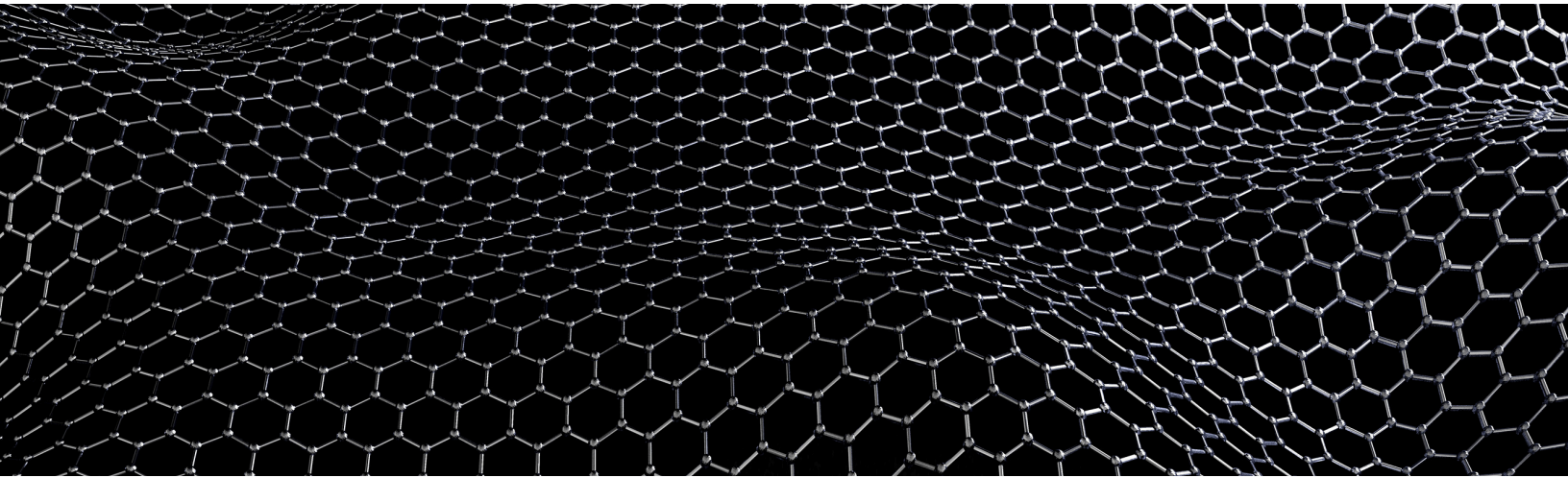


NANOTECHNOLOGY

ADVANCEMENTS - BREAKTHROUGHS - INDUSTRY NEWS



MOST RECENT BREAKTHROUGHS & ADVANCEMENTS

GOING CHIRAL: BREAKTHROUGH IN SYNTHESIZING CARBON NANOTUBES WITH PRECISE CHIRALITY

Reference: Science Daily, October 22, 2024.
<https://www.sciencedaily.com/releases/2024/10/241022132903.htm>

➤➤➤ [READ MORE](#)

Researchers have achieved a significant breakthrough in the synthesis of carbon nanotubes (CNTs) by developing a novel catalyst that allows for precise control over their atomic arrangement, known as chirality. This advancement paves the way for the creation of innovative semiconductor devices, addressing a challenge that has remained unresolved for over 30 years.

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Evanston, IL – Professors Nathan Gianneschi of the International Institute for Nanotechnology at Northwestern University in collaboration with Jeffrey A. Johnson and Delinda A. Johnson, senior scientist, of the University of Wisconsin–Madison School of Pharmacy, unveil groundbreaking research with the potential to alter the treatment landscape for neurodegenerative diseases (NDs). The study, published in the esteemed journal *Advanced Materials*, titled “Inhibiting the Keap1/Nrf2 Protein-Protein Interaction with Protein-Like Polymers,” introduces a pioneering approach aimed at combating conditions such as Alzheimer’s disease, Parkinson’s disease (PD), and Amyotrophic lateral sclerosis (ALS).

BREAKTHROUGH IN TARGETING ‘UNDRUGGABLE’ PROTEINS PROMISES NEW HORIZON FOR NEURODEGENERATIVE DISEASE TREATMENT

Reference: Northwestern / IIN, February 16, 2024.
<https://www.iinano.org/neurodegenerative-breakthrough/>

MOST RECENT BREAKTHROUGHS & ADVANCEMENTS

THE CLIMATE CRISIS IS A CALL FOR ACTION FOR NANOTECHNOLOGY

Reference: Nature Nanotechnology, October 15, 2024.
<https://www.nature.com/articles/s41565-024-01818-8>

The Nano4EARTH challenge, launched by the National Nanotechnology Initiative in the United States, has identified four strategic areas where nanotechnology can make the most impact in addressing the climate crisis.

➤➤➤ [READ MORE](#)

BREAKTHROUGH IN NANOTECHNOLOGY: VIRUS NANOTECHNOLOGY FOR INTRATUMOURAL IMMUNOTHERAPY

Reference: Nature Reviews Bioengineering, September 24, 2024.
<https://www.nature.com/articles/s41565-024-01818-8>

Scientists have made a groundbreaking discovery in the field of nanotechnology. They have developed a novel microscopy method that allows for the unprecedented visualization of nanostructures and their optical properties.

➤➤➤ [READ MORE](#)

NANOSURGICAL TOOL COULD BE KEY TO CANCER BREAKTHROUGH

Reference: Science Daily, March 6, 2024.
<https://www.nature.com/articles/s41565-024-01818-8>

A groundbreaking nanosurgical tool -- about 500 times thinner than a human hair -- could be transformative for cancer research and give insights into treatment resistance that no other technology has been able to do, according to a new study.

➤➤➤ [READ MORE](#)

UPCOMING CONFERENCES

**IC
NNFC '25**

10th International Conference on Nanomaterials, Nanodevices, Fabrication and Characterization

Barcelona, Spain | April 6 - 8, 2025

PLENARY SPEAKERS

Dr. Raul Arenal

Laboratorio de Microscopias Avanzadas, Spain

Dr. Philippe Knauth

Aix Marseille University, France

Dr. Borja Sepúlveda

Institute of Microelectronics of Barcelona, Spain

KEYNOTE SPEAKERS

Dr. Witold Musial

Wroclaw Medical University, Poland

MORE INFO

**NDDTE
'25**

10th International Conference on Nanomedicine, Drug Delivery, and Tissue Engineering

Barcelona, Spain | April 6 - 8, 2025

PLENARY SPEAKERS

Dr. Michael Xianfeng Chen

The University Of Edinburgh, UK

Dr. Seungpyo Hong

University of Wisconsin-Madison, USA

KEYNOTE SPEAKERS

Dr. Sourav Bhattacharjee

University College Dublin, Ireland

Dr. Maciej Serda

University of Silesia in Katowice, Poland

Dr. Maria Stepanova

University of Alberta, Canada

MORE INFO

TANN²⁵

9th International Conference of Theoretical and Applied Nanoscience and Nanotechnology

London, UK | July 13 - 15, 2025

PLENARY SPEAKERS

Prof. Carole Perry

Nottingham Trent University, UK

Prof. Federico Rosei

Nottingham Trent University, UK

KEYNOTE SPEAKERS

Prof. Igor Aharonivich

Nottingham Trent University, UK

Dr. Rachel Won

Nottingham Trent University, UK

MORE INFO

**IC²⁵
NFA**

16th International Conference on Nanotechnology: Fundamentals and Applications (ICNFA 2025)

Paris, France | August 21 - 23, 2025

PLENARY SPEAKERS AND KEYNOTE SPEAKERS ARE TO BE ANNOUNCED.

MORE INFO

INDUSTRY NEWS

NANOSCALE TRANSISTORS COULD ENABLE MORE EFFICIENT ELECTRONICS

Reference: MIT News, November 4, 2024. <https://news.mit.edu/2024/nanoscale-transistors-could-enable-more-efficient-electronics-1104>

Researchers are leveraging quantum mechanical properties to overcome the limits of silicon semiconductor technology.

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NEWTECH '24 / ICNFA '24

Barcelona, Spain | August 21 - 23, 2024



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