

# GLOBAL LEADERS

While the Nature Index top 20 institutions also dominate our 2018 subject rankings, outliers offer some surprises.

**THIS GRAPH EXPLAINED**  
 The left axis of the central graph shows the top 20 global institutions ranked by Fractional Count (FC)\*. The right side shows the top 10 institutions in each of the four natural sciences subjects covered by the Nature Index ranked by their FC in that subject. Line widths are proportional to each institution's FC, and the vertical bars on either side show the percentage change in FC.

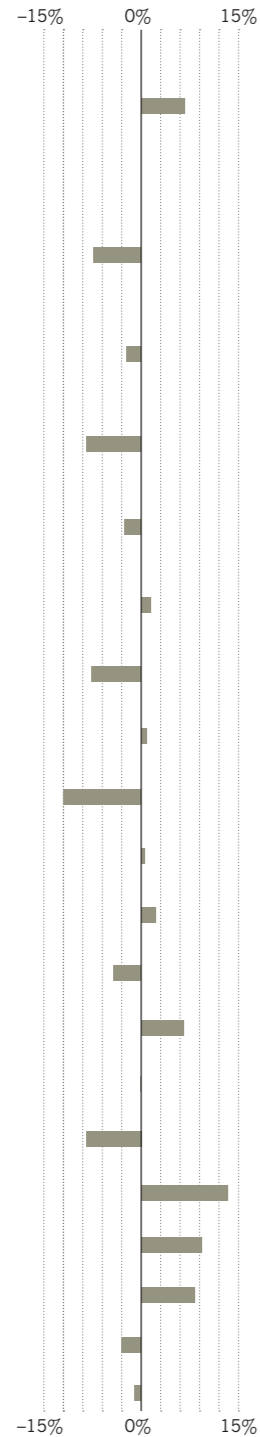
SOURCE: NATURE INDEX

Legend:  
 Overall (grey bar)  
 Life sciences (purple)  
 Chemistry (yellow)  
 Physical sciences (blue)  
 Earth & environmental sciences (red)

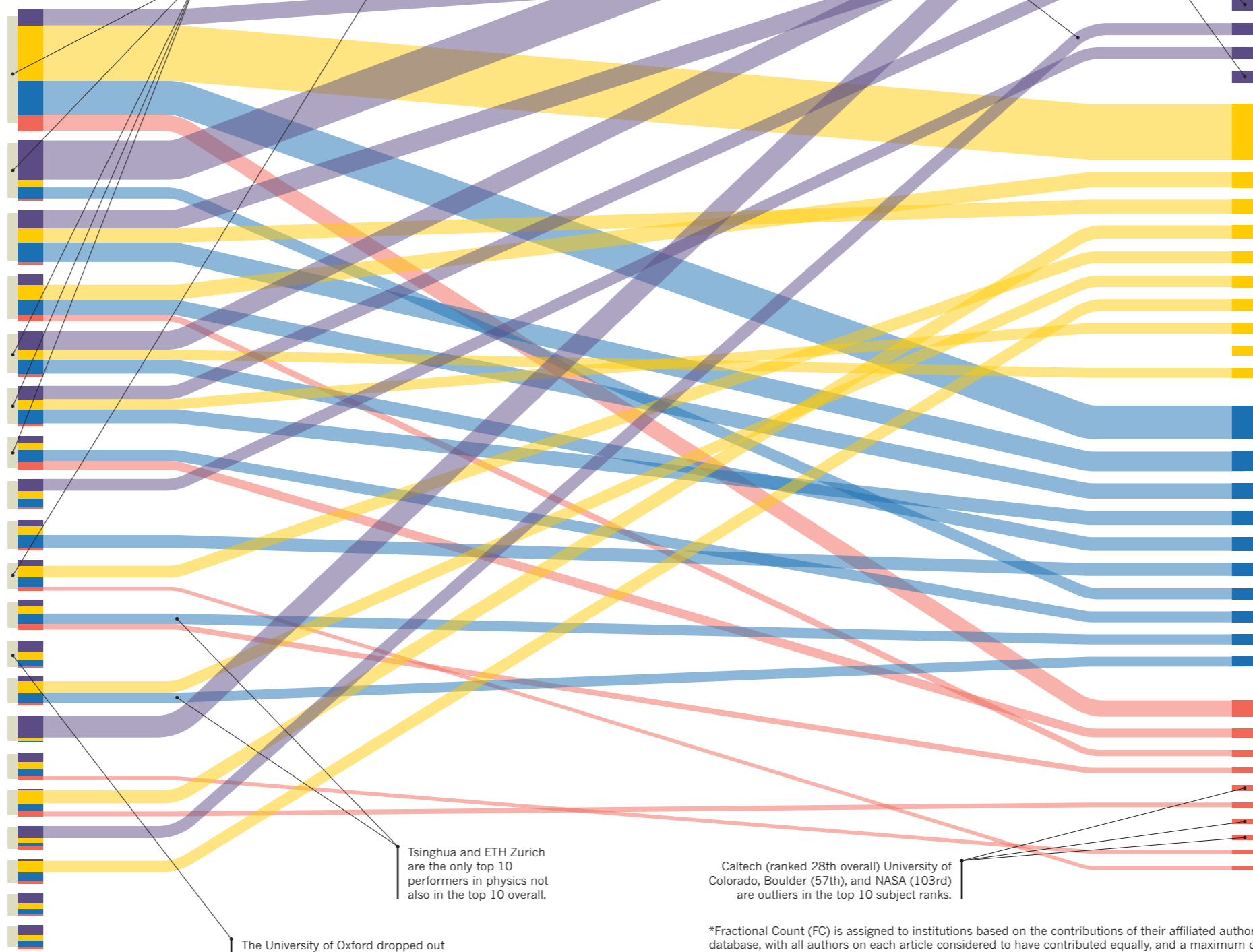
## 2018 GLOBAL TOP 20

1. Chinese Academy of Sciences FC 1,698.14
2. Harvard University 874.68
3. Max Planck Society 757.32
4. French National Centre for Scientific Research (CNRS) 689.86
5. Stanford University 622.01
6. Massachusetts Institute of Technology 560.28
7. Helmholtz Association of German Research Centres 483.23
8. University of Cambridge 437.83
9. The University of Tokyo 430.86
10. Peking University 411.85
11. Swiss Federal Institute of Technology Zurich 406.52
12. University of Oxford 403.77
13. Tsinghua University 392.96
14. National Institutes of Health 391.71
15. University of California, Berkeley 387.04
16. Nanjing University (NJU) 386.91
17. Yale University 344.22
18. University of Science and Technology of China 343.45
19. University of Michigan 337.66
20. University of California, Los Angeles 330.32

## CHANGE IN TOTAL FC\*\* 2017-18 (%)

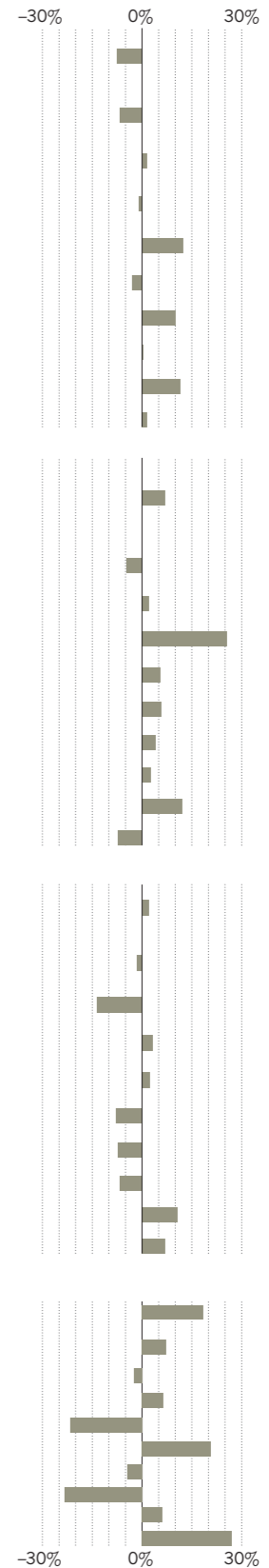


## FC\* BY SUBJECT



## SUBJECT FC

## CHANGE IN SUBJECT FC\*\* 2017-18 (%)



## TOP 10 BY SUBJECT

- Harvard U 621.64
- NIH 348.12
- Stanford U 300.65
- Max Planck Society 292.64
- CAS 252.84
- MIT 208.54
- University of California, San Francisco 200.65
- Yale U 192.08
- Cambridge 187.76
- University of Pennsylvania 186.31
- CAS 881.87
- CNRS 240.53
- Max Planck Society 223.91
- NJU 207.77
- PKU 189.09
- Tsinghua U 183.83
- USTC 182.53
- MIT 164.31
- Northwestern University 158.11
- Stanford U 158.02
- CAS 534.99
- Max Planck Society 310.15
- CNRS 242.70
- MIT 223.34
- Stanford U 218.87
- UTokyo 203.76
- Harvard U 178.13
- Helmholtz 173.44
- ETH Zurich 162.88
- Tsinghua U 157.64
- CAS 256.85
- Helmholtz 140.93
- CNRS 100.04
- ETH Zurich 89.45
- NASA 85.74
- NJU 76.85
- CU-Boulder 66.70
- Caltech 64.64
- UC Berkeley 61.70
- PKU 60.27

Yale makes its only top 10 subject appearance in the life sciences. It gained 7 places from 2017 to rank 17 in the top 100 overall.

Life sciences is the only top 10 appearance for UCSF (ranked 44th overall) and U.Penn (26th overall)

Among the top 10 ranks, positions 1, 2, 5, 6 and 7 are unchanged since 2015.

Peking University debuted in the global top 10 in 2018.

Tsinghua and ETH Zurich are the only top 10 performers in physics not also in the top 10 overall.

Caltech (ranked 28th overall) University of Colorado, Boulder (57th), and NASA (103rd) are outliers in the top 10 subject ranks.

The University of Oxford dropped out of the top 10 global institutions in 2017.

**CORRECTION**

In the Nature Index 2019 Annual Tables (*Nature* **570**, S1–S6; 2019) the fractional counts, percentage changes and article counts used for the tables were incorrect, which affected the rankings of some institutions. The updated data, graphics and rankings can be found online at <https://www.nature.com/collections/fbfjafhcb>.