

NISTH WEEKLY

JULY 18 - 25, 2022

FELLOWS SHOWCASE

HUAJIAN GAO

Huajian Gao is a Distinguished University Professor at the School of Mechanical and Aerospace Engineering at Nanyang Technological University (NTU). His research has been focused on the understanding of basic principles that control mechanical properties and behaviors of materials in both engineering and biological systems.



DID YOU KNOW #DYK

Dr Huajian Gao developed theories and made fundamental discoveries that laid the foundation for nanomechanics of engineering and biological systems, a new field he helped create during the past three decades.

He has been elected to the US National Academy of Sciences and US National Academy of Engineering. His major awards include the Rodney Hill Prize from the International Union of Theoretical and Applied Mechanics, one of the highest honors in his field.

Prof Gao Huajian awarded 2022 TMS William D. Nix Award

ASCE has honored Huajian Gao, Ph.D., Aff.M.ASCE, with the 2022 Zdeněk P. Bazant Medal for Failure and Damage Prevention for his contributions to fracture mechanics and failure prevention in nanostructured materials, including metals, metamaterials, and battery electrodes.

He was awarded the prestigious 2021 American Society of Mechanical Engineers (ASME) Timoshenko Medal for his pioneering contributions to a new interdisciplinary research field.

Prof Gao, was named among the world's most highly cited researchers for 2015 on a list compiled by Thomson Reuters.

#nisthreads Prof Gao's latest publications include:

[Lead removal at trace concentrations from water by inactive yeast cells](#)

[Toughening two dimensional materials through lattice disorder](#)

[Antimicrobial activity of the membrane-active compound nTZDpa is enhanced at low pH](#)

[Thermal-fluctuation gradient induced tangential entropic forces in layered two-dimensional materials](#)

NISTH

NEWS & EVENTS



NISTH NEWSLETTER - JUNE 2022

latest News, Views and Announcements

The NISTH second quarter Newsletter is out! Stay in the know, read the latest news, views, happening and announcements from NISTH. Find avenues where you can get involved.

If you would like to contribute to it, email us at: nisth-events@ntu.edu.sg

Read it: [Here](#)



2nd GLOBAL DIGITAL ART PRIZE (GDAP) 2022

Sustainable People, Inspiring Change

Taking the form of a biennial competition, the NTU Global Digital Art Prize (NTU-GDAP) is where artistry, technological innovations and scientific interests collide. It recognises global artists, technologists & scientists with extraordinary creativity in digitally mediated art, design & cultural heritage. The theme for NTU-GDAP 2022 is *Sustainable People, Inspiring Change*.

More information: [Here](#)

NISTH FELLOWS / IAB / PARTNERS

IN THE MEDIA



Prof Lam Yeng Ming

11 July 2022

New \$6.5m effort to make nanoparticle manufacturing in S'pore cheaper, more efficient

Prof Stefan Wuertz

13 July 2022

Scientists discover 'future-proof' method using bacteria to remove phosphorus from wastewater



IN EVENTS

World Cities Summit 2022; Liveable and Sustainable Cities: Emerging Stronger (WCS 2022)

31 July – 3 Aug 2022

WCS 2022, is an opportune platform to share best practices and innovative solutions for our cities to be more liveable, sustainable, & resilient. Apart from our usual highlights - the Lee Kuan Yew World City Prize, WCS Mayors Forum, WCS Young Leaders Symposium and WCS Smart Cities Workshop, global, business, and thought leaders will discuss our theme through plenary sessions and tracks.

More information: [Here](#)



2nd International Conference on Materials for Humanity (MH 22)

19 – 21 Sept 2022; 8:30 AM

MH 22, is organised by the MRS Singapore, showcasing the latest developments in materials science & engineering that will secure a sustainable future. NISTH Postdoc Dr Iuna Tsyrlunova, will be chairing the session on Sustainable Materials Development & Use, under the Materials for education & communication symposium, which aims to serve as a basis for the development of guidelines in sustainable synthesis & in purpose- and function-driven application of materials. Other NISTH Fellows involved are, Prof Lee Pooi See, Assoc Prof Sierin Lim, and Assoc Prof Tan Lay Poh.

More Info: [Here](#)



OTHER EVENTS AND OPPORTUNITIES OF INTEREST

SCP Boutique Conference

29 Jul 2022 - 31 Jul 2022

SCP Boutique Conference, aims to showcase the latest research on cross-cultural consumer behavior. The conference is open to those with a serious interest in understanding how culture shapes consumers' judgments, choices, responses, and behaviors through high rigorous theoretical and empirical research. A unique highlight of the conference will be a keynote speech by a world-renowned scholar who can give a good perspective on recent developments in cross-cultural consumer behavior and topics needing more work.

More info: [Here](#)



Transform MedEd 2022

11 – 12 November 2022

Transform MedEd 2022, (GAEDIA), invites 3-4 advanced level PhD/Master level students, to join the group & work in a supported process for 8 months, from 25 Aug 2022. The program is an extension of a program just completed with a [conference at Stanford \(online\)](#) on May 19, 2022. They aim for diversity, are open to high level students (PhD/Master) from various areas such as engineering, law, philosophy, anthropology or other, with interest and insight into tech and the financial sector.

More info: [Here](#)



IEEE International Symposium on Mixed and Augmented Reality (ISMAR)

17 - 21, October 2022; 9:00 AM – 10:00 AM (SGT)

ISMAR is the premier conference for Augmented Reality, Mixed Reality, and Virtual Reality. Every year, ISMAR attracts a large number of world leading researchers from both academia and industry. First time in Southeast Asia, the 21st ISMAR will be held here in Singapore.

For more info, please contact Prof Yiyu Cai. Conference website: [Here](#)



Singapore International Energy Week (SIEW) 2022

25 - 28, October 2022

SIEW 2022, is an annual platform for energy professionals, policymakers and commentators to discuss and share best practices and solutions within the global space. Organised by the Energy Market Authority of Singapore, the theme for SIEW 2022 is "A Resilient and Sustainable Energy Future". SIEW 2022 will discuss policies, frameworks, and best practices to accelerate the transition to a more resilient, greener and more inclusive energy future. It will also examine the opportunities and challenges as the region scales up investments and regional connectivity for a green economy.

More info: [Here](#)



contact us

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