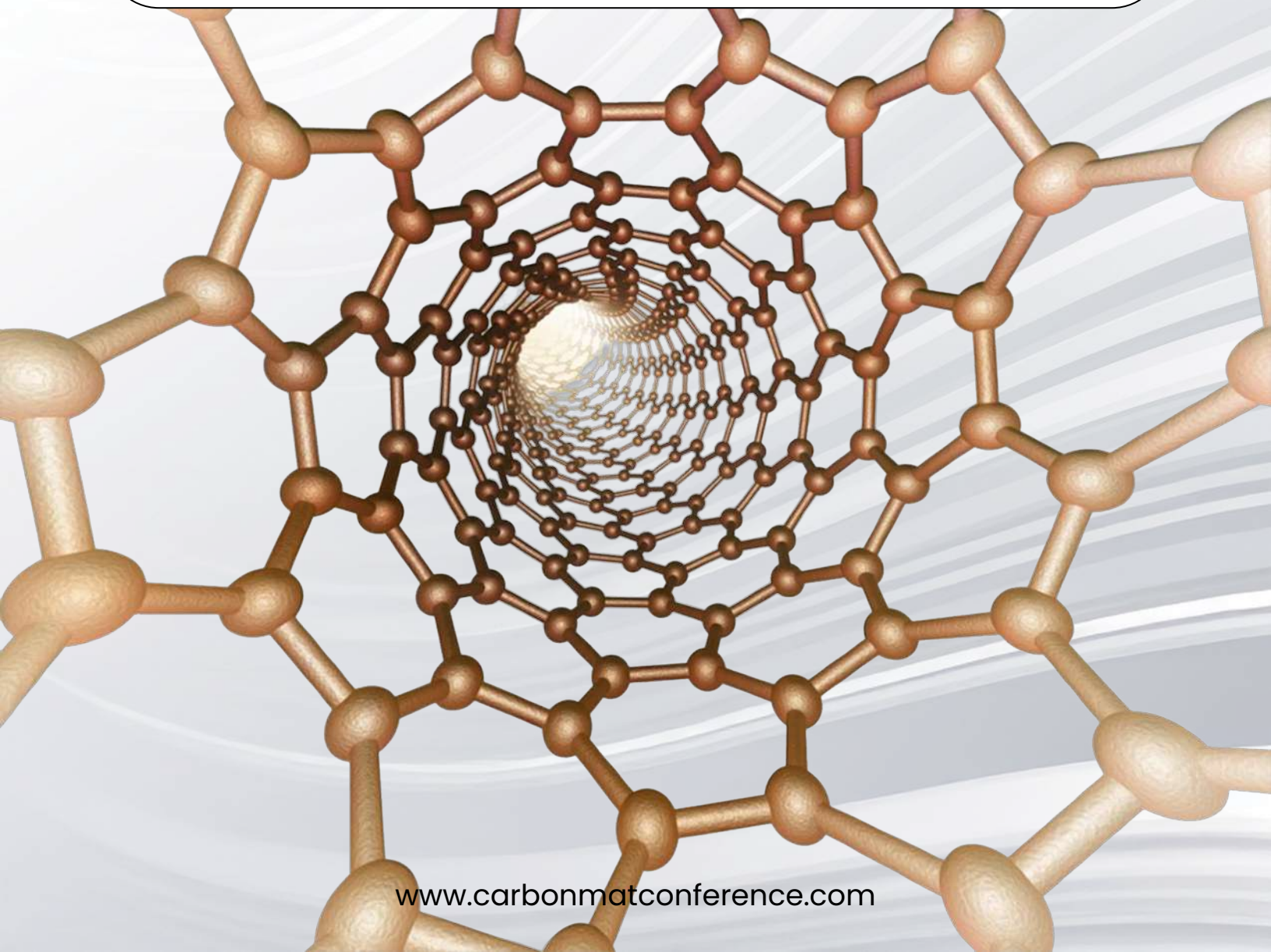
PRISM

Mystery of 2025 CARBON

# INTERNATIONAL CONFERENCE ON CARBON MATERIALS

**NOVEMBER 26-28, 2025 | DUBAI, UAE**



www.carbonmatconference.com

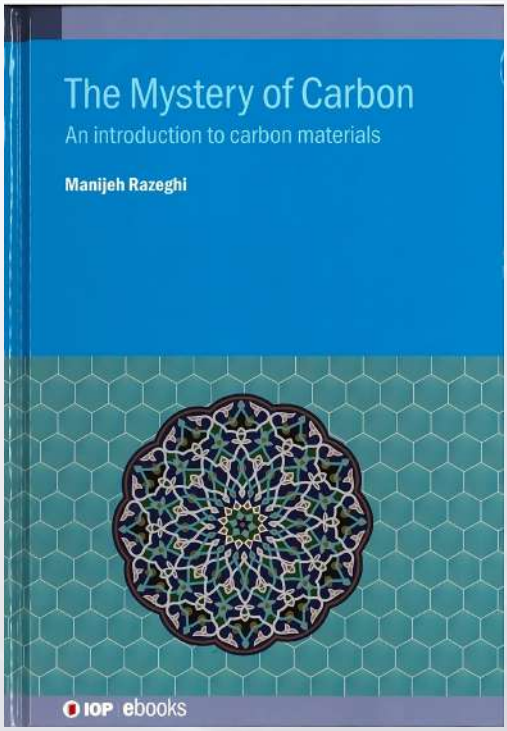
## WELCOME TO MYSTERY OF CARBON 2025

The Mystery of Carbon: An Introduction to the Carbon Atom.
At this conference, you will embark on a journey into the fundamental building blocks of life and matter itself. Carbon, with its unique ability to form countless compounds, lies at the heart of chemistry, biology, and materials science. As we gather together, we stand on the precipice of discovery, poised to unravel the secrets of this versatile atom that plays such a crucial role in the world around us. From the diamonds that sparkle under pressure to the organic molecules that sustain life, carbon's versatility and complexity continue to inspire scientists and researchers worldwide. Throughout this conference, you will delve into the intricacies of carbon's atomic structure, its bonds, its role in the universe, and its impact on our daily lives. You will explore its forms, from the simplest molecule to the most complex macromolecule, and its significance in fields ranging from nanotechnology to medicine. We invite you all to join us in this exploration, engage in discussions, share insights, and foster collaborations that will deepen our understanding of carbon and its mysteries. Together, let us illuminate the path forward as we unravel the fascinating story of the carbon atom.

## CONFERENCE CHAIR

### MANIJEH RAZEGHI

Walter P. Murphy Professor of Electrical and Computer Engineering, Director, Center for Quantum Devices, McCormick School of Engineering, Northwestern University, USA




## FEATURED BOOK: THE MYSTERY OF CARBON: AN INTRODUCTION TO CARBON MATERIALS

**AUTHOR: MANIJEH RAZEGHI | PUBLISHER: IOP PUBLISHING**

We are delighted to spotlight Prof. Manijeh Razeghi's **The Mystery of Carbon** at the Mystery of Carbon Conference 2025. This accessible volume introduces the fascinating world of carbon materials—from graphite and diamond to graphene, nanotubes, and fullerenes.
Prof. Razeghi explores their structures, properties, and groundbreaking applications in electronics, energy storage, and advanced materials.
A valuable resource for students, researchers, and professionals, the book highlights carbon's unique role in shaping modern science and technology.

# PLENARY SPEAKERS

## HUANJUN CHEN

Professor
Sun Yat-sen University
China

## MARCO RAHM

Professor
Head of Electrical and Computer Engineering
University of Kaiserslautern
Germany

## JAGDISH NARAYAN

The John Fan Family
Distinguished Chair Professor
North Carolina State University
USA

## YONG-HOON CHO

Professor
KAIST, South Korea

## REGISTRATION RATES

| Types of Registration | Early Bird Registration Ends on August 29, 2025 | Regular Registration Ends on September 15, 2025 | Final Registration Ends on November 26, 2025 |
|---|---|---|---|
| **Academic** | **USD 750** | **USD 790** | **USD 890** |
| **Business** | **USD 890** | **USD 990** | **USD 1090** |
| **Student** | **USD 390** | **USD 490** | **USD 590** |

## KEY TOPICS OF CARBON MATERIALS CONFERENCE

1. Computational Modeling of Carbon Materials
2. Physical and Chemical Modification of Carbon Materials
3. Carbon Nanotubes, Fullerenes and Polyacenes
4. Carbon Foams, Structural Graphite and Graphene
5. Carbon-Based Polymers, Fibers and Composites
6. Quantum Technology Based on Carbon Materials
7. Production of Advanced Carbon Materials from Bio-Waste
8. Two-Dimensional Metal Dichalcogenides and their Electronic Structures
9. Energy Harvesting and Storage Based on Diamond and Carbon Materials
10. Characteristics of Carbon Materials under Temperature, Pressure and Magnetic Field
11. Carbon and Diamond Devices for Power Electronics, Optoelectronics and Sensors

## WHO WILL ATTEND MYSTERY OF CARBON CONFERENCE?

1. Researchers & Scientists
2. Academic Professionals & Students
3. Industry Leaders & CEOs
4. Technology Innovators
5. Energy & Sustainability Experts
6. Policy Makers & Government Officials
7. Investors & Financial Analysts
8. Entrepreneurs & Startups
9. Media & Science Communicators
10. Environmental Advocates & NGOs

## WHY TO ATTEND MYSTERY OF CARBON 2025?

**Join Visionary Speakers and Industry Leaders:**

Engage with top experts and thought leaders in the field of carbon materials and materials science. Gain insights from their groundbreaking research and industry experience.

**Get Insights into the Latest Trends:**

Stay ahead of the curve by learning about the most recent advancements and trends in carbon-based materials, including graphene, carbon nanotubes, and other innovative carbon allotropes.

**Learn New Approaches and Ideas:**

Discover cutting-edge methodologies and innovative ideas that are shaping the future of materials science, particularly in the realm of carbon materials.

**Expand Your Knowledge and Find Solutions to Problems:**

Deepen your understanding of carbon materials and explore practical solutions to challenges in your research or industry.

**Learn and Develop Your Skills:**

Participate in workshops, tutorials, and hands-on sessions designed to enhance your technical skills and knowledge in materials science.

**Boost Your Professional Network:**

Connect with peers, researchers, and industry professionals from around the world. Build valuable relationships that can lead to future collaborations and opportunities.

**Present Your Ideas and Work to Other Experts:**

Showcase your research and innovations to a global audience of experts. Gain feedback and recognition for your contributions to the field.

**Meet the Market-Leading Companies:**

Interact with leading companies and organizations that are at the forefront of carbon materials technology. Learn about their latest products and services.

## CARBON MATERIALS MARKET

Amid the COVID-19 crisis, the global market for Advanced Carbon Materials estimated at US$6.1 Billion in the year 2022, is projected to reach a revised size of US$8.2 Billion by 2026, growing at a CAGR of 6.8%.

The Advanced Carbon Materials market in the U.S. is estimated at US$1.5 Billion in the year 2022. The country currently accounts for a 24.22% share in the global market. China, the world's second largest economy, is forecast to reach an estimated market size of US$1.2 Billion in the year 2026 trailing a CAGR of 8.2%. The growth of the aerospace and automotive industries is likely to drive gains in the advanced carbon materials market.

Automotive companies such as Ford and Volkswagen are increasingly focusing on developing lightweight composites for achieving greater fuel economy. The increasing government funds for nanotechnology research in countries such as China, Japan, the Netherlands, Germany, and the US are expected to lead to the emergence of novel advanced nanomaterials.

## ABOUT DUBAI, UAE

Dubai, the jewel of the United Arab Emirates, is a global hub of innovation, luxury, and cultural diversity. Known for its ultramodern skyline dominated by the Burj Khalifa-the world’s tallest building-Dubai seamlessly blends tradition with cutting-edge advancements. The city is home to extravagant shopping malls, world-class attractions, and pristine beaches. From the historic Al Fahidi district and bustling souks to futuristic landmarks like the Museum of the Future, Dubai offers an unparalleled experience for travelers. With a thriving economy, dynamic business landscape, and vibrant lifestyle, it stands as one of the most sought-after destinations for conferences, tourism, and investment.

## CITY ATTRACTION

1. Burj Khalifa – The world's tallest building with breathtaking views.
2. Palm Jumeirah – A stunning man-made island with luxury resorts.
3. Museum of the Future – A futuristic architectural marvel.
4. Dubai Aquarium & Underwater Zoo – Home to fascinating marine life.
5. Dubai Mall – A shopping paradise with entertainment options.
6. Burj Al Arab – The iconic sail-shaped luxury hotel.
7. Dubai Marina – A vibrant waterfront with restaurants and nightlife.
8. Dubai Frame – A massive frame offering panoramic city views.
9. Global Village – A cultural and entertainment hotspot.
10. Dubai Miracle Garden – A mesmerizing floral wonderland.






PRISM

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www.scientificprism.com

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