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[English translation](#)

## **List of global "Highly Cited Researchers" released! NTU ranked No. 1 in Singapore for 6 consecutive years**

In this year's Highly Cited Researchers list released by United Kingdom data firm Clarivate, Singapore's Nanyang Technological University rose one place to 22nd in the world. For the sixth year in a row, Nanyang Technological University is the university with the highest number of influential scientists among recognised institutions in Singapore, with a total of 42 Nanyang Technological University researchers with significant and broad influence in their respective fields of study.

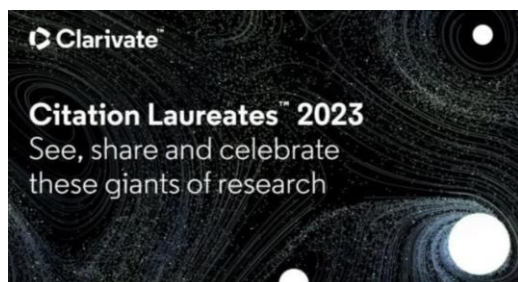
### **List of "Highly Cited Researchers"**

The Global Highly Cited Researchers list selects top scientific minds from universities, research institutes and commercial organizations around the world who have a significant and broad impact on their research fields. The methodology for the selection of highly cited researchers was developed by bibliometrics experts and data scientists at the Clarivate Institute for Scientific Information (ISI) based on Web of Science™ citation data and its analysis.



*Source: Clarivate*

November 15, 2023 – Clarivate has released its 2023 global Highly Cited Researchers list, which selects top scientific talent from universities, research institutes, and commercial organizations around the world who have a significant and broad impact on their research fields. A total of 6,849 scientists from more than 1,300 institutions in 67 countries and regions around the world were selected for the 2023 list. The methodology for the selection of global Highly Cited Researchers was developed by bibliometrics experts and data scientists at the Clarivate Institute for Scientific Information (ISI™) based on Web of Science™ citation data and its analysis.



*Source: Clarivate*

## Ranking overview

This year, 6,849 scientists from institutions in 67 countries and regions were included in the global Highly Cited Researchers list. 83.8% of the selected candidates came from 10 countries and regions, and the top 5 countries and regions with the most selected candidates accounted for 72.6% of the total number of lists.

A number of outstanding scientists have been selected for multiple ESI subject lists: 238 in two disciplines, 21 in three disciplines, four in four disciplines, and one in five disciplines. Their academic output has a wide impact across multiple disciplines.

表1: 2023年度全球高被引科学家上榜人次前十的国家或地区

| 排名 | 国家/地区 | 2023年HCR人次 | 全球占比 (%) | 较2022年变化 |
|----|-------|------------|----------|----------|
| 1  | 美国    | 2,669      | 37.5     | -0.8     |
| 2  | 中国内地  | 1,275      | 17.9     | 1.7      |
| 3  | 英国    | 574        | 8.1      | 0.1      |
| 4  | 德国    | 336        | 4.7      | -0.4     |
| 5  | 澳大利亚  | 321        | 4.5      | -0.2     |
| 6  | 加拿大   | 218        | 3.1      | 0        |
| 7  | 荷兰    | 195        | 2.7      | -0.2     |
| 8  | 法国    | 139        | 2        | 0.1      |
| 9  | 中国香港  | 120        | 1.7      | 0.3      |
| 10 | 意大利   | 115        | 1.6      | 0.1      |

Source: Clarivate

A total of 2,669 people in the United States were selected, accounting for 37.5% of the total, down from 43.3% in 2018. Although the proportion of highly cited researchers in the United States continues to decline slowly, the level of scientific research in the United States still leads in the world.

Mainland China continued to rank second this year, with 1,275 participants, up from 7.9% in 2018 to 17.9%. Over the past five years, Chinese mainland scientists have more than doubled the proportion of globally highly cited researchers, reflecting the important global rebalancing of high-level research and academic contributions driven by the globalization of scientific research.

The Chinese Academy of Sciences (CAS) has 270 highly cited researchers on the list, up from 228 last year, making it the institution with the highest number of highly cited researchers in the world. Other top government and public research institutions include the National Institutes of Health (105), the Max Planck Society (59), the Memorial Sloan Kettering Cancer Center (49), and the Broad Institute (27).

表2：2023年度全球高被引科学家上榜人次前十的机构

| 排名 | 机构名称             | HCR人次数 |
|----|------------------|--------|
| 1  | 中国科学院，中国内地       | 270    |
| 2  | 哈佛大学，美国          | 237    |
| 3  | 斯坦福大学，美国         | 126    |
| 4  | 美国国立卫生研究院，美国     | 105    |
| 5  | 清华大学，中国内地        | 78     |
| 6  | 麻省理工学院，美国        | 73     |
| 7  | 加利福尼亚大学圣地亚哥分校，美国 | 71     |
| 8  | 宾夕法尼亚大学，美国       | 63     |
| 9  | 牛津大学，英国          | 62     |
| 10 | 马克斯·普朗克学会，德国     | 59     |

Source: Clarivate

Clarivate’s global Highly Cited Researchers list is presented annually to recognize natural and social scientists who have made significant contributions to their disciplines with global impact. This year, a total of 6,849 researchers and 7,125 researchers were selected into the list of highly cited researchers in the world. Since some researchers are recognized in more than one ESI discipline, the total number of inductees exceeds the total number of selected scientists.

The analysis of countries and institutions is based on a total of 7,125 participants, 3,793 in 20 ESI disciplines and 3,332 in interdiscursive, representing only one in 1,000 researchers worldwide. This year's list is based on the number of highly cited papers published in the 11-year period from January 2012 to December 2022. The selection method was based on the rigorous evaluation and collation of the data of highly cited papers in SCIE and SSCI journals by bibliometric experts from the Institute of Scientific Information of Clarivate, covering 188,500 highly cited papers in various disciplines.

### NTU performance

This is the sixth consecutive year that Nanyang Technological University Singapore has had the most influential scientists among Singapore institutions, with a total of 42 Nanyang Technological University researchers with significant and extensive influence in their research fields on the list. The 42 scientists were mentioned 44 times in the list, and two of them were mentioned more than once. In 2022, there were 41 researchers at Nanyang Technological University and 44 mentions.

NTU Singapore scientists in the Highly Cited Researchers 2023 list:

|    | First name     | Last name  | Field of research            |
|----|----------------|------------|------------------------------|
| 1  | Kanyi          | Pu         | Chemistry; materials science |
| 2  | Zhichuan J.    | Xu         | Chemistry; materials science |
| 3  | Yanli          | Zhao       | Chemistry                    |
| 4  | Joseph Jao-yiu | Sung       | Clinical medicine            |
| 5  | Erik           | Cambria    | Computer science             |
| 6  | Dusit          | Niyato     | Computer science             |
| 7  | Chau           | Yuen       | Computer science             |
| 8  | Peng           | Chen       | Cross-field                  |
| 9  | Zhong          | Chen       | Cross-field                  |
| 10 | Kit Wayne      | Chew       | Cross-field                  |
| 11 | Shuo           | Dou        | Cross-field                  |
| 12 | Bu Yuan        | Guan       | Cross-field                  |
| 13 | Jiaguo         | Huang      | Cross-field                  |
| 14 | Yuyan          | Jiang      | Cross-field                  |
| 15 | Jong-Min       | Lee        | Cross-field                  |
| 16 | Pooi See       | Lee        | Cross-field                  |
| 17 | Jingchao       | Li         | Cross-field                  |
| 18 | Qinghua        | Liang      | Cross-field                  |
| 19 | Weisi          | Lin        | Cross-field                  |
| 20 | Deyan          | Luan       | Cross-field                  |
| 21 | Nripan         | Mathews    | Cross-field                  |
| 22 | Subodh G.      | Mhaisalkar | Cross-field                  |
| 23 | Jianwei        | Nai        | Cross-field                  |
| 24 | Zexiang        | Shen       | Cross-field                  |
| 25 | Jibin          | Song       | Cross-field                  |
| 26 | Madhavi        | Srinivasan | Cross-field                  |
| 27 | Tao Chien      | Sun        | Cross-field                  |
| 28 | Dingyuan       | Tang       | Cross-field                  |
| 29 | Ya             | Yan        | Cross-field                  |
| 30 | Y.             | Zhang      | Cross-field                  |
| 31 | Kun            | Zhou       | Cross-field                  |

|    |          |       |                   |
|----|----------|-------|-------------------|
| 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 | Xin      | Wang  | Materials science |
| 38 | Qingyu   | Yan   | Materials science |
| 39 | Scott A. | Rice  | Microbiology      |
| 40 | Guoqing  | Chang | Physics           |
| 41 | Yidong   | Chong | Physics           |
| 42 | Ranjan   | Singh | Physics           |

*Nanyang Technological University has been selected as one of the 2023 Highly Cited Researchers*  
*Source: NTU official website*

Approximately half of the NTU researchers listed are from interdisciplinary fields, demonstrating that NTU has made significant progress in achieving a key objective of the five-year strategic plan NTU2025 to support high-impact interdisciplinary research. Through interdisciplinary research, NTU hopes to address the major challenges facing humanity, such as the impact of people on the environment and the impact of technology on the humanities.



*Prof Luke Ong*  
*NTU Distinguished University Professor and Vice President, Professor in the School of Computer Science and Engineering*  
*Source: NTU official website*

Nanyang Technological University Vice President Professor Luke Ong said: "The NTU 2025 research strategy is a roadmap for the University to create societal impact through interdisciplinary research that solves real-world problems. At NTU, faculty members, researchers, and administrators aim to excel in their roles to co-create a conducive research environment. Emerging first in Singapore with the highest number of highly cited researchers named is a testament to the University's efforts and our contributions towards research excellence in the country and the world."



*Source: NTU*

David Pendlebury, Head of Research Analysis at the Institute for Scientific Information at Clarivate said: "The Highly Cited Researchers list identifies and celebrates exceptional individual researchers at NTU Singapore whose significant and broad influence in their fields translates to impact in their

research community and innovations that make the world healthier, more sustainable and more secure. Their contributions resonate far beyond their individual achievements, strengthening the foundation of excellence and innovation in research. They have also helped NTU to come up tops again in Singapore and contributed significantly to the country doing well on this year's list."



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