RESEARCH EXCELLENCE AND BEYOND

IN AN AGE OF GLOBALIZATION, WILL THE ASIAN ACADEMIC EMERGENCE CONTINUE IN COUNTRIES LIKE INDIA AND BEYOND?

ASIA EMERGENCE

MOST PROLIFIC RESEARCH COUNTRIES IN ASIA (2012-2016)

Using Scopus® data from 2012-2016, we used SciVal® to analyse and highlight the growth of Asia’s scholarly output which has grown from 913,671 publications in 2012 to 1,036,952 in 2016. This growth is spread across several countries with differing economic and political landscapes. Across Asia Pacific, most countries are seeing impressive growth. Interestingly, the countries with the most growth are not the usual suspects, like China and Japan. The scholarly output has grown globally in the recent years at the rate of 4.4% CAGR. Comparatively, China growth rate was lower at 2.6%, while BRICS and SAARC were much higher at 9.5% and 13.9% respectively, resulting BRICS overtaking the USA in 2010. To some extent, the BRICS and especially the SAARC’s fast growth can be attributed to India which grew its SAT Scholarly output by an average 13.9% annually over the period 2009-13+**.

India’s Scholarly output for 2012-2016

Grew at 8.0%

INDIA FOCUS

INDIA’S GROWING SCHOLARLY OUTPUT

India’s shares of world top cited papers (25%, 30%, 5% and 1%) have all increased by 0.5 to 0.8 percentage point between 2012 and 2016, demonstrating that India has not only grown in output but also in impact, especially in the highest influence percentiles.

INDIA’S RESEARCH AREAS

Based on SciVal data from 2012-16, we highlighted India’s strength and impact within the 7 research areas of Engineering, Medicine, Computer Science, Physics and Astronomy, Chemistry, Biochemistry including Genetics & Molecular Biology, and Material Science. These areas are particularly important as they reflect the global challenges and curiosities we see today.

IMPACT OF SCIVALEXPECT ON RESEARCH PERFORMANCE

| Universities with access to SciVal test produced more articles compared to Universities without access | 112 | 458 |
| Universities with access to SciVal test received more citations compared to Universities without access | 81 | 1,717 |
| Universities with access to SciVal test published more articles compared to Universities without access |

INDIA INSTITUTIONS

India is home to a range of research institutions and a majority of these are seeing a growing number of publications and authors. This growth is indicative of national push around research and innovation.

INDIA COLLABORATION

A significant portion of India’s research is collaborative internationally. Using SciVal to analyse data from 2012-16, India’s international collaboration resulted in papers which are cited much more highly than the world average.