

TABLE 46-2-3: Impact of Covid-19 on Rankings - BIBLIOMETRICS and INTERNATIONAL Metrics

The pandemic has a direct effect on papers published and citations and international movement of students and faculty. The number of publications are about 2.5% of all output and a different output portrait (see **Background Data**). Some ranking scores are very close so this could make a difference. 2020 citations will not factor into rankings using journal impact. Some universities' rankings have been improved by their international student and faculty numbers. Check the individual links for each ranker for the full methodology.

	Applications	Publications	Citations	International Collaboration
1	THE World University Rankings - Scopus (*1)	Number of publications in academic journals /scholar, scaled by size and normalized by subject (6%)	Average number of citations per work normalized by subject (30%)	Proportion of research with >= international co-author normalized by subject (2.5%)
2	QS World University Rankings - Scopus (*2)		Bibliometrics	
3	ARWU - Academic Ranking of World Universities - Clarivate Analytics	Papers in <i>Nature</i> and <i>Science</i> , accounting for multiple authors and articles indexed in SCI-E and SSCI with double credit given to SSCI (40%)	Highly cited researchers (20%)	
4	Nature Index	Primary research articles from 82 publications		
5	NTU Rankings - Performance Ranking of Scientific Papers for World Universities - Clarivate Analytics	Articles last 11 years(10%); articles current year (15%)	Citations last 11 years (15%); citations last two years (10%); average number of citations 11 years (10%);Highly cited papers 11 years (5%)	
6	U.S. News Global - Clarivate Analytics	Papers, books, proceedings (WOS, including SCI-E, SSCI and A&H) (15%)	Normalized citation impact (10%); normalized total citations (7.5%);number and percent top 10% cited (22.5%); percent top 10% cited; number and percent top 1% cited(10%)	Proportion of total papers with international co-author (5%) proportion of institution's co-author papers compared to country's international co-authored

7	CWTS Leiden Rankings - Clarivate Analytics	WOS articles and reviews written in English in about 15000 "core " journals) (SCI-E, SSCI and AHCI)	Citation metrics only available in downloaded dataset	Number and percent of papers co-authored in two or more countries
8	Ranking Web of Universities (Webometrics) -Google Scholar and Scopus		Number of citations from top 210 authors from Google Scholar(10%); number of papers amongst top 10% of most cited in 26 SCImago (SJR) disciplines (35%)	
RANKINGS NEEDING EVALUATION				
9	World University Research Rankings- WURR- Clarivate Analytics	% multi-disciplinary documents; percent documents in Q1 and top one percent (14%)	Category normalized citation impact (14%)	Percent international collaboration (14%)
	University Rankings by Academic (URAP) from Incites all Bibliometrics	Articles from top 75% JCR journals (21%); all documents (10%)	Citation for top 75% JCR journals (21%); URAP normalized impact (18%); citation impact total (14%)	Citations from international collaboration (15%)
11	Round University Rankings RUR (*11)	Papers per academic/research staff (8%)	Citations per academic and research staff (8%); Normalized CI (8%);	International co-authored papers (2%)
NOTES:				
SCImago is not included since it changed its methodology, incorporating metrics from Webometrics. Ruth's Rankings has not evaluated the new methodology				
*Three rankings include international students and staff - data that will also be effected by Covid: THE (1), QS(2), and RUR(11)				
1	THE - Proportion of International students and staff - 5%			
	https://www.timeshighereducation.com/world-university-rankings/world-university-rankings-2020-methodology			
2	QS -Ratios of international faculty and students (10%)			
	https://www.topuniversities.com/qs-world-university-rankings/methodology			
3				
	http://www.shanghairanking.com/ARWU-Methodology-2020.html			
4				
	https://www.natureindex.com/faq#methodology			
5				
	http://nturanking.csti.tw/methodologyg/indicators			
6				
	https://www.usnews.com/education/best-global-universities/articles/methodology			
7	CWTS Leiden - No composite; size dependent and independent; Collaboration also by distance >5000K but could be inter-country. For			

	example, U Hawaii Manoa is 2 in world for >5000K and over 200 for international collaboration.	
	https://www.leidenranking.com/information/indicators	
8	https://www.webometrics.info/en/Methodology	
9	WURR -7 metrics each worth 1/7th (14.3%)	
	https://worldresearchranking.com/methodology/	
10	https://urapcenter.org/Rankings/2020-2021/World_Ranking_2020-2021	
11	RUR - International students and staff -4%	
	https://roundranking.com/methodology/methodology.html	