Leonid Mandelstam and Grigory Landsberg; however, they did not publish their results until months after Raman)

SRI VENKATESWARA COLLEGE OF ENGINEERING
CHENNAI - BENGALURU HIGHWAYS
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TAMIL NADU, INDIA

VOLUME 02; ISSUE 3 FEBRUARY 2023 MONTHLY UPDATED

February's Highlights

1

LECTURE PRESENTED

Dr.B.Thilaka, Professor, gave a seminar on "Mathematics in Machine Learning"

2

EVENTS ORGANIZED

Dr.N.R.Sheela Department of Applied Physics organised Sparring for Science & National Science Day events.

3

PUBLICATIONS

Dr. M. Sukumar, Assistant Professor, Department of Applied Physics, published in "Dalton Transactions Journal – The Royal Society of Chemistry" (Impact factor: 4.569)

4

PUBLICATIONS

Dr. S. Anandhavelu, Assistant Professor, Department of Applied Chemistry, "Inorganic Chemistry Communications" (Impact factor: 3.428)



Applied Chemistry

WORKSHOPS/FDPS/CONFERENCES PARTICIPATED:

Dr. S. Anandhavelu, Assistant Professor, Department of Applied Chemistry, entitled "Detailed investigations of rare earth (Yb, Er and Pr) based inorganic metal-ion complexes for antibacterial and anticancer applications" was published in "Inorganic Chemistry Communications Volume 150, April 2023, 110510.

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3.9 CiteScore | 3.428 Impact Factor

Inorganic Chemistry Communications
Volume 150, April 2023, 110510

ELSEVIER

Short communication

Detailed investigations of rare earth (Yb, Er and Pr) based inorganic metal-ion complexes for antibacterial and anticancer applications

[Kavitha Andiappan](#)^{a, b}, [Anandhavelu Sanmugam](#)^c, [Easwaramoorthy Deivanayagam](#)^b , [K. Karuppasamy](#)^d, [Hyun-Seok Kim](#)^d , [Dhanasekaran Vikraman](#)^d

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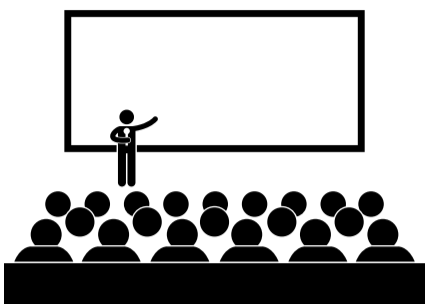
Applied Chemistry

WORKSHOPS/FDPS/CONFERENCES PARTICIPATED:

Dr. Stanly S., Associate Professor and Assistant HoD, Department of Applied Chemistry, participated in the National Webinar on "Atom by Atom Engineering in Cluster Science" held on February 6, 2023.





Applied Mathematics



EXPERT LECTURE


Dr.B.Thilaka, Professor, gave a seminar on “Mathematics in Machine Learning”, organized by Department of Mathematics, Ethiraj College for Women, Chennai on 6 th February, 2023.

ETHIRAJ COLLEGE FOR WOMEN
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DEPARTMENT OF MATHEMATICS
cordially invites you to the

SEMINAR
on
**Mathematics in
Machine Learning**
by



Dr. B. Thilaka
Proud Alumna of Ethiraj College
Professor
Department of Applied Mathematics
Sri Venkateswara College of Engineering
Sriperumbudur, Chennai.

VENUE:
Library Conference
Hall

DATE AND TIME:
6th February, 2023
1:00 PM



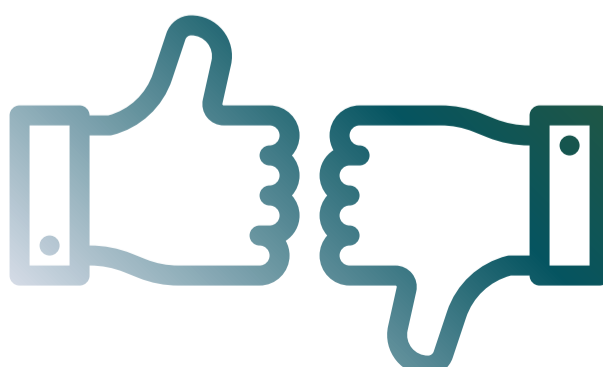
Applied Mathematics

ARTICLES REVIEWED



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

1. "A Generation Method of new power system APT attack Graph based on DQN" for the journal Recent advances in Electrical Engineering, February 2023.
2. "Approximation Algorithms for α -bisubmodular Function Maximization subject to matroid constraint, Journal of Advances in Mathematics and Computer Science, February 2023.





Applied Mathematics

WORKSHOPS/FDPS/CONFERENCES PARTICIPATED:

01

Dr.R.Umadevi, Assistant Professor, participated in a 5-Day International online Workshop on Applicable Mathematics for Science and Engineering – Recent Advances (AMSE – 2023), organized by the Department of Mathematics, School of Advanced Sciences, VIT-AP University, Andhra Pradesh, India during 16 – 20 February, 2023.

02

Ms.J.Komathi, Part-Time Research Scholar, registered under the guidance of Dr.D.Meiyappan, Assistant Professor, has participated and presented a paper titled “Face Magic Labelling on Intuitionistic Space” in a two day International Conference on Applied Mathematics and Computing (ICAMC 2023), organized by Postgraduate Research Department of Mathematics, D.G.Vaishnav College, Chennai held during 27 & 28 February, 2023.



Applied Physics

PUBLICATION

Dr. M. Sukumar, Assistant Professor, Department of Applied Physics, entitled & Gd³⁺-substituted BiFeO₃ perovskite nanoparticles: facile synthesis, characterization, and applications in heterogeneous catalysis was published in “Dalton Transactions Journal – The Royal Society of Chemistry” Feb-2023, Vol. 52 – PP- 2735-2748.

Issue 9, 2023

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From the journal:
Dalton Transactions

Gd³⁺-substituted BiFeO₃ perovskite nanoparticles: facile synthesis, characterization, and applications in heterogeneous catalysis

[Check for updates](#)

[N. Subhashini](#)^a, [S. Revathi](#)^{*a}, [Mohd Ubaidullah](#)^{ib}, ^{*b} [Abdullah M. Al-Enizi](#)^{ib}, ^d [S. Muthulakshmi](#)^a, [D. Thiripurasundari](#)^a, [Shoyebmohamad F. Shaikh](#)^b, [Ayman Nafady](#)^d, [Meera Moydeen Abdulhameed](#)^d, [Nouf B. Alanzi](#)^b, [Rayana Ibrahim Alkhalifah](#)^b, [Chandra Sekhar Dash](#)^c, [M. Sundararajan](#)^{*d} and [M. Sukumar](#)^{ib} ^{*e}

[Author affiliations](#)

Abstract

We present the combustion-based synthesis of BiFeO₃ (BFO) and Gd:BiFeO₃ perovskite nanoparticles. XRD analysis demonstrates that the undoped BFO ($x=0$) perovskite sample shows a single perovskite phase with a rhombohedral structure. However, increase in the Gd³⁺ content from $x=0.05$ and 0.15 to 0.25 led to the occurrence of a structural phase transformation from rhombohedral (BiFeO₃) to orthorhombic (Bi₂Fe₄O₉). With an increase in the Gd-dopant the average crystallite size of rhombohedral structures increased from 16 to 23 nm. The perovskite samples were

About Dalton Transactions

The international journal for high quality, original research in inorganic and organometallic chemistry

Editorial Board Chair: Russell Morris

Impact factor: 4.569

Time to first decision (peer reviewed only): 24 days

Indexed in MEDLINE



Applied Physics

EVENT ORGANIZED

Dr.N.R.Sheela Department of Applied Physics organised Sparring for Science Event organised on 22 nd February 2023 for our College Students





Applied Physics

EVENT ORGANIZED

Dr.N.R.Sheela, Assistant Professor Department of Applied Physics,organised Guest Lecture on National Science Day 28 th February 2023 on “Science in our Day-To-Day life”-Guest Speaker Dr.K.Pitchandi Professor Department of Mechanical Engineering, Controller of Examinations, SVCE





Applied Physics

WORKSHOPS/FDPS/CONFERENCES PARTICIPATED

Ms. G.Bharathy, AP, Dept. Of Applied Physics Participated in “Workshop on Intellectual Property Rights (IPR) & Patents and Design filing conducted by Institution Innovation Council (IIC-SVCE- KAPILA SCHEME) of Sri Venkateswara College of Engineering in association with Rajiv Gandhi National Institute of Intellectual Property Management (RGNIPM) Government of India, Nagpur on 30th January 2023.



Humanities and Social Sciences

WORKSHOPS/FDPS/CONFERENCES PARTICIPATED

01

Ms.Anichamalar, Mr.Shrihari.S, Mr.Bharathikumar.S, Dr.Iyuswariya Lakshmi and Dr.Bhargavi.S have attended a five day “International Faculty Development Program on Pedagogical Excellence in ELT” from 13 th February 2023 to 17 th February 2023 organized by Kumaraguru College of Liberal Arts and Science.

02

Ms.Anichamalar, Mr.Shrihari.S, Mr.Bharathikumar.S, Dr.Iyuswariya Lakshmi, Dr.Bhargavi.S, Ms.Sandhiya Devi.G and Ms.Dhureshavar.K have attended a one week “International Faculty Development Program on Teaching English Language and Literature for Z-Generation Learners” from 20 th February 2023 to 25 th February 2023 organized by Kongu Arts and Science College, Erode.

03

Dr.Bhargavi.S has attended a webinar titled “Factors affecting Reading and Writing Factors affecting Reading and Writing” on 26 th February 2023 organized by Elt@I Association.



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