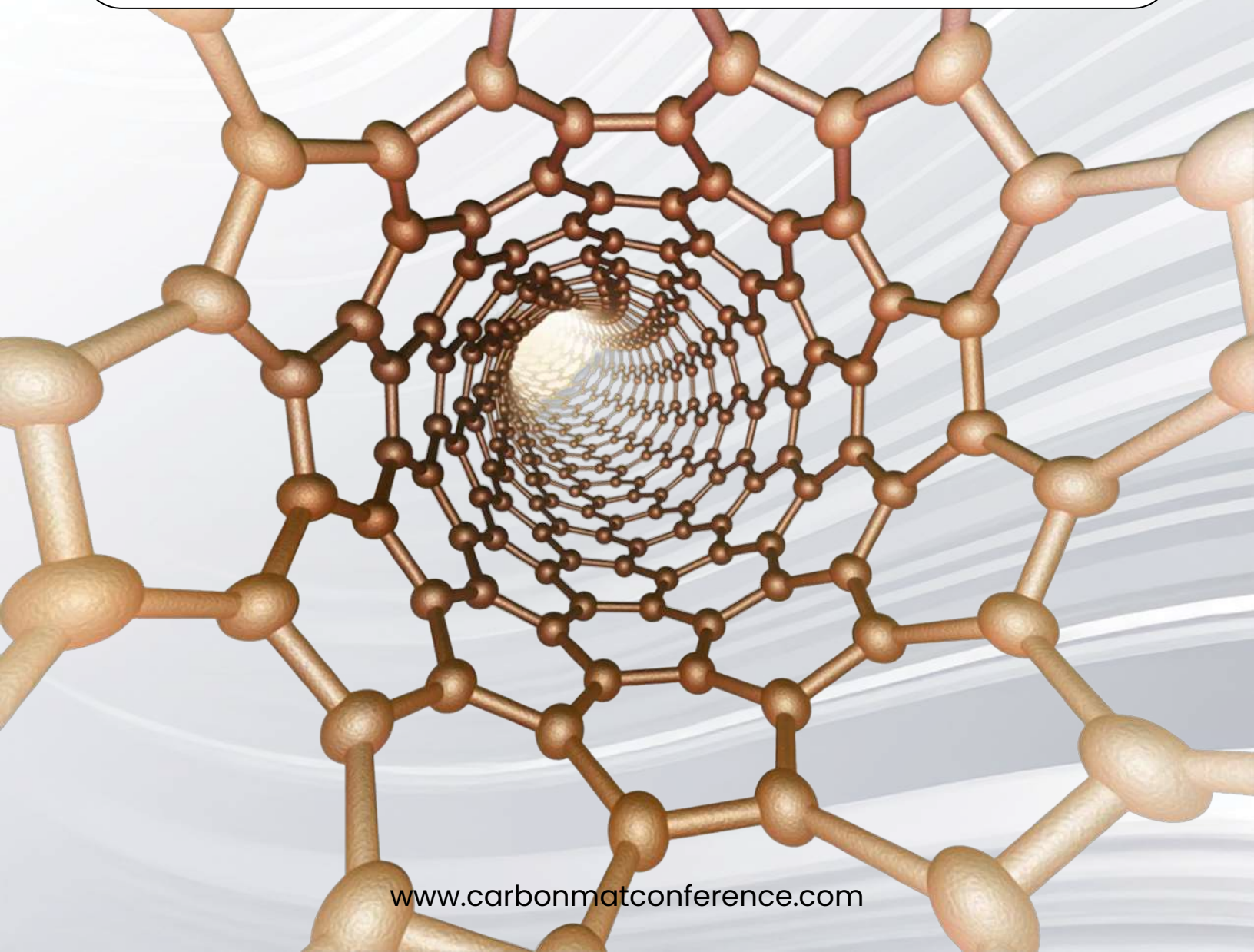




Mystery of **2025**
CARBON

INTERNATIONAL CONFERENCE ON **CARBON MATERIALS**

NOVEMBER 26–28, 2025 | RENAISSANCE BUSINESS BAY HOTEL, DUBAI



www.carbonmatconference.com

WELCOME TO MYSTERY OF CARBON 2025

The Mystery of Carbon: An Introduction to the Carbon Atom.

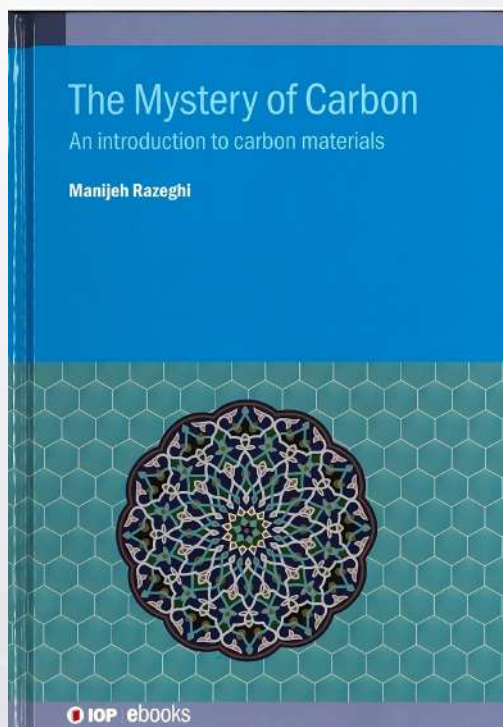
At this conference, you will embark on a journey into the fundamental building blocks of life and matter itself. Carbon, with its unique ability to form countless compounds, lies at the heart of chemistry, biology, and materials science. As we gather together, we stand on the precipice of discovery, 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



IFOR SAMUEL

Professor
University of St Andrews, UK

REGISTRATION RATES

Types of Registration	Early Bird Registration Ends on September 25, 2025	Regular Registration Ends on October 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 RENAISSANCE BUSINESS BAY HOTEL, DUBAI

We are delighted to announce that Mystery of Carbon 2025 will take place at the **Renaissance Business Bay Hotel, Dubai**—a five-star property that reflects the city's spirit of innovation and sophistication. Located along the Dubai Water Canal in the prestigious Business Bay district, the hotel offers easy access to the Burj Khalifa, Dubai Mall, and Downtown Dubai. With **11 state-of-the-art event spaces**, including a grand ballroom with natural light and panoramic views, it provides the perfect setting for a world-class conference. Delegates will enjoy **251 modern rooms and suites**, world-class dining, a rooftop pool, fitness center, spa, and inspiring views of the city skyline and canal—creating the ideal balance of productivity and relaxation. This exceptional venue offers more than a location; it sets the stage for collaboration, innovation, and unforgettable experiences.



DUBAI – CITY ATTRACTIONS

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.



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