



## **NEWS RELEASE**

**Singapore, 15 November 2022**

### **NTU among top 25 in the world and first in Singapore with the biggest number of the most highly cited researchers**

*41 NTU scientists in Clarivate's Highly Cited Researchers 2022 list, the most among Singapore institutions*

**Nanyang Technological University, Singapore (NTU Singapore)** is among the top 25 institutions globally with the most number of influential scientists mentioned. The University is now at 23rd place, up from 25th last year.

Today, 41 researchers from NTU with significant and broad influence in their fields of research were named in the **Highly Cited Researchers 2022 list by Clarivate Analytics**, a United States-based data company.

The 41 scientists account for 44 mentions in the list, with two individuals recognised more than once. In 2021's list, NTU had 36 researchers with 38 mentions.

For the fifth year running, NTU has the largest number of influential scientists among Singapore institutions recognised in the list.

About half of the listed NTU researchers are cited for their interdisciplinary work, attesting to progress in delivering on a key aim of the University's five-year strategic plan, NTU2025 – to support high-impact interdisciplinary research to address humanity's grand challenges, such as mitigating people's impact on the environment and technology's impact on humanity.

NTU's strong performance has also contributed to Singapore's position for the first time in the top 10 of countries and regions with the highest mentions in the Highly Cited Researchers list. Singapore is now 10th. It was placed 13th last year.

There are 6,900 international scientists from about 70 countries and regions in this year's list, which identifies and celebrates the world's most influential scientists for their impact on the research community, based on the rate at which their work has been cited by others over the last decade.

**NTU Senior Vice President (Research) Prof Lam Khin Yong** said: “With Singapore breaking into the top 10 countries and regions that have the most mentions in this year’s Highly Cited Researchers list, NTU continues to contribute to the country’s Research, Innovation and Enterprise 2025 plan.<sup>1</sup> The University is addressing a broad range of complex challenges the world faces, such as environmental sustainability and future healthcare, with an interdisciplinary approach to research. This taps schools, laboratories, research centres and institutes from different fields to catalyse the development of breakthrough ideas and technologies from NTU for the world.”

**David Pendlebury, Head of Research Analysis at the Institute for Scientific Information at Clarivate**, said: “Research fuels the race for knowledge and it is important that nations and institutions celebrate the individuals who drive the wheel of innovation. The Highly Cited Researchers list identifies and celebrates exceptional individual researchers at NTU Singapore with a significant impact on the research community, as evidenced by the rate at which their work is being cited by their peers. These scientists are helping to transform human ingenuity into our world’s greatest breakthroughs – and it is an honour to celebrate their achievements. They have also contributed significantly to Singapore making it into, for the first time since 2014, the top 10 countries and regions with the greatest number of Highly Cited Researchers.”

Singapore’s 106 mentions in 2022 represent a 1.5 per cent share of all Highly Cited Researchers globally. Last year, Singapore had 90 mentions in Clarivate’s list, which began in 2014.

### **Who’s who of influential researchers**

Clarivate’s Highly Cited Researchers list recognises researchers whose citation records place them in the top 1 per cent based on the number of citations for their fields and year across more than 20 disciplines, including chemistry, engineering, economics and the social sciences.

The NTU scientists on the list focus on research areas such as additive manufacturing, artificial intelligence, biomedical engineering, clean energy, clinical medicine, environmental science and materials science. Of the 41 NTU scientists in the list, half of them, or 21 individuals, are recognised for their interdisciplinary research.

They include materials scientist **Prof Madhavi Srinivasan**, who researches on improving the performance of eco-friendly batteries and developing sustainable, green recycling technologies to recover valuable materials from e-waste.

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<sup>1</sup> The Singapore Government’s S\$25 billion Research, Innovation and Enterprise 2025 plan was launched in 2020 to chart the country’s research landscape in four areas of focus: manufacturing, health, sustainability and the digital economy.

Said Prof Madhavi, who heads the NTU Sustainability Office and the Energy Research Institute @ NTU: “An interdisciplinary approach is crucial for my team’s research. Our expertise in diverse fields – such as materials science, chemistry and environmental engineering – has allowed us to better develop innovative solutions that bring value to the circular economy where waste is reduced and resources are maximised.”

Also on the list are NTU academic leaders **Prof Joseph Sung**, Senior Vice President (Health and Life Sciences) and Dean of NTU’s Lee Kong Chian School of Medicine, and **Prof Lee Pooi See**, Associate Provost (Graduate Education) and Dean of NTU’s Graduate College.

Researchers who have been on the list since 2014 include **Prof David Lou** in chemistry, environmental science and materials science, and **Prof David Wardle** in environmental science.

Prof Lou is one of only 28 researchers worldwide who has been recognised in the Highly Cited Researchers 2022 list in three fields.

His research covers battery electrodes made of materials that have tiny nano-sized structures, as well as similar electrode materials used in electrochemical processes that rely on catalytic substances to speed up the reactions.

Another NTU scientist, **Assoc Prof Pu Kanyi**, has been named in two research areas in Clarivate’s list – chemistry and materials science.

Assoc Prof Pu, whose research interests include molecular imaging and chemical biology, is among the 219 researchers globally recognised in two fields in this year’s list.

The full Highly Cited Researchers 2022 list can be found online [here](#).

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### Notes to Editor:

NTU Singapore scientists in the Highly Cited Researchers 2022 list:

	<b>First name</b>	<b>Last name</b>	<b>Field of research</b>
1	Bin	Liu	Chemistry
2	Xiong Wen (David)	Lou	Chemistry; environment and ecology; materials science
3	Kanyi	Pu	Chemistry; materials science
4	Yanli	Zhao	Chemistry
5	Joseph Jao-Yiu	Sung	Clinical medicine
6	Erik	Cambria	Computer science

7	Dusit	Niyato	Computer science
8	Peng	Chen	Cross-field
9	Zhong	Chen	Cross-field
10	Bu Yuan	Guan	Cross-field
11	Yuyan	Jiang	Cross-field
12	Pooi See	Lee	Cross-field
13	Jingchao	Li	Cross-field
14	Weisi	Lin	Cross-field
15	Nripan	Mathews	Cross-field
16	Subodh G.	Mhaisalkar	Cross-field
17	Jianwei	Nai	Cross-field
18	Zexiang	Shen	Cross-field
19	Jun	Song Chen	Cross-field
20	Madhavi	Srinivasan	Cross-field
21	Tze Chien	Sum	Cross-field
22	Dingyuan	Tang	Cross-field
23	Xin	Wang	Cross-field
24	Ya	Yan	Cross-field
25	Wai Yee	Yeong	Cross-field
26	Zhiyuan	Zeng	Cross-field
27	Kun	Zhou	Cross-field
28	Jixin	Zhu	Cross-field
29	David	Wardle	Environment and ecology
30	Hua	Zhang	Environment and ecology
31	Zhongbao	Wei	Engineering
32	Changyun	Wen	Engineering
33	Laurent	Renia	Immunology
34	Xiaodong	Chen	Materials science
35	Hong Jin	Fan	Materials science
36	Zheng	Liu	Materials science
37	Zhichuan J.	Xu	Materials science
38	Qingyu	Yan	Materials science
39	Guoqing	Chang	Physics
40	Yidong	Chong	Physics
41	Ranjan	Singh	Physics

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## ***About Nanyang Technological University, Singapore***

A research-intensive public university, Nanyang Technological University, Singapore (NTU Singapore) has 33,000 undergraduate and postgraduate students in the Engineering, Business, Science, Medicine, Humanities, Arts, & Social Sciences, and Graduate colleges.

NTU is also home to world-renowned autonomous institutes – the National Institute of Education, S Rajaratnam School of International Studies, Earth Observatory of Singapore, and Singapore Centre for Environmental Life Sciences Engineering – and various leading research centres such as the Nanyang Environment & Water Research Institute (NEWRI) and Energy Research Institute @ NTU (ERI@N).

Under the NTU Smart Campus vision, the University harnesses the power of digital technology and tech-enabled solutions to support better learning and living experiences, the discovery of new knowledge, and the sustainability of resources.

Ranked amongst the world's top universities, the University's main campus is also frequently listed among the world's most beautiful. Known for its sustainability, over 95% of its building projects are certified Green Mark Platinum. Apart from its main campus, NTU also has a medical campus in Novena, Singapore's healthcare district.

For more information, visit [www.ntu.edu.sg](http://www.ntu.edu.sg)