

## Vietnam Ranks Tenth in Asia-Pacific International Academic Publications

Nature Research's ranked Vietnam tenth in Asia-Pacific publications appearing in leading scientific journals from January 1 to December 31, 2019. Vietnam has held this position since 2017.

### 2020 tables: Countries/territories

Table criteria

Region: Asia Pacific Subject/journals: All Generate

The 2020 tables are based on Nature Index data from 1 January 2019 to 31 December 2019.

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2019	Country/territory	Share 2018	Share 2019	Count 2019	Change in Adjusted Share 2018-2019 *
1	China	11372.26	13566.11	18026	15.4% ↑
2	Japan	3082.69	3024.32	4905	-5.1% ↓
3	South Korea	1349.94	1435.23	2419	2.8% ↑
4	Australia	1254.34	1259.95	2986	-2.8% ↓
5	India	962.13	1041.49	1655	4.7% ↑
6	Singapore	606.42	607.95	1254	-3.0% ↓
7	Taiwan	393.18	371.77	931	-8.5% ↓
8	New Zealand	124.52	131.21	443	1.9% ↑
9	Thailand	40.71	49	254	16.4% ↑
10	Vietnam	16.63	16.35	79	-4.9% ↓

Compared with the other Southeast Asian countries, Vietnam has dropped 4.9% since 2018 and now ranks below Singapore and Thailand, but above Indonesia, Malaysia, Philippines, Myanmar, Cambodia, Brunei, and Laos.

### Top 10 rising countries/territories

The table shows the top 10 rising countries/territories, ranked by change in adjusted Share\* from 2015 to 2019. Also listed are the country's Share and Count in 2019, percentage change in adjusted Share from 2015 to 2019, and global rank in the 2020 annual tables.

Click on column headers to sort

Rank	Country / Territory	Share 2019	Count 2019	Change in Adjusted Share* 2015-2019	Change in Adjusted Share* 2015-2019 (%)	2020 Annual Tables Rank
1	China	13566.11	18026	5267.70	63.5 %	2
2	Norway	228.73	736	63.52	38.4 %	26
3	Czech Republic	229.80	721	55.80	32.1 %	25
4	Russia	466.02	1414	46.37	11.0 %	18
5	Iran	112.21	293	37.33	49.8 %	33
6	Switzerland	1487.88	3270	30.65	2.1 %	8
7	Brazil	280.24	856	22.93	8.9 %	23
8	India	1041.49	1655	21.30	2.1 %	12
9	Austria	367.54	1135	20.15	5.8 %	22
10	Thailand	49.00	254	13.60	38.4 %	40

Some academics maintain that Malaysia has many times more international publications than Vietnam and the highest increase of all, but the Nature Index shows that Malaysia seems to focus more on quantity than quality, because their number of high-quality rated papers went down 13.7% compared to last year.

In the worldwide ranking of nations increasing the fastest in high-quality research, only Thailand reaches the top 10. Heading this ranking is China, followed by Norway and the Czech Republic. Thailand also shows a rapid increase in Chemistry related publications, ranked fourth.

### Top 10 rising countries/territories in chemistry

The table shows the top 10 rising countries/territories in chemistry, ranked by change in adjusted Share\* from 2015 to 2019. Also listed are the country's Share and Count in 2019, percentage change in adjusted Share from 2015 to 2019, and global rank in the 2020 annual tables.

Click on column headers to sort

Rank	Country / Territory	Share 2019	Count 2019	Change in Adjusted Share* 2015-2019	Change in Adjusted Share* 2015-2019 (%)	2020 Annual Tables Rank
1	China	7819.90	9385	2764.29	54.7 %	1
2	Russia	138.38	306	30.73	28.5 %	19
3	Austria	111.57	230	11.06	11.0 %	21
4	Thailand	19.82	51	10.86	121.0 %	37
5	Czech Republic	92.46	179	7.27	8.5 %	23
6	Australia	389.42	775	6.78	1.8 %	12
7	Norway	23.17	58	6.12	35.9 %	32
8	Slovenia	19.02	39	5.86	44.6 %	38
9	Switzerland	479.51	787	5.44	1.1 %	9
10	Luxembourg	5.27	18	4.27	429.1 %	49



*ABET evaluation experts at DTU*

The Nature Index also ranked thirty Vietnamese research institutes in 2019. The three leading ones are:

1. Vietnam Academy of Science and Technology
2. Duy Tan University
3. Hanoi University of Science and Technology

2019	Institution	Share 2018	Share 2019	Count 2019	Change in Adjusted Share 2018-2019 *
1	Vietnam Academy of Science and Technology (VAST), Vietnam	3.87	3.44	30	-14.0% ↓
2	Duy Tan University (DTU), Vietnam	0.66	3.09	12	355.3% ↑
3	Hanoi University of Science and Technology (HUST), Vietnam	2	1.83	3	-11.3% ↓
4	Vietnam National University, Hanoi (VNU), Vietnam	2.61	1.51	20	-44.2% ↓
5	Phenikaa University, Vietnam	-	1.48	3	N/A
6	International Centre for Interdisciplinary Science and Education (ICISE), Vietnam	0.29	1.28	5	326.1% ↑
7	Vietnam National University - Ho Chi Minh City (VNU-HCM), Vietnam	1.4	1.16	4	-19.5% ↓
8	Hospital for Tropical Diseases, Vietnam	0.4	0.41	6	-0.5% ↓
9	Le Quy Don Technical University, Vietnam	0.14	0.33	1	125.7% ↑
10	National Institute of Infectious and Tropical Diseases (NIITD), Vietnam	0.4	0.29	6	-30.5% ↓
11	Can Tho University (CTU), Vietnam	0.17	0.22	2	26.3% ↑
12	Hanoi Lung Hospital, Vietnam	-	0.2	1	N/A
13	Vinmec Healthcare System, Vietnam	0.02	0.17	1	947.9% ↑
13	Hanoi University of Natural Resources and Environment (HUNRE), Vietnam	-	0.17	1	N/A
14	Ton Duc Thang University (TDTU), Vietnam	0.89	0.16	2	-82.4% ↓
15	Nguyen Tat Thanh University (NTTU), Vietnam	-	0.16	3	N/A
16	Hospital for Dermato-Venereology, Vietnam	-	0.11	1	N/A
17	Vietnam Ministry of Science and Technology (MOST), Vietnam	-	0.09	4	N/A
18	Fulbright University Vietnam, Vietnam	0.06	0.07	1	24.4% ↑
18	Quy Nhon University (GNU), Vietnam	-	0.07	1	N/A
19	Cho Ray Hospital, Vietnam	-	0.04	1	N/A
20	University of Science and Technology of Hanoi (USTH), Vietnam	0.46	0.03	1	-93.4% ↓
21	University of Medicine and Pharmacy at Ho Chi Minh City, Vietnam	0.24	0.03	2	-88.2% ↓
22	Pham Ngoc Thach University of Medicine (PNT), Vietnam	0.01	0.03	1	222.4% ↑
23	Institute of Public Health in Ho Chi Minh City, Vietnam	-	0.02	1	N/A
24	Hanoi Medical University (HNU), Vietnam	-	0.01	3	N/A
25	National Institute of Nutrition, Vietnam	-	0	1	N/A
26	Vietnamese Academy of Forest Science (VAFS), Vietnam	-	0	1	N/A
27	Hanoi National University of Education (HNUE), Vietnam	0.04	0	1	-95.5% ↓
28	Hanoi University of Public Health (HUPH), Vietnam	-	0	1	N/A
29	Vietnam Military Medical University (VMMU), Vietnam	-	0	1	N/A
30	Vietnam Ministry of Health, Vietnam	-	0	1	N/A
30	Bach Mai Hospital, Vietnam	-	0	1	N/A
30	National Institute of Hygiene and Epidemiology (NIHE), Vietnam	-	0	1	N/A

A new addition to this year's top 10 is Phenikaa University, in fifth place.

Leaders by field in Vietnam are:

- Earth & Environmental Sciences: Hanoi University of Science and Technology
- Life Sciences: Hospital of Tropical Diseases
- Chemistry: National University Ho Chi Minh city

- Physical Sciences: Duy Tan University

2020 tables: Institutions - Earth & environmental sciences

Table criteria  
Region/country  
Vietnam  
Sector  
All  
Subject/Journals  
Earth & Environmental  
Generate

The 2020 tables are based on Nature Index data from 1 January 2018 to 31 December 2019.  
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2019 Institution	Score 2019	Score 2018	Count 2019	Change in Adjusted Score 2018-2019
1 Hanoi University of Science and Technology (HUST), Vietnam	0.6	0.5	5	16.0

2020 tables: Institutions - physical sciences

Table criteria  
Region/country  
Vietnam  
Sector  
All  
Subject/Journals  
Physical Sciences  
Generate

The 2020 tables are based on Nature Index data from 1 January 2018 to 31 December 2019.  
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2019 Institution	Score 2019	Score 2018	Count 2019	Change in Adjusted Score 2018-2019
1 Duy Tan University (DTU), Vietnam	0.6	0.5	8	20.0%

2020 tables: Institutions - life sciences

Table criteria  
Region/country  
Vietnam  
Sector  
All  
Subject/Journals  
Life Sciences  
Generate

The 2020 tables are based on Nature Index data from 1 January 2018 to 31 December 2019.  
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2019 Institution	Score 2019	Score 2018	Count 2019	Change in Adjusted Score 2018-2019
1 Ho Chi Minh City University of Science (HCMUS), Vietnam	0.4	0.3	0	1.7%

2020 tables: Institutions - chemistry

Table criteria  
Region/country  
Vietnam  
Sector  
All  
Subject/Journals  
Chemistry  
Generate

The 2020 tables are based on Nature Index data from 1 January 2018 to 31 December 2019.  
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2019 Institution	Score 2019	Score 2018	Count 2019	Change in Adjusted Score 2018-2019
1 Vietnam National University - Ho Chi Minh City (VNU-HCM), Vietnam	0.58	0.5	1	16.0%

The Nature Index also ranks the 500 leading universities and research institutes in 34 nations, with the US, China, and Germany contributing to more than 50% of the total.

TT	QG/VLT	Số Cơ sở NC	TT	QG/VLT	Số Cơ sở NC
1	USA	139	18	Austria	4
2	China	95	19	Taiwan	4
3	Germany	42	20	Singapore	3
4	UK	34	21	Russia	3
5	Japan	20	22	Denmark	3
6	France	18	23	Norway	3
7	Canada	15	24	Poland	3
8	Switzerland	14	25	Czech Republic	2
9	Australia	13	26	Finland	2
10	South Korea	12	27	New Zealand	2
11	Italy	12	28	Saudi Arabia	1
12	Netherlands	11	29	Hungary	1
13	India	11	30	Portugal	1
14	Spain	9	31	Mexico	1
15	Sweden	8	32	Brazil	1
16	Israel	6	33	Argentina	1
17	Belgium	5	34	Ireland	1



In the top 100 “emerging” research institutes, China leads with 84 schools, highlighting how high-quality research is developing so rapidly there. However, the number of emerging institutes in the US is still higher than that of China in three out of four fields: Earth & Environmental Sciences, Life Sciences and Physical Sciences.

The Nature Index tracks author addresses and relationships between research organizations and records Natural Science publications in 82 of the leading journals, selected by independent researchers.

TT	Quốc gia	Số lượng trường/viện
1	China	84
2	USA	4
3	South Korea	2
4	India	2
5	Russia	1
6	Germany	1
7	Singapore	1
8	Czech Republic	1
9	Switzerland	1
10	Norway	1
11	Austria	1
12	Netherlands	1

TT	QG/VLT	KH TĐ-MT	QG/VLT	KH Sự sống	QG/VLT	Vật lý	QG/VLT	Hóa học
1	USA	45	USA	52	USA	36	China	35
2	China	22	China	9	China	21	USA	31
3	UK	6	UK	8	Germany	7	Germany	8
4	Australia	5	Switzerland	6	UK	6	Japan	8
5	Canada	4	Germany	6	South Korea	6	UK	5
6	Switzerland	3	Japan	3	Japan	6	Singapore	2
7	Germany	3	Canada	3	France	3	South Korea	2
8	Japan	3	Israel	3	Switzerland	3	Switzerland	2
9	Denmark	2	Australia	2	Israel	2	India	1
10	France	2	France	2	Italy	2	Spain	1
11	Norway	2	Sweden	1	Singapore	2	France	1
12	Netherlands	1	Netherlands	1	Saudi Arabia	1	Australia	1
13	Singapore	1	Belgium	1	India	1	Canada	1
14	Spain	1	Singapore	1	Denmark	1	Saudi Arabia	1
15	--	--	Denmark	1	Russia	1	Russia	1
16	--	--	Spain	1	Canada	1	--	--
17	--	--	--	--	Spain	1	--	--

The Nature Index ranking is based on two indicators:

- Article Count (AC): absolute number of publications
- Fractional Count (FC) or Share: fractional contribution of each university, research institution, or hospital or nation. Among these, only the FC is used for this ranking.

The rankings are continuously adjusted to include only the twelve most recent months, by research institutes, countries/territories, emerging countries and emerging research institutes. In addition, rankings are calculated for:

- Earth & Environmental Sciences
- Life Sciences
- Physical Sciences
- Chemistry.

The Nature Index only surveys 82 journals and is normally considered a basic indicator of high-quality research in the natural, health and life sciences. Universities can achieve high rankings if they staff themselves with leading researchers.

*(Media Center)*