

## XSEDE Scientific Impact Metrics for the Period between Nov 1, 2018 - Jan 31, 2019

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### 1.1. Scientific Impact Metrics (SIM)

This appendix presents the current Scientific Impact Metrics data as of January 31 of year 2019. This is part of the *XD Metrics Service (XMS)* (formerly *NSF Technology Audit Service (TAS)*) effort.

#### *1.1.1. Summary Impact Metrics*

Table SIM-1 shows the essential scientific summary impact metrics as of January 31 of year 2019. The increasing values for each metric are listed in the table indicating the changes during the last quarter. By calculating such metrics periodically we can show the trends, as depicted in Figure SIM-2 and Figure SIM-3. Both show steadily increasing trends.

Table SIM-1: Overall Scientific Impact Metrics Data

	Number of externally verified unique publications*	i10-index (Number of publications cited at least 10 times)	Overall citation count*	h-index	g-index
Since 2005 (TG+XD)	15,023	6,996	357,676	194	351
Since 2011 (XD)	12,536	5,160	222,181	145	252
Change from last quarter (TG+XD)	+534	+344	+21,296	+5	+10
Change from last quarter (XD)	+518	+337	+19,374	+7	+13
* Data updated as of Jan 31 <sup>th</sup> , 2019.					

### 1.1.2. Historical Trend

Figure SIM-2 and SIM-3 show the increasing quarterly trend regarding publications, citations, and other impact metrics such as H-Index and G-Index. Both suggest the increasing impact of XSEDE during the past years, based on verified unique publication count; citation count; H-index and G-index.

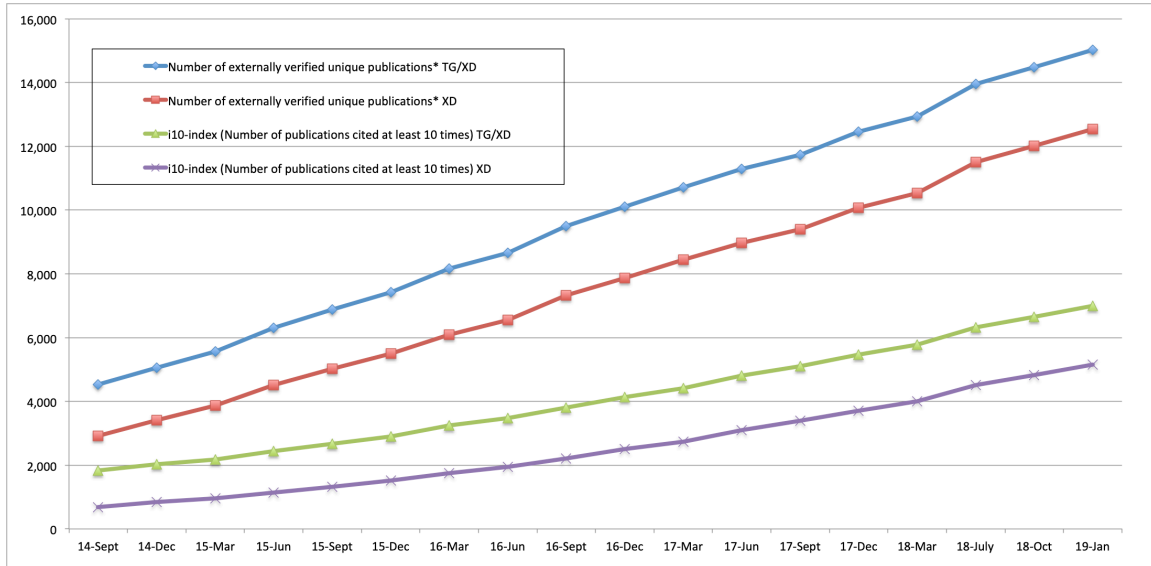


Figure SIM-2. Counts of all externally verified publications for TG/XD (since 2005) and XD (since 2011) and of those being cited at least 10 times (i10-index).

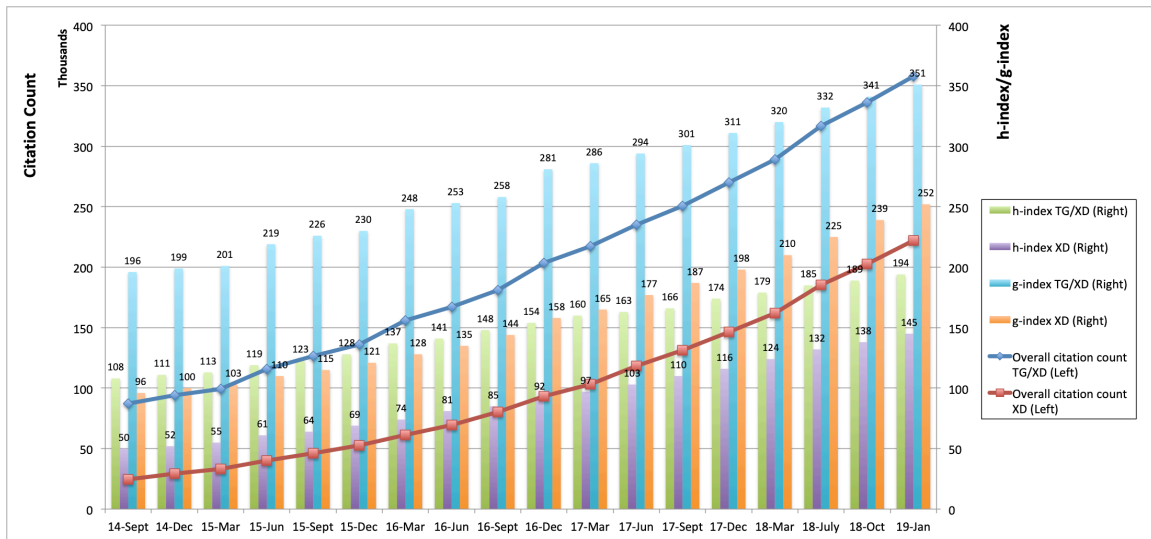


Figure SIM-3. Accumulated citation count (line, left axis) as well as h-index and g-index metrics (bar, right axis) for TG/XD (since 2005) and XD (since 2011).