

INSTITUTE OF ADVANCED STUDIES

NANYANG TECHNOLOGICAL UNIVERSITY

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

FEATURED ARTICLES

The Breakthrough Behind the Jab: Turning the Tide Against COVID-19

2023 Nobel Prize in Physiology/Medicine



The 2023 Nobel Prize in Physiology or Medicine were awarded to Prof Katalin Karikó and Prof Drew Weissman for their discoveries of nucleoside base modifications that enabled the development of effective mRNA vaccines against COVID-19.

[Read more](#)

Young Scientist Award 2023 (S'pore National Academy of Science & National Research Foundation)



Nanyang Assistant Professor Chang Guoqing from SPMS was honoured with the prestigious 2023 Young Scientist Award for his groundbreaking work on topological quantum materials. The SPMS Graduate Students' Club conducted a candid interview with him about his research journey, overcoming challenges, and more.

[Read more](#)

Teacher Work Attachment Experience @ the SBS' Plant Systems Biology and Evolution Lab



Justin Heng, a Biology Lecturer from Hwa Chong Institution, shared reflections on his three-week attachment to SBS, which provided him with a new perspective on data-driven research etc. He recounted reliving the experiences of being a student again and experiencing a renewed sense of excitement for the world of science.

[Read more](#)

EVENT HIGHLIGHTS

IAS Discovery Science Seminar and STEM Graduate Colloquium Jointly Organised with the Graduate Students' Clubs



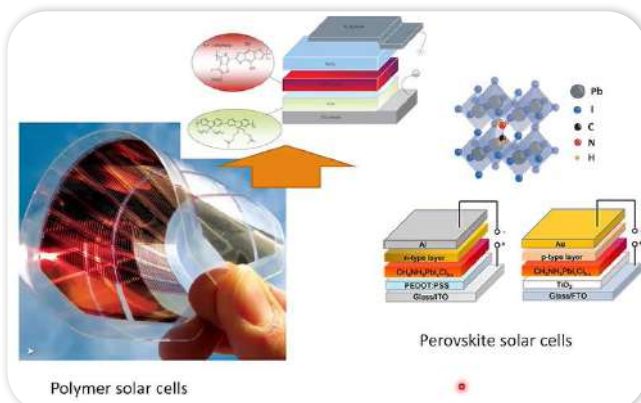
When Chirality Meets Topology in Materials by Nanyang Assistant Prof Chang Guoqing (SPMS NTU)



Dr Chang's lecture delved deeply into the captivating world of chirality within chiral crystals, offering insightful explanations and applications in electronic systems. His presentation on Weyl materials intrigued the participants, leaving them eager to know more about the hidden magic of these materials.

[Read more](#)

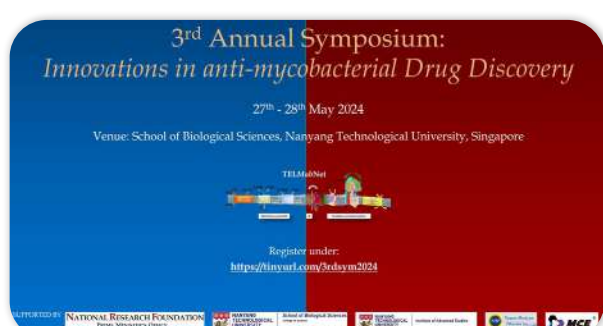
Next Generation Solar Cells: Which One Will Win the Race? by Prof Wang Hongxia (Queensland Univ of Technology)



Prof Wang Hongxia's webinar addressed the evolution of first-generation solar cells, primarily based on silicon, to the third-generation solar cells, where perovskite emerges as a leading source of renewable energy. She also discussed ongoing challenges related to cost, lifetime, efficiency, and environmental impact.

[Read more](#)

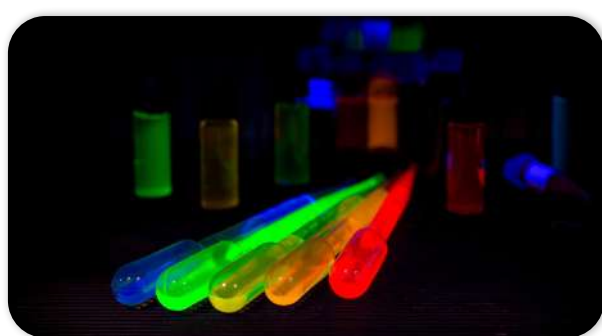
UPCOMING EVENTS



3rd Annual Symposium: Innovations in anti-mycobacterial Drug Discovery 27 to 28 May 2024, SBS Classroom 1

[Register now](#)

IAS@NTU STEM Graduate Colloquia



Insights into the History of Colloidal Quantum Dots – a European Perspective by Prof Andrey Rogach 30 April 2024, 2pm, SPMS LT2

[Register now](#)



Advanced Point-of-Care Technologies for Asymptomatic Screening in One-Health by Prof Luisa Torsi 29 May 2024, 2pm, SPMS LT2

[Register now](#)

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