

Which Countries Have Published the Largest Number of Nano-articles in Q1 Journals?

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More than half of the world's nano-articles in 2021 were published in Q1 journals. China, the United States and South Korea possess the largest share of these articles, respectively.

According to Statnano, in 2021, nearly 213,000 nano articles were indexed in the Web of Science (WoS) database, of which more than half (51%) were published in the first quarter journals in terms of impact factor (known as Q1 journals); this proportion stood at about 37% for all the articles indexed in WoS in 2021. Alternatively stated, nano articles were published in more credible journals with a higher impact factor compared with the other articles.

The table below shows the number of nanotechnology articles published in Q1 journals for the top 25 countries based on this indicator. Nearly half of all the nano-papers published in Q1 journals by 2021 were published by Chinese researchers. Following [China](#), the [United States](#) and [South Korea](#) are in the next places. [India](#) and [Germany](#) were ranked fourth and fifth, respectively, in this indicator, and [Iran](#) was the sixth country.

Ranking	Country	Q1 nano-articles	Proportion of Q1 nano-articles in the total number of nano-articles (%)
1	China	53,479	62.4
2	USA	15,031	64.7
3	South Korea	6,977	67.4
4	India	6,372	33.5
5	Germany	5,592	62
6	Iran	4,195	37.5
7	UK	4,079	65.7
8	Japan	4,007	51.8
9	Spain	3,479	69.3
10	Australia	3,475	69.7

11	France	3,335	57.8
12	Saudi Arabia	3,332	48.3
13	Italy	3,070	62.2
14	Canada	2,608	63
15	Taiwan	2,446	63.2
16	Russia	2,339	28
17	Egypt	2,001	42.1
18	Poland	1,864	61.4
19	Pakistan	1,781	43
20	Singapore	1,702	72.9
21	Brazil	1,688	43.5
22	Turkey	1,420	36
23	Malaysia	1,348	48.3
24	Switzerland	1,336	68.1
25	Netherlands	1,326	66.5

About 73% of all Singaporean nanotechnology articles were published in Q1 journals in 2021, ranking first among these countries. [Australia](#) and [Spain](#) are in the second and third places, respectively, at just over 69%. These countries, along with the [Netherlands](#) and [Switzerland](#), are among the countries that usually have the highest average impact factor for their nano-articles. In contrast, [Russia](#), [India](#) and [Turkey](#) published a smaller number of nano-articles in Q1 journals.

The chart below also indicates the ranking of these countries in terms of the number of nano articles and the proportion of Q1 articles to their total nano articles.



Source:

[Nanotechnology publications in Q1 journals indicator](#)

[Share of Q1 nanotechnology publications indicator](#)