

INSTITUTE OF ADVANCED STUDIES

**NANYANG
TECHNOLOGICAL
UNIVERSITY**

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

FEATURED ARTICLES



Organic Catalysis That Makes Life Better

The 2021 Nobel Prize in Chemistry has broadened our understanding of organic catalysts. In particular, the non-toxic quality of organic catalysts ensures that chemical processes are not harmful to human health, improving our standards of living.

[Read more](#)



Web of Science's Hot Paper Nano Forest for Efficient Water Splitting

Prof Yang Cheng from Tsinghua and Prof Fan Hongjin from NTU fabricated pure nickel nanowires array cathode to provide a new and promising approach to develop highly active and stable electrolytic water catalysts towards industrial hydrogen production from water.

[Read more](#)



Prof Nikolay Zheludev elected as Fellow of the Hagler Institute for Advanced Study

IAS Distinguished Fellow Prof Nikolay Zheludev is among eight distinguished Hagler Fellows elected for 2021-22, including a recipient of the 2018 Nobel Prize in Physics.

[Read more](#)



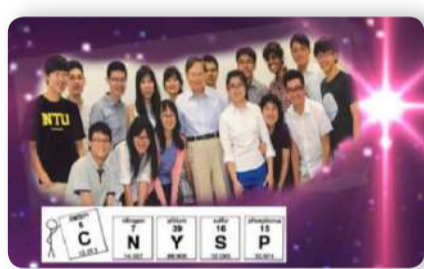
2021 MIT Technology Review Innovators Under 35 Asia Pacific

Nanyang Asst Prof Chen Yu-Cheng was honoured among the most influential innovators in Asia Pacific. EEE Graduate Students' Club had a candid conversation with him about his research and personal journey.

[Read more](#)

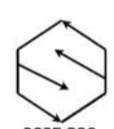
EVENT HIGHLIGHTS

CN Yang Scholars Programme 15th Anniversary Symposium (4 June 2021)



The symposium was held to commemorate the 15th Anniversary of the CN Yang Scholars Programme, named after Nobel Laureate Prof Chen-Ning Yang, and to celebrate the achievements of the current scholars and alumni in research.

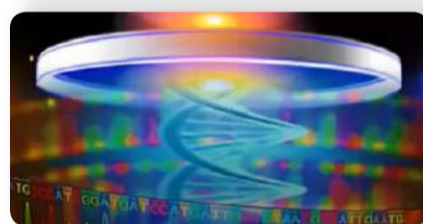
[Read more](#)



Discovery Science Seminars (June to Nov 2021)

Jointly organised with the Graduate Students' Clubs, outstanding NTU faculty who have made significant contributions to science were invited to present their seminal works and share their inspirational scientific and research experiences.

- ◇ Make Future Smart Batteries | Prof Fan Hongjin (SPMS)
- ◇ Food Tech Innovations for Circular Economy & Sustainable Food Security | Prof William Chen (Food Science & Technology Programme)
- ◇ Long-term Drivers of Aboveground-Belowground Linkages & Ecosystem Functioning | Prof David Wardle (ASE)
- ◇ Topological Solitons for Quantum Operations | Prof Christos Panagopoulos (SPMS)
- ◇ Bio-intelligent Lasers for Healthcare | Nanyang Assistant Prof Chen Yu-Cheng (EEE, SCBE)
- ◇ Smart Materials and Smart Devices | Dr Long Yi (MSE)



[Watch the videos](#)

STEM Graduate Colloquia (Aug to Dec 2021)

Jointly organised with the Graduate Students' Clubs, the populist topics cover a broad interest in the STEM areas. The speakers include accomplished scientists from academia and industry, as well as NTU eminent faculty.

- ◇ My Journey in Research | Prof Loh Xian Jun (A*STAR, IMRE)
- ◇ AI for Monitoring Mental Health | Assoc Prof Justin Dauwels (TU Delft)
- ◇ Eight Habits of Highly Successful Researchers | Prof Michael Khor (TRACS)



[Watch the videos](#)

UPCOMING HYBRID EVENTS

IAS Lee Kong Chian Distinguished Professor Public Lecture by Prof Stuart Parkin (Millennium Technology Laureate, IBM Fellow)

19 Jan 2022 | 430pm to 6pm | Nanyang Auditorium

Chiral Spin Textures and Chiral Spin-Orbit Torques for Spintronic Memories



[Register here](#)

Centennial Conference in honour of Nobel Laureate Prof Chen-Ning Yang's 100th Birthday

4 Mar 2022 | Nanyang Auditorium

Registration for the hybrid event opens soon.



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