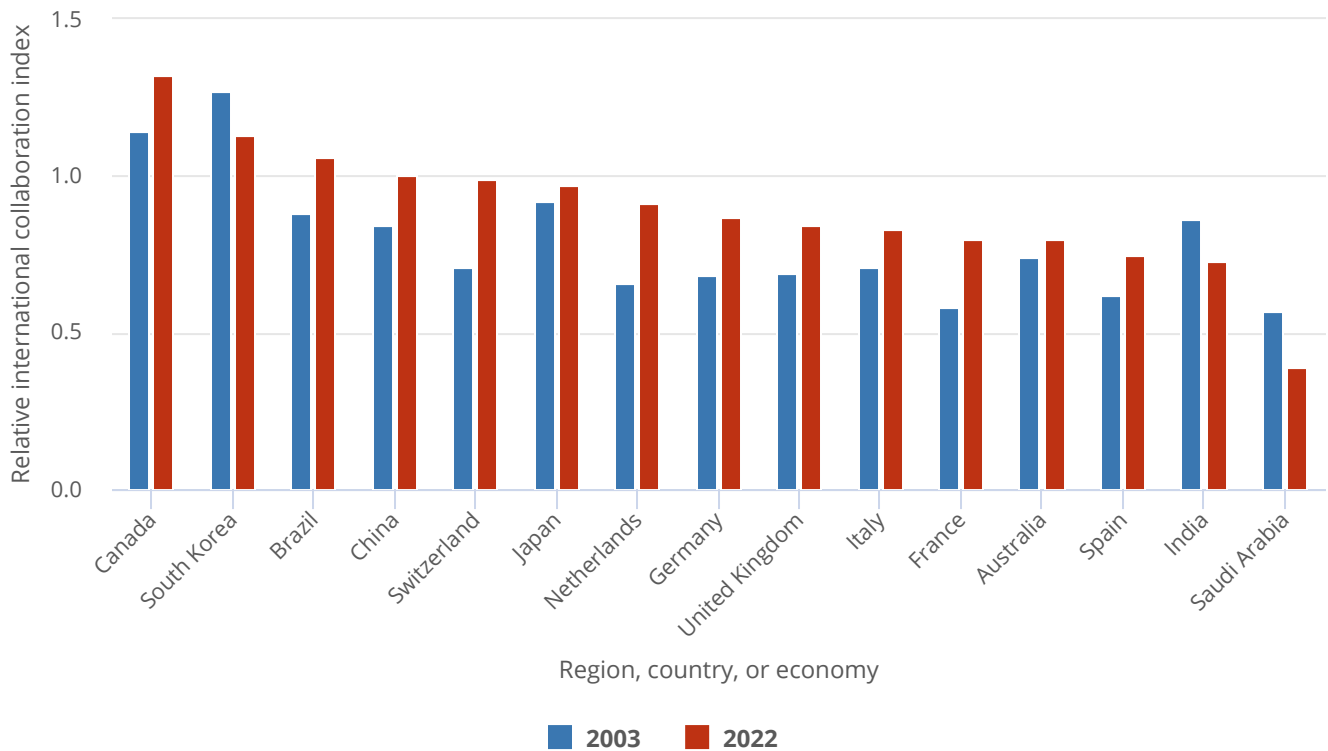


Figure PBS-15

Relative international collaboration index of selected large-producing regions, countries, or economies with the United States: 2003 and 2022

**Note(s):**

Article counts for computing the index refer to publications from a selection of conference proceedings and peer-reviewed journals in S&E fields from Scopus. Articles are classified by their year of publication and are assigned to a region, country, or economy on the basis of the institutional address(es) of the author(s) listed in the article. Articles are credited on a whole count basis (i.e., each collaborating region, country, or economy is credited with one count). Regions, countries, or economies that have contributed to less than 1% of all internationally coauthored articles in 2022 are omitted. The index of collaboration is calculated as follows:  $IC_{xy} = (C_{xy} / C_x) / (C_y / C_w)$ , where  $IC_{xy}$  is the index of collaboration between country  $x$  and country  $y$ ,  $C_{xy}$  is the number of publications coauthored between country  $x$  and country  $y$ ,  $C_x$  is the total number of international coauthorships by country  $x$ ,  $C_y$  is the total number of international coauthorships by country  $y$ , and  $C_w$  is the total number of international coauthorships in the database. For additional regions, countries, or economies, see Table SPBS-38.

**Source(s):**

National Center for Science and Engineering Statistics; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed April 2023.

*Science and Engineering Indicators*