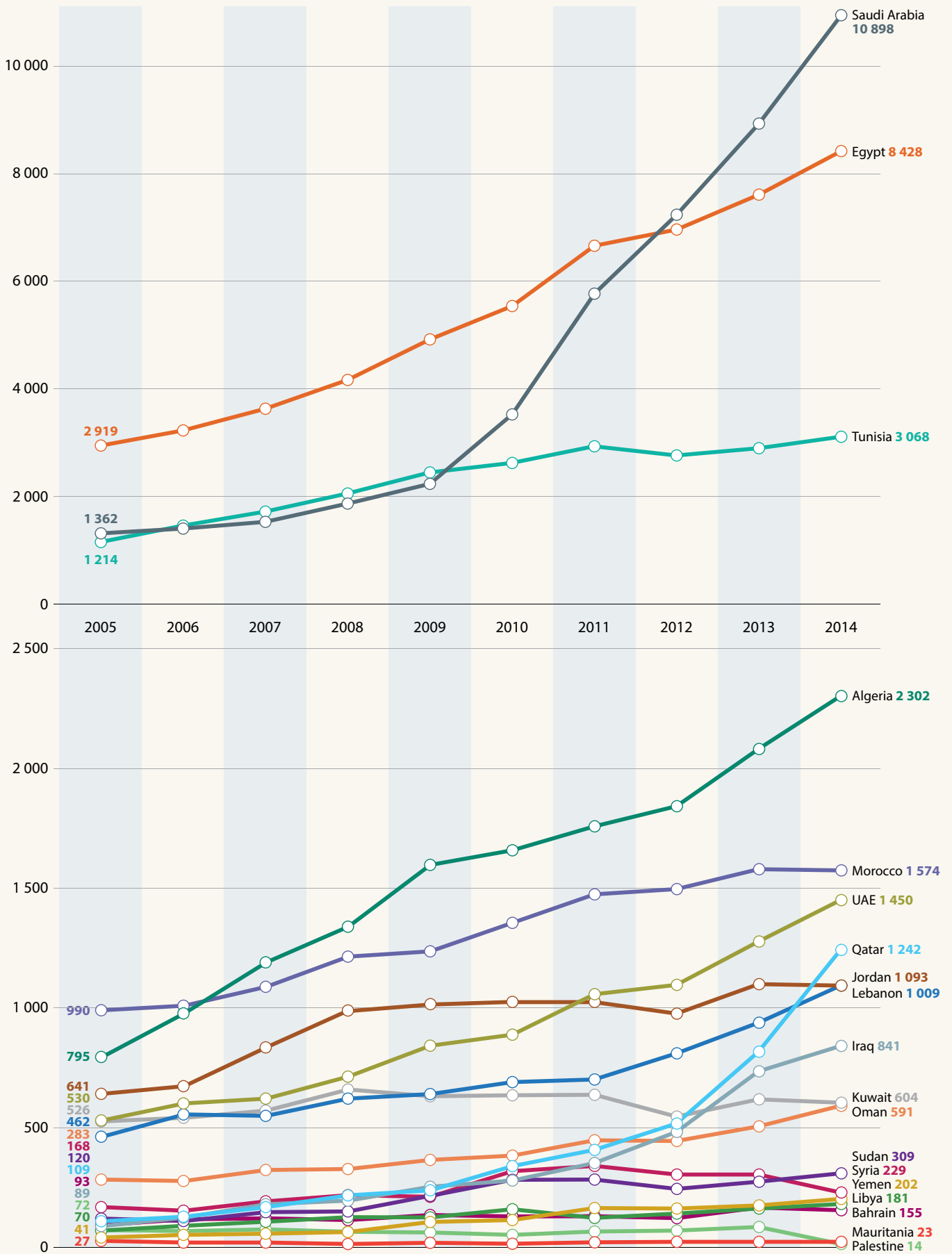


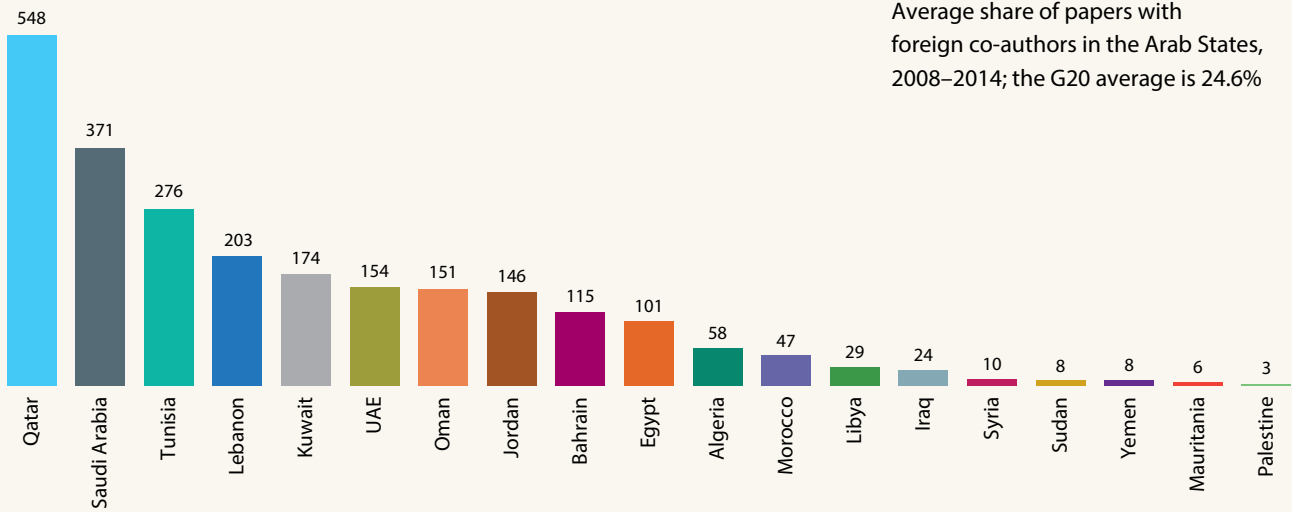
Figure 17.10: **Scientific publication trends in the Arab States, 2005–2014**

**Strong growth in Saudi Arabia, Egypt and Qatar**



## Qatar, Saudi Arabia and Tunisia have the highest publication intensity

Publications per million inhabitants in 2014

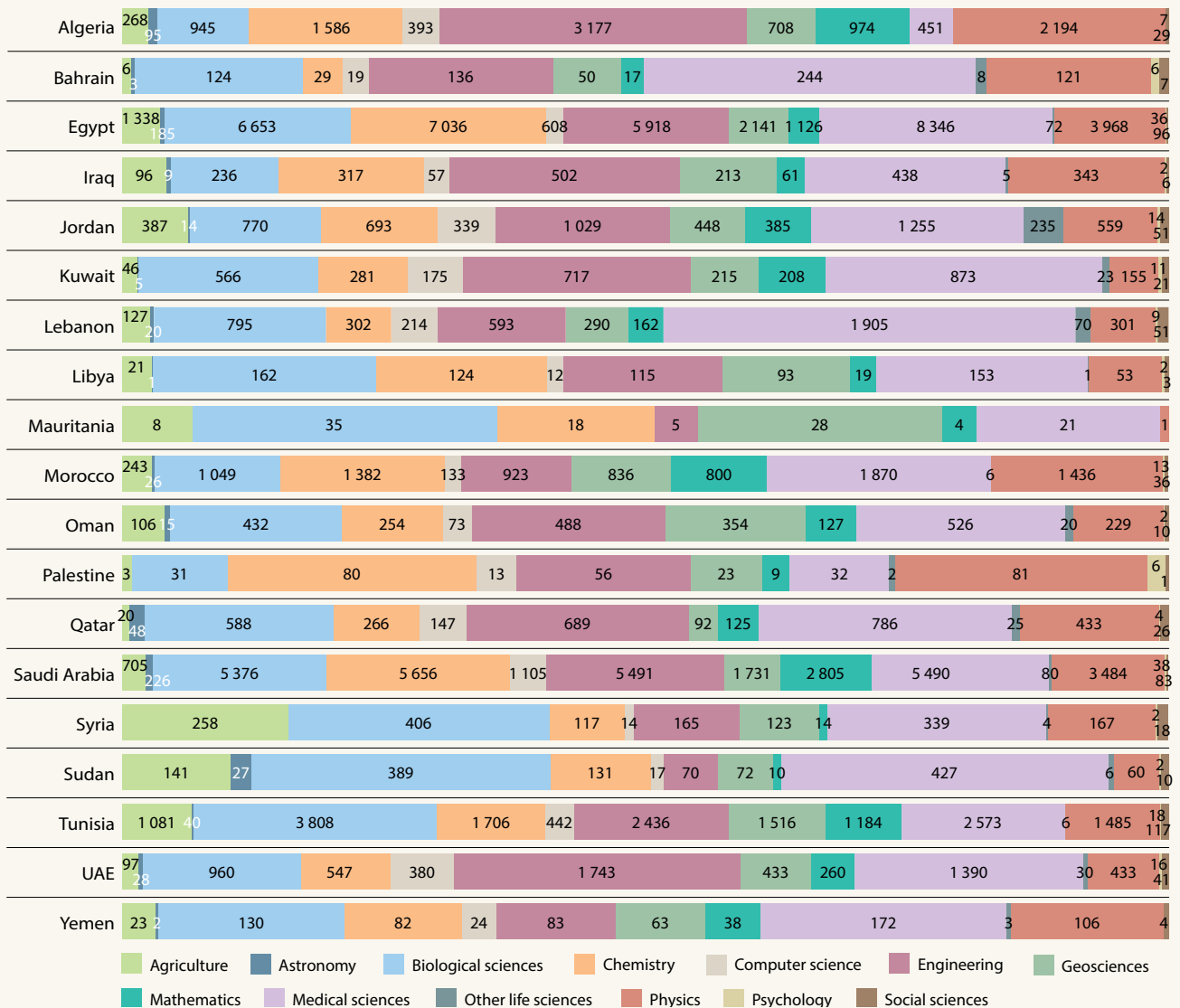


# 67.2%

Average share of papers with foreign co-authors in the Arab States, 2008–2014; the G20 average is 24.6%

## The Arab States publish most in life sciences, followed by engineering and chemistry

Cumulative totals by field, 2008–2014



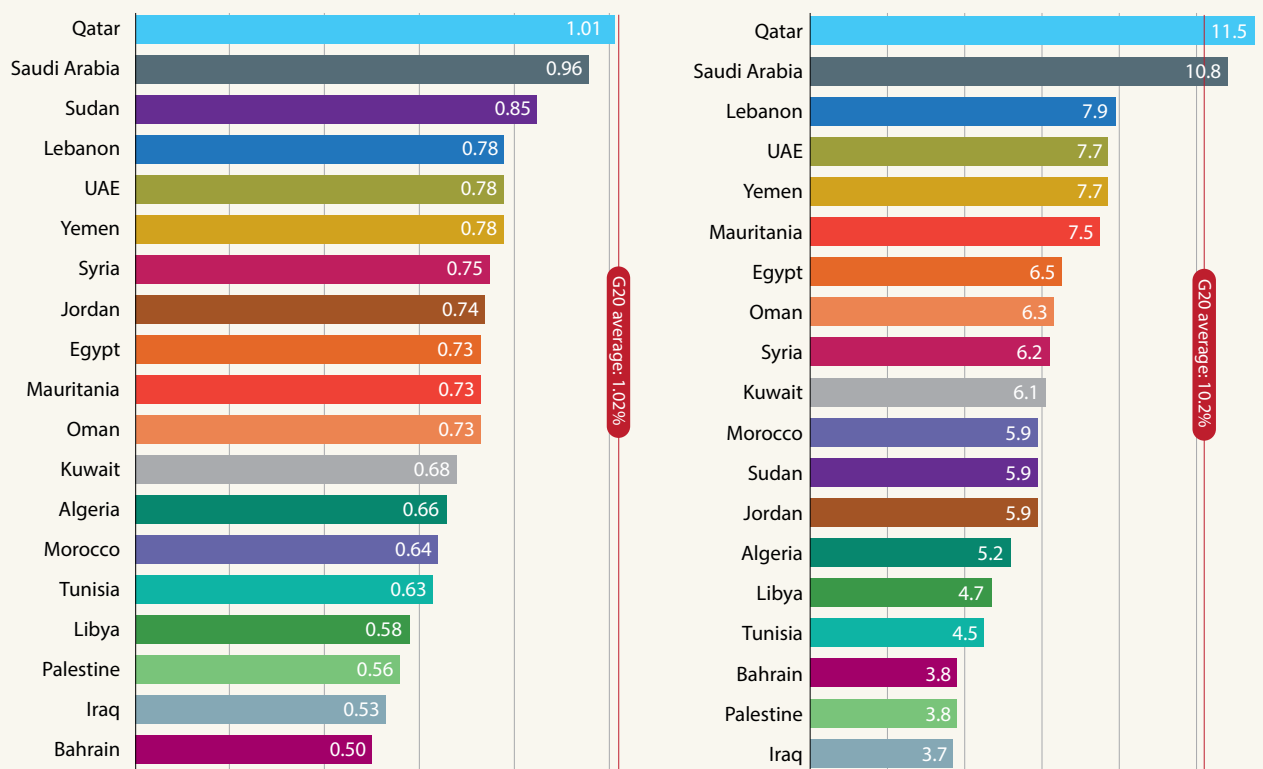
Note: The totals do not include unclassified publications, which make up a sizeable share in some cases: Saudi Arabia (8 264), Egypt (6 716), Tunisia (2 275), Algeria (1 747), Jordan (1 047), Kuwait (1 034) and Palestine (77).

Figure 17.10 (continued)

### Qatar and Saudi Arabia have the highest citation rate

Average citation rate for publications, 2008–2012

Share of papers among 10% most-cited, 2008–2012 (%)



### China has become a key collaborator for Iraq, Qatar and Saudi Arabia

Main foreign partners, 2008–2014

|                      | 1st collaborator     | 2nd collaborator   | 3rd collaborator   | 4th collaborator   | 5th collaborator   |
|----------------------|----------------------|--------------------|--------------------|--------------------|--------------------|
| Algeria              | France (4 883)       | Saudi Arabia (524) | Spain (440)        | USA (383)          | Italy (347)        |
| Bahrain              | Saudi Arabia (137)   | Egypt (101)        | UK (93)            | USA (89)           | Tunisia (75)       |
| Egypt                | Saudi Arabia (7 803) | USA (4 725)        | Germany (2 762)    | UK (2 162)         | Japan (1 755)      |
| Iraq                 | Malaysia (595)       | UK (281)           | USA (279)          | China (133)        | Germany (128)      |
| Jordan               | USA (1 153)          | Germany (586)      | Saudi Arabia (490) | UK (450)           | Canada (259)       |
| Kuwait               | USA (566)            | Egypt (332)        | UK (271)           | Canada (198)       | Saudi Arabia (185) |
| Lebanon              | USA (1 307)          | France (1277)      | Italy (412)        | UK (337)           | Canada (336)       |
| Libya                | UK (184)             | Egypt (166)        | India (99)         | Malaysia (79)      | France (78)        |
| Mauritania           | France (62)          | Senegal (40)       | USA (18)           | Spain (16)         | Tunisia (15)       |
| Morocco              | France (3 465)       | Spain (1 338)      | USA (833)          | Italy (777)        | Germany (752)      |
| Oman                 | USA (333)            | UK (326)           | India (309)        | Germany (212)      | Malaysia (200)     |
| Palestine            | Egypt (50)           | Germany (48)       | USA (35)           | Malaysia (26)      | UK (23)            |
| Qatar                | USA (1 168)          | UK (586)           | China (457)        | France (397)       | Germany (373)      |
| Saudi Arabia         | Egypt (7 803)        | USA (5 794)        | UK (2 568)         | China (2 469)      | India (2 455)      |
| Sudan                | Saudi Arabia (213)   | Germany (193)      | UK (191)           | USA (185)          | Malaysia (146)     |
| Syria                | France (193)         | UK (179)           | Germany (175)      | USA (170)          | Italy (92)         |
| Tunisia              | France (5 951)       | Spain (833)        | Italy (727)        | Saudi Arabia (600) | USA (544)          |
| United Arab Emirates | USA (1 505)          | UK (697)           | Canada (641)       | Germany (389)      | Egypt (370)        |
| Yemen                | Malaysia (255)       | Egypt (183)        | Saudi Arabia (158) | USA (106)          | Germany (72)       |

Source: Thomson Reuters' Web of Science, Science Citation Index Expanded; data treatment by Science-Metrix