



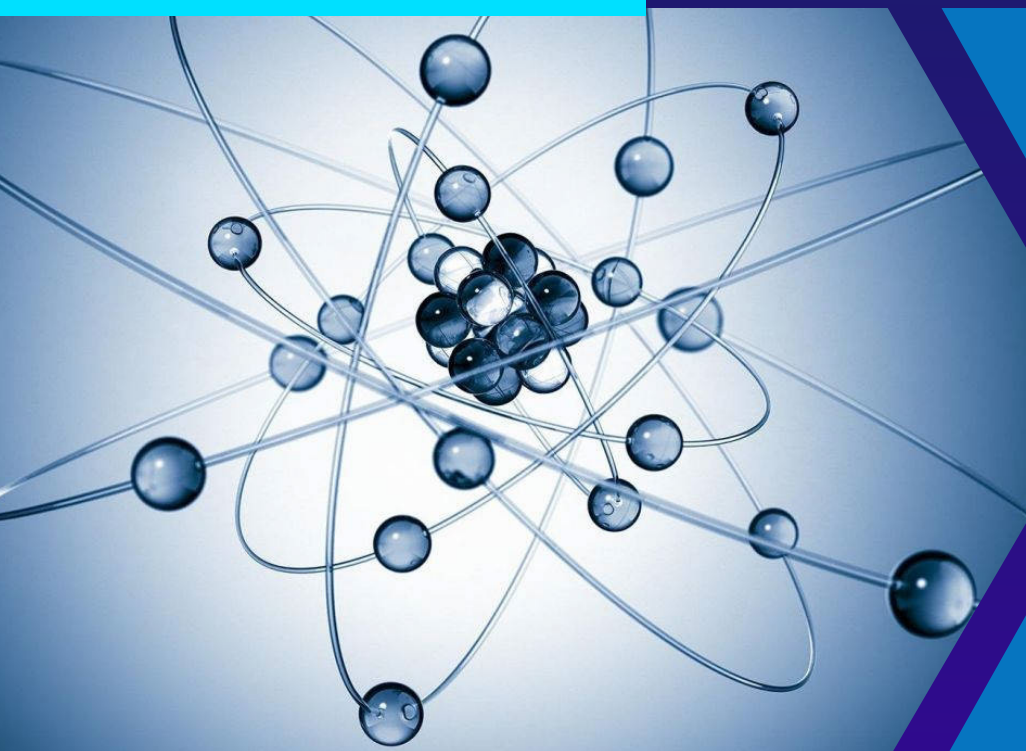
**MATERIALS SCIENCE
CONFERENCE- 2024**

Scientific Program

MATERIALS SCIENCE CONFERENCE

GLOBAL EDITION

Theme: Materials Recycling and Sustainability



April 08-09, 2024

**Double Tree by Hilton Hotel Fort Lee
George Washington Bridge at Fort Lee, New Jersey, USA**



Materials Science Conference-2024

Website: <https://materialsscience-conference.com> | Email: materialsscience@meetings.llc

DAY-1 April 8, 2024 @ Bergen and Bluff Point

08:30-09:00 Onsite Registrations

09:00-09:30 Welcome Message

KEYNOTE FORUM

09:30-10:15

Revelations in Futuristic Materials: Implantable Sensors, AI, Pico technology, and More

Thomas J. Webster, Hebei University of Technology, USA

10:15-11:00

Nanocomposite with Dual Functionality in Simultaneous Removal of Heavy Metals and Dyes from Wastewater

Maria Visa and Visa Ion, Transilvania University of Brasov, Romania

Break (11:00-11:30)

Chair: Thomas J Webster, Hebei University of Technology, USA

Co-chair: Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

ORAL PRESENTATIONS

11:30-12:00

Personalized and Precision Medicine (PPM) as a Unique Healthcare Model to Be Re-Armed via Biodesign-driven Biotech: Engineering Biomaterials of the Next Step Generation

Sergey Suchkov, Russian University of Medicine, Russia

12:00-12:30

Sustainable And Economic Cfrp Hangers In Network Arch Bridges

Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

12:30-13:00

Advancement Of Sustainable Technologies For The Chemical Industries: Applications And Implications Of Emerging Green Technology For Value-Added Materials

Anshu Dandia, University of Rajasthan, India

13:00-13:30

A Theoretical Framework of the sensitivity of some nanomaterials to Nerve Agent Tabun

Saeid Jamehbozorgi, Islamic Azad University, Iran

Lunch Break (13:30-14:30) @Abbot and Burdett

14:30-15:00

Stress Relaxation and Thermomechanical Cycle of Poly(lactid) Acid/Thermoplastic Polyurethane Blends

Sanboh Lee, National Tsing Hua University, Taiwan

15:00-15:30

Antibody-Proteases as a Generation of Unique Biomarkers, Potential Targets and Translational Tools towards Nanodesign-driven Biotech, Translational Applications and Personalized and Precision Medical Practice

Sergey Suchkov, Russian University of Medicine, Russia

YOUNG RESEARCH FORUM

15:30-16:00

Developing Nickel Phosphide-Based Nanomaterial As An Anode Electro-Catalyst For The Energy And Environmental Remediation Application

Kindnew Demssie, National Taiwan University of Science and Technology, Taiwan

16:00-16:30

Exploring The Prospects Of Nano-Cementitious Materials For Advancements In Construction Applications

Kwabena Boakye, Coventry University, UK

Break and Poster Presentations (16:30-17:00)

POSTER PRESENTATIONS

- POSTER -01** | **Halloysite Nanotube Coating For Functional Cotton Fibers: Antibacterial, Blood Clogging And Flame Retardant**
Yuri Lvov, Louisiana Tech University, USA
- POSTER -02** | **Tetrahydrofuran-Based Weakly Solvating Electrolyte Enables High-Voltage Lithium Metal Batteries with Enhanced Interfacial Stability**
Aynew Meniber Mihiretu, National Taiwan University of Science and Technology, Taiwan
- POSTER -03** | **Novel Vanadium-Nanocarbon-Based Cathode Materials For High-Performance Aqueous Zinc-Ion Batteries**
Saf Mendez, University College London, UK
- POSTER -04** | **Investigating Thiophene-Derived Polymers With Linear And Branch Side Chains For Enhanced Organic Field-Effect Transistor Performance**
Liyew Yizengaw, National Taiwan University of Science and Technology, Taiwan

YOUNG RESEARCH FORUM

- 17:00-17:30** | **Additive Materials With Process Formations For Built Environment In Ghg Emissions Mitigation**
Oluwole Joseph Oladunni, Durban University of Technology, South Africa
- 17:30-18:00** | **Multi-scale Modeling and Simulation of High-Contrast Composite Materials : Second-Order Gradient Theory**
Alioune Nacro, University of Caen, France
- 18:00-18:30** | **Biosynthesis And Characterization Of Zinc Oxide Nanoparticles Using Neem (Azadirachta Indica) Leaf Extract And Investigation Of Its Antibacterial Activities**
Elmineh Tsegahun Gedif, National Taiwan University of Science and Technology, Taiwan

Panel Discussion

DAY-2 April 9, 2024 @ Virtual

KEYNOTE FORUM

- 08:30-09:00** | **Use of Iron Nanomaterials for the Treatment of Emergent Contaminants in Water**
Marta I. Litter, University of General San Martin, Argentina
- 09:00-09:30** | **Enabling Sustainable Devices with Rationally Designed Materials**
Will Skene, University of Montreal, Canada
- 09:30-10:00** | **An Intelligent Cell Patterning Technique**
Roya Dastjerdi, Yazd University, Iran

Break (10:00-10:30)

ORAL PRESENTATIONS

- 10:30-10:50** | **Decolourization of Rhodamine B Dye by Adsorption on Nanomuscovite**
Rashed M Nageeb, Aswan University, Egypt
- 10:50-11:10** | **Recycling of Heavy Oil Fly Ash Through Recovery of Vanadium And Nickel**
Ashraf Bakkar, Um Al-Qura University, Saudi Arabia
- 11:10-11:30** | **Modified Biochar By Fabricating Different Kinds of Agricultural Waste For Wastewater Treatment And Energy Application**
Jih-Hsing (Richard) Chang, Chaoyang University of Technology, Taiwan
- 11:30-11:50** | **Multi-Equation Bifurcation Analysis of Membrane MEMs Device**
Satish Inamdar, Vishwakarma Institute of Technology, India
- 11:50-12:10** | **New Liquid Crystal Devices based on Nanosize Photoaligned Azodye Layers**
Vladimir G. Chigrinov, Hong Kong University of Science and Technology, Hong Kong

12:10-12:30 **Preparation and Evaluation of Fish Scale Collagen Protein as Bioadhesive**
Md Nazrul Islam and Sumaya Haq Mim, Khulna University, Bangladesh

12:30-12:50 **D0-d half-Heusler Alloys as a Class of Advanced Topological Materials**
Saeid Davatolhagh, Shiraz University, Iran

Break (12:50-13:50)

13:50-14:10 **Poly(3-Hexylthiophene)-MoS₂ Organic and Inorganic Hybrid Material for High Performance Self-Powered Photodetectors**
Singh Arun Kumar, Guru Ghasidas Vishwavidyalaya, India

14:10-14:30 **Magnetic Properties And Hysteresis Behavior of a Mixed Spin-3/2 And Spin-3 Ising Ferrimagnetic System in a Graphene Monolayer**
Tawfik Mouhrach, Chouaib Doukkali University, Morocco

14:30-14:50 **Improving the Fatigue Design of Mechanical Systems such as Refrigerator**
Seongwoo Woo, Ethiopian Technical University, Ethiopia

14:50-15:10 **Shape Reversibility and Crystallographic Transformations in Shape Memory Alloys**
Osman Adiguzel, Firat University, Turkey

15:10-15:30 **Preparation, Characterisation and Application of Biodegradable Coarse Wool-Poly (Lactic Acid) Sandwich Composite**
Seiko Jose, Mahatma Gandhi University, India

15:30-15:50 **Treatment With Mixed Radiation (N/Y): A New Paradigm for the Development of Innovative Polymers**
Mahmoud Daoudi, The National Center for Nuclear Sciences and Technologies, Tunisia

15:50-16:10 **Choice of Efficient Polymer in Transdermal Drug Delivery System**
Niharika Lal, Metro College of Health Sciences and Research, India

16:10-16:30 **Nanogranular Strontium Ferromolybdate/Strontium Molybdate Ceramics - A Magnetic Material Possessing a Natural Core-Shell Structure**
Gunnar Suchaneck, Solid-State Electronics Laboratory, Germany

Break (16:30-17:00)

17:00-17:20 **The Synergistic Effect of Using Bacteriophages and Chitosan Nanoparticles against Pathogenic Bacteria as a Novel Therapeutic Approach**
Aghapy Yermans Yakoup, Zewail City for Science, Egypt

17:20-17:40 **Emerging Mri Contrast Agents Based on Metal-Dressed Polymer Nanodots**
Paulo Cesar Morais, University of Brasilia, Brazil

17:40-18:00 **High-Energy Ball Milling As A Powerful Tool for The Synthesis of Materials With Catalytic Applications**
Matias Gaston Rinaudo, National University of San Luis, Argentina

18:00-18:20 **Engineering of Stable and Improved Electrochemical Activities of Redox dominating Charge Storage Electrode Materials**
Girish Sambhaji Gund, University of Mumbai, India

18:20-18:40 **Chitosan and its Applications in Oral Surgery**
Balamurugan.R, Cosmo Foundation Hospital, India

18:40-19:00 **Asymmetrical Stress Controlled Cyclic Loading of Advanced Structural Materials**
Prerna Mishra, MKSSS Cummins College of Engineering for Women, India

19:00-19:20 **Anionic Influences on Luminescent Properties in Rare-Earth Activated Inorganic Host Materials**
Leelakrishna Reddy, University of Johannesburg, South Africa

Panel Discussion

PROGRAM AT A GLANCE



**MATERIALS SCIENCE
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Day-1 (April 08, 2024)

08:30
09:00 Registrations

11:00
11:30 Break

14:30
15:30 Oral Presentations
Continues

17:00
18:30 Young Research
Forum Continues

09:00
09:30 Opening Ceremony
& Introduction

11:30
13:30 Oral Presentations

13:30-14:30 Lunch

15:30
16:30 Young Research
Forum

Panel Discussion

09:30
11:00 Plenary & Keynote
Forum

16:30
17:00 Poster Presentations
and Break

Closing and Award Ceremony

Day -2 (April 9, 2024)

08:30
10:00 Keynote Forum

13:50
16:30 Oral Presentations
Continues

Panel Discussion

10:00
10:30 Break

12:50-13:50 Lunch

16:30
17:00 Break

10:30
12:50 Oral Presentations

17:00
19:20 Oral Presentations
Continues

Venue Address:

Double Tree by Hilton Hotel Fort Lee
George Washington Bridge at Fort Lee,
New Jersey, USA

Moderator: Kwabena Boakye, Coventry University, UK

Day 1

Session Chair: Thomas J webster
Session Co-Chair: Urs Meier

Hall Name: Bergen and Bluff point

Lunch: Abbot and Burdett

Organizing Committee:

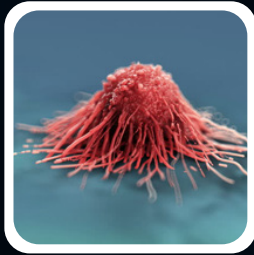
Thomas J.Webster
Maria visa
Marta I.Litter

Day 2

Session Chair: Marta I.Litter
Session Co-Chair: Will skene

Upcoming Conferences

2024-25



Cancer Research Summit

August 15-16, 2024
Boston, USA



Dental Science Conference

August 15-16, 2024
Boston, USA



Neural Science Conference

October 28-29, 2024
Boston, USA



Nursing Career and Care Conference

February 10-11, 2025
Orlando, Florida, USA



Public Health Care Conference

February 10-11, 2025
Orlando, Florida



Vaccine Summit 2025

February 13-14, 2025
Boston, USA



Cardiology and Cardiovascular Health Conference

February 13-14, 2025
Boston, USA



Food and Nutrition Summit

April 28-29, 2025
Rome, Italy



Gynecology and Womens Health Conference

April 28-29, 2025
Rome, Italy



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Contact Us



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