

## Rapidly Improving: National Influence Increasing Quickly in Select Fields

**T**he table below lists the countries that showed the greatest increase in total citations in a specific field, comparing [ISI Essential Science Indicators](#)<sup>®</sup> data for 1991-April 2001 against data for 1991-June 2001. In the field of Geosciences, Bermuda exhibited a more than 17 % increase in total citations, compared with an increase in total citations of just 3.4% for the database as a whole between the two periods. Bermuda also registered a significant rise in citations in Plant & Animal Science. Slovakia showed up in three fields as coming on strong: Mathematics, Environment/Ecology, and Clinical Medicine. Its nearby neighbor Slovenia improved markedly in Microbiology. Iran, with a large number of papers and sizeable citations, showed rapid improvement in Physics. And South Korea—recently featured in [Science Watch](#) (Vol. 12, No. 3, May/June 2001, pages 1-2)—moved up over 7 % in total citations in both Neurosciences and Behavior as well as Immunology. South Korea has increased its world share of papers in the ISI database from just .1 % to over 1.7 % over the past two decades. An outsized gain in citations would be an expected result of greatly increased publications. Rounding out the list are: Pakistan in molecular Biology and Genetics, Bangladesh in Engineering, Vietnam in Chemistry, Lithuania in Biology & Biochemistry, and Armenia in Space Sciences, which includes both Astronomy/Astrophysics and Atmospheric Sciences. There's a story behind each, which can be examined in the national citation rankings of *ISI Essential Science Indicators*, which in turn link to the recent and highly cited papers behind these overall statistics. For example, Iran's increase in Physics is due in part to important work in string theory and nuclear physics.

Country	Field	Percent increase	Papers	Cites
LITHUANIA	Biology & Biochemistry	7.29	219	1074
VIETNAM	Chemistry	9.43	164	406
SLOVAKIA	Clinical Medicine	7.36	833	3225
BANGLADESH	Engineering	9.91	311	355
SLOVAKIA	Environment/Ecology	9.17	419	667
BERMUDA	Geosciences	17.27	45	842
SOUTH KOREA	Immunology	7.10	516	2550
SLOVAKIA	Mathematics	9.91	495	588
SLOVENIA	Microbiology	11.43	116	468
PAKISTAN	Molecular Biology & Genetics	10.06	57	547
SOUTH KOREA	Neuroscience & Behavior	7.21	998	5592
IRAN	Physics	10.14	718	1998
BERMUDA	Plant & Animal Science	10.37	65	713
ARMENIA	Space Science	6.85	148	468

For more information, please visit the following site:

<http://www.in-cites.com/countries/oct2001.html>