
Nanotechnology Publications of 2018: An Overview

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Approximately 166,000 nano-articles were indexed in the Web of Science (WoS) in 2018, comprising around 10% of the total. Among the different branches of science, chemistry, materials, and physics had respectively the largest shares of the indexed nano-articles. China, the United States, and India were the three leading countries in the publication of nano-articles the same as last year.

StatNano, a comprehensive statistical database portal, which has been compiling and releasing the data and statistics related to nanotechnology using [scientific methodologies](#) since 2010, is today one of the most reliable references of researchers and policymakers around the world. The statistics of the nano-articles published by each country are reported by StatNano on a monthly basis, which collects them by searching the appropriate [terms](#) in the search engine of the WoS.

Accordingly, in 2018, more than 166,000 articles related to nanotechnology were published, indicating an increase of more than 7% compared to the corresponding period last year. In addition to research articles, over 9,000 review articles were also published in the past year, which comprise nearly 5% of all nanotechnology publications.

In 2018 compared with 2017, the top 5 countries of the world in nanoscience generation remained on their previous spots; among the rest of the countries on the list, however, England moving up one place surpassed [France](#), [Saudi Arabia](#) and [Taiwan](#) switched spots, and [Egypt](#) with a three-step climb could rank among the top 20 countries in this area.

The top 20 countries based on their number and share of nano-articles carried in 2018

Rank	Country	Nano-articles	Share (%)
1	China	65,594	39.47
2	USA	24,514	14.75
3	India	14,036	8.45

4	Iran	9,662	5.81
5	South Korea	9,372	5.64
6	Germany	8,448	5.08
7	Japan	7,381	4.44
8	UK	5,667	3.41
9	France	5,412	3.26
10	Russia	5,309	3.19
11	Spain	4,518	2.72
12	Italy	4,227	2.54
13	Australia	4,122	2.48
14	Canada	3,603	2.17
15	Saudi Arabia	3,109	1.87
16	Brazil	3,075	1.85
17	Taiwan	2,885	1.74
18	Turkey	2,491	1.50
19	Poland	2,438	1.47
20	Egypt	2,235	1.34

As in the past years, the share of nano-articles in the total scientific publications has still been growing. In 2018, around 9.7% of the total scientific publications were related to nanotechnology, which has been the highest since 2014.



The share of nano-articles in the total articles published worldwide in each year from 2011 to 2018.

In terms of local share, which is the ratio of the nano-articles carried in a country to the total articles of that country, [Iran](#), [Saudi Arabia](#), [China](#), and [India](#), took the top 4 places on the list compiled using this indicator, respectively. [Iraq](#) having only 463 nano-articles in 2018, which interestingly comprises nearly 17% of its total scientific publications in this year, could surprisingly reach the 5th spot on this list.

The top 15 countries ranked in order of their local share of nano-articles in 2018

Rank	Country	Local Share (%)
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1	Iran	22.03
2	Saudi Arabia	18.82
3	China	17.33
4	India	17.24
5	Iraq	16.90
6	Singapore	16.02
7	South Korea	15.43
8	Belarus	14.80
9	Egypt	14.77
10	Malaysia	13.62
11	Vietnam	13.29
12	Pakistan	12.31
13	Taiwan	12.01
14	Ukraine	11.84
15	Russia	11.38

Given the subject matter of the nano-articles published in 2018, the greatest number of the articles were run in the fields of chemistry, materials science, physics, and engineering science, respectively. The four journals of *ACS Applied Materials & Interfaces*, *Applied Surface Science*, *RCS Advances*, and *Nanoscale* had the largest shares in the publication of nano-articles in this year. The Chinese Academy of Sciences, Islamic Azad University from [Iran](#), the Russian Academy of Sciences, and Tsinghua University from [China](#) carried the largest number of nano-articles last year.