

INSTITUTE OF ADVANCED STUDIES

NANYANG TECHNOLOGICAL UNIVERSITY

Catalyse high-impact research | Transcend disciplinary boundaries | Expand knowledge & education frontiers

FEATURED ARTICLES

Nobel Prize in Economic Sciences



The 2024 Nobel Prize in Economic Sciences was awarded to Professors Daron Acemoglu, Simon Johnson, and James Robinson for their work on how strong, inclusive institutions drive prosperity, while exploitative systems hinder growth. Their research explains why some nations progress and others fall behind.

[Read more](#)

IAS 20th Anniversary Symposium



On 29 July 2025, IAS held its 20th Anniversary Symposium, bringing together Nobel and Millennium Technology Laureates, collaborators, and early-career researchers to celebrate its journey in advancing fundamental science and interdisciplinary dialogue. The event also reaffirmed IAS's mission to inspire future generations to explore, innovate, and transform the world through science.

[Read more](#)

EVENT HIGHLIGHTS

Lee Kong Chian Distinguished Professor Public Lecture by A. M. Turing Laureate



Turing Award winner Prof Jack Dongarra traced the evolution of high-performance computing from TOP500 milestones to future quantum systems, and shared career advice with students and researchers.

[Read more](#)

Lee Kong Chian Distinguished Professor Public Lecture by Nobel Laureate



Nobel Laureate Prof Duncan Haldane's lecture commemorated 100 years of quantum mechanics, highlighting entanglement, topological matter and qubits. He emphasised the role of theory, experimentation, and collaboration in advancing quantum technologies.

[Read more](#)

Tea Sessions with a Nobel Laureate and a Millennium Technology Prize Winner



NTU scholars and PhD students engaged in interactive sessions with Prof Sir Gregory Winter and Prof Stuart Parkin, who shared stories of curiosity, trial-and-error, and breakthroughs in antibody therapeutics and spintronics respectively, inspiring bold and boundary-crossing research.

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Learning Journey to NTU College of Science 4th Edition



The Learning Journey welcomed around 80 pre-university educators to NTU's College of Science, featuring lab tours, faculty sharing, and panel discussion that fostered exchanges and future collaborations in science education and talent development.

[Read more](#)

IAS Frontiers Workshop on Quantum Geometric Advantage



The event brought together leading experts in quantum geometry and materials science, including Nobel Laureate Prof Duncan Haldane, sparking collaborations and innovative ideas to advance quantum technologies and cross-disciplinary research.

[Read more](#)

IAS Frontiers Workshop on Renewable Energy for a Sustainable Future



The workshop brought together international scholars and industry experts to discuss the most recent advancements and future directions in renewable energy technologies, strengthening interdisciplinary exchanges and promoting collaborative innovation.

[Read more](#)

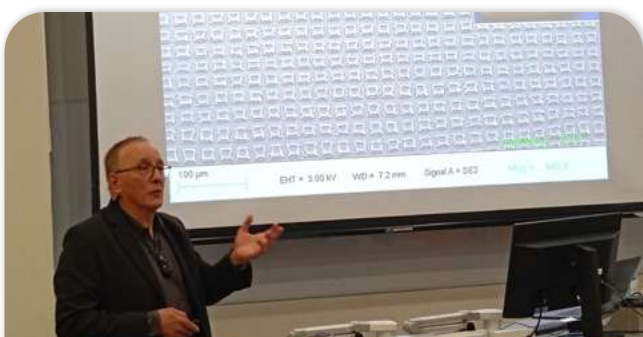
Perovskite Materials and Devices: Discovery to Application



Dr Pablo Boix and Assoc Prof Francesca Brunetti shared recent advancements in halide perovskites, from crystal diagnostics to flexible solar cells for wearables and space applications, highlighting their potential impacts on energy and electronics.

[Read more](#)

Nature: A Source of Inspiration for Innovation in Materials Science



Prof Clément Sanchez's colloquium showcased innovations in hybrid nanomaterials, biomedical applications, and sustainability, highlighting biomimicry's role in cutting-edge, nature-inspired materials research.

[Read more](#)

What Are Carbon Dots and Why Can They Emit Light



Prof Andrey Rogach's talk on carbon dots highlighted tunable light emission, unique morphologies, and AI-driven sensing, sparking interdisciplinary discussions on nanomaterial advances.

[Read more](#)

Unconventional Solar Solutions with Hybrid Perovskite Materials



Prof Lioz Etgar presented breakthrough research on hybrid perovskites, featuring efficient transparent solar cells and innovative applications in agrivoltaics and urban solar integration.

[Read more](#)

UPCOMING EVENTS

Floquet Engineering of Quantum Materials

IAS Frontiers Seminars: Quantum Horizons By Prof Shuyun Zhou

8 September 2025, SPMS - MAS EC1

[Register now](#)

The Smallest Stepping Stone: Quantum Dot Physics Using Atomic Defects

IAS STEM Graduate Colloquium by Prof Hadar Steinberg

24 September 2025, SPMS LT4

[Register now](#)

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