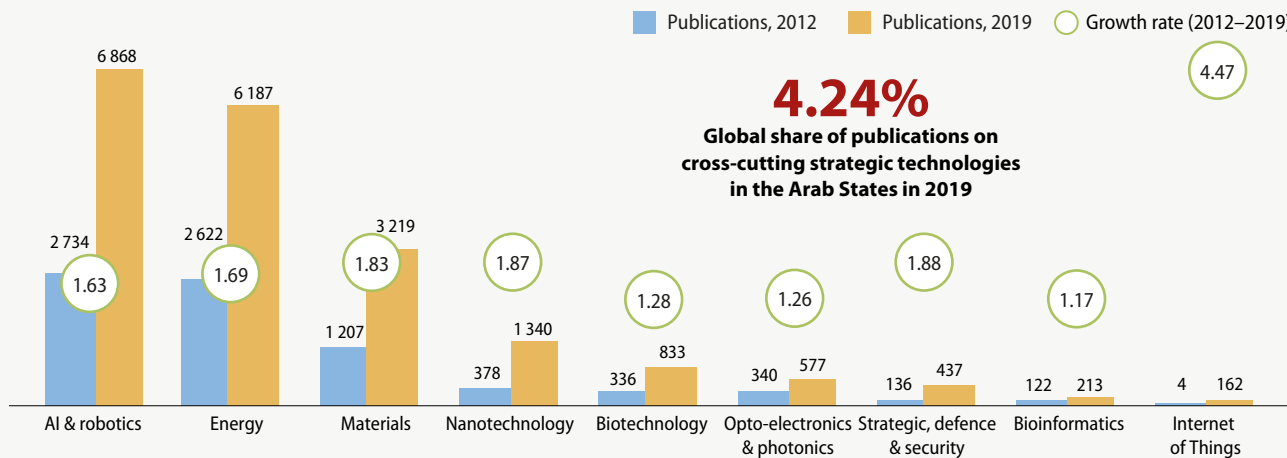




Figure 17.8: Trends in publishing on cross-cutting strategic technologies in the Arab States

Volume of scientific publications on cross-cutting technologies in the Arab States, 2012 and 2019



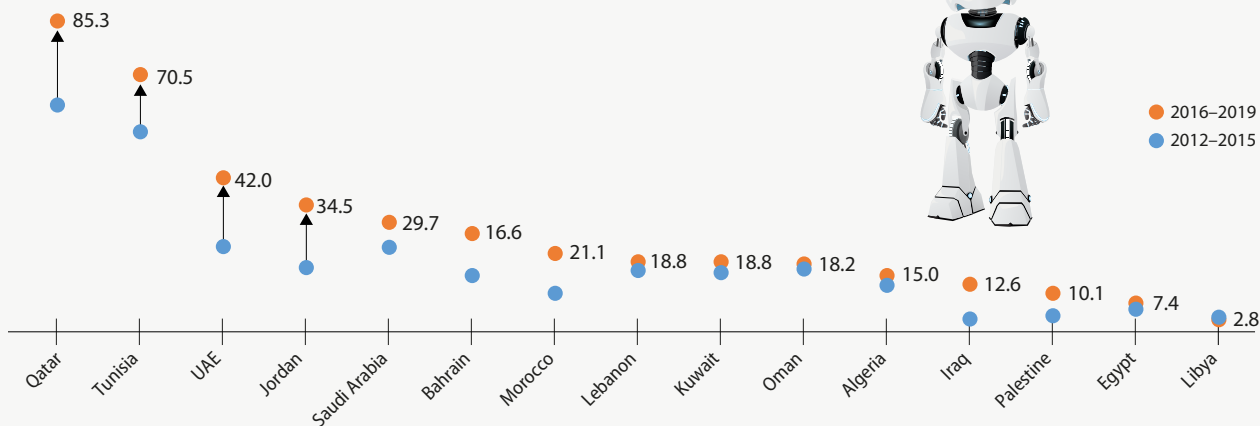
From 2011 to 2019, Saudi Arabia (26%) and Egypt (20%) accounted for the largest shares of publications on cross-cutting strategic technologies in the Arab States.

Iraq's contribution to regional output on cross-cutting strategic technologies tripled from 3% over 2012–2015 to 9% over 2016–2019.

5 977
Publications on AI & robotics by Tunisian researchers over 2011–2019, the leader by volume among Arab countries

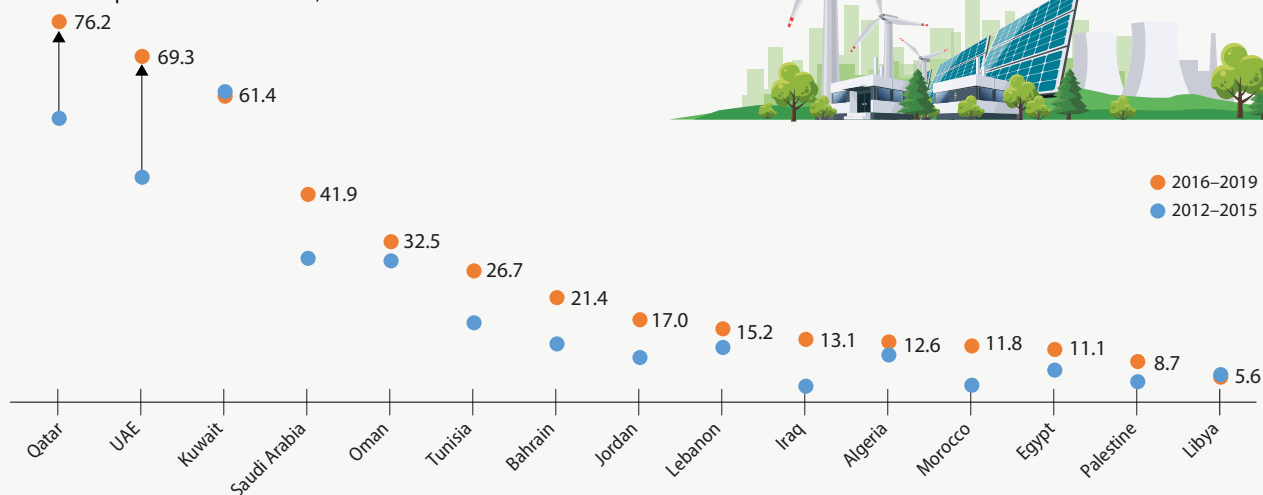
Top 15 Arab countries by publication intensity on AI & robotics, 2012–2015 and 2016–2019

Publications per million inhabitants, data labels are for 2016–2019



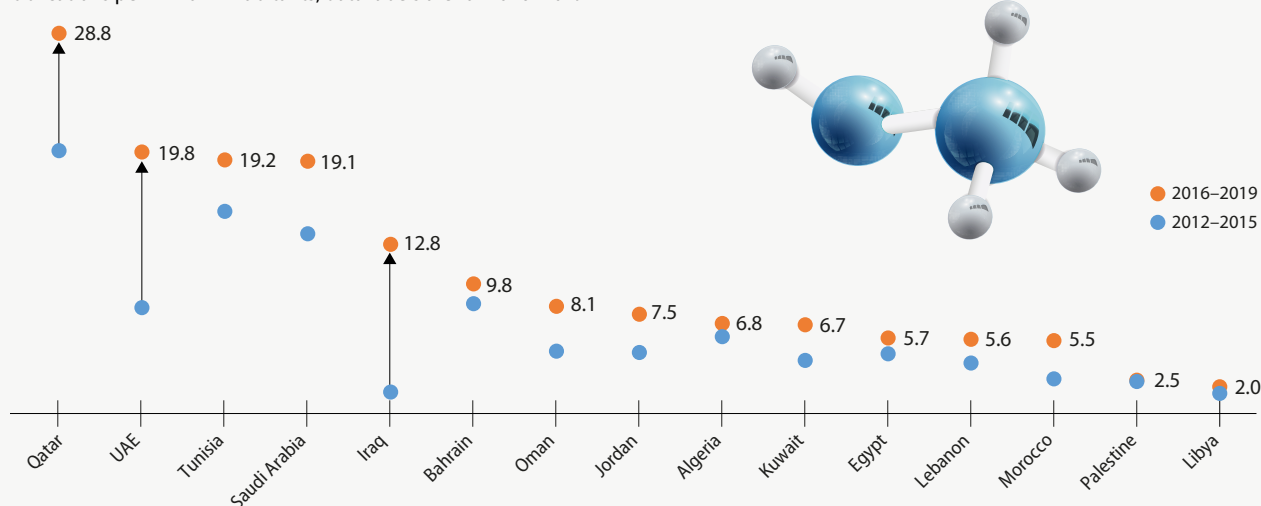
Top 15 Arab countries by publication intensity on energy, 2012–2015 and 2016–2019

Publications per million inhabitants, data labels are for 2016–2019



Top 15 Arab countries by publication intensity on materials science, 2012–2015 and 2016–2019

Publications per million inhabitants, data labels are for 2016–2019



Note: Countries produced the greatest output on these three cross-cutting strategic technologies: AI and robotics, energy and materials science. The growth rate was calculated as the number of publications during 2016–2019 divided by the number of publications during 2012–2015 to buffer the variability among individual years. See the statistical annex for complete data for all countries, freely available from the *UNESCO Science Report* web portal.

Source: Scopus (excluding Arts, Humanities and Social Sciences); data treatment by Science-Metrix