

**OVERVIEW:** Research and development is a critical contributor to innovation and long-term economic growth, and the United States has a long history of being a global leader. According to a new collaborative report from The Council of State Governments and Elsevier—"America's Knowledge Economy: A State-by-State Review"—the United States published more than 536,000 publications in 2013. Predictably, states with larger populations also tended to publish more. For example, California and New York were the top two producers from 2004 to 2013. From 2004 to 2013, a big chunk of United States publications—more than one-quarter—focused on the field of medicine. Over the same period, Massachusetts and California produced the most impactful research—also called field-weighted citation impact—among all states. This brief offers a state-specific snapshot of data pulled from the report. To read the full report, visit [www.csg.org/knowledgeeconomy](http://www.csg.org/knowledgeeconomy).

**1.69 PUBLICATIONS**

**PER 1,000 RESIDENTS, 2013**

U.S. Average: 1.70 publications per 1,000 residents

**FIELD-WEIGHTED CITATION  
IMPACT, 2004–13**

**1.42** Cited 42% more than  
global average

**MOST IMPACTFUL RESEARCH FIELD**

**MEDICINE** Cited **18% more** than  
the U.S. average



**TENNESSEE**

**TOP COLLABORATING  
STATE, 2004–13**

3,143 collaborations (4.3% of all of Alabama's publications)

**4<sup>TH</sup> AMONG ALL STATES**

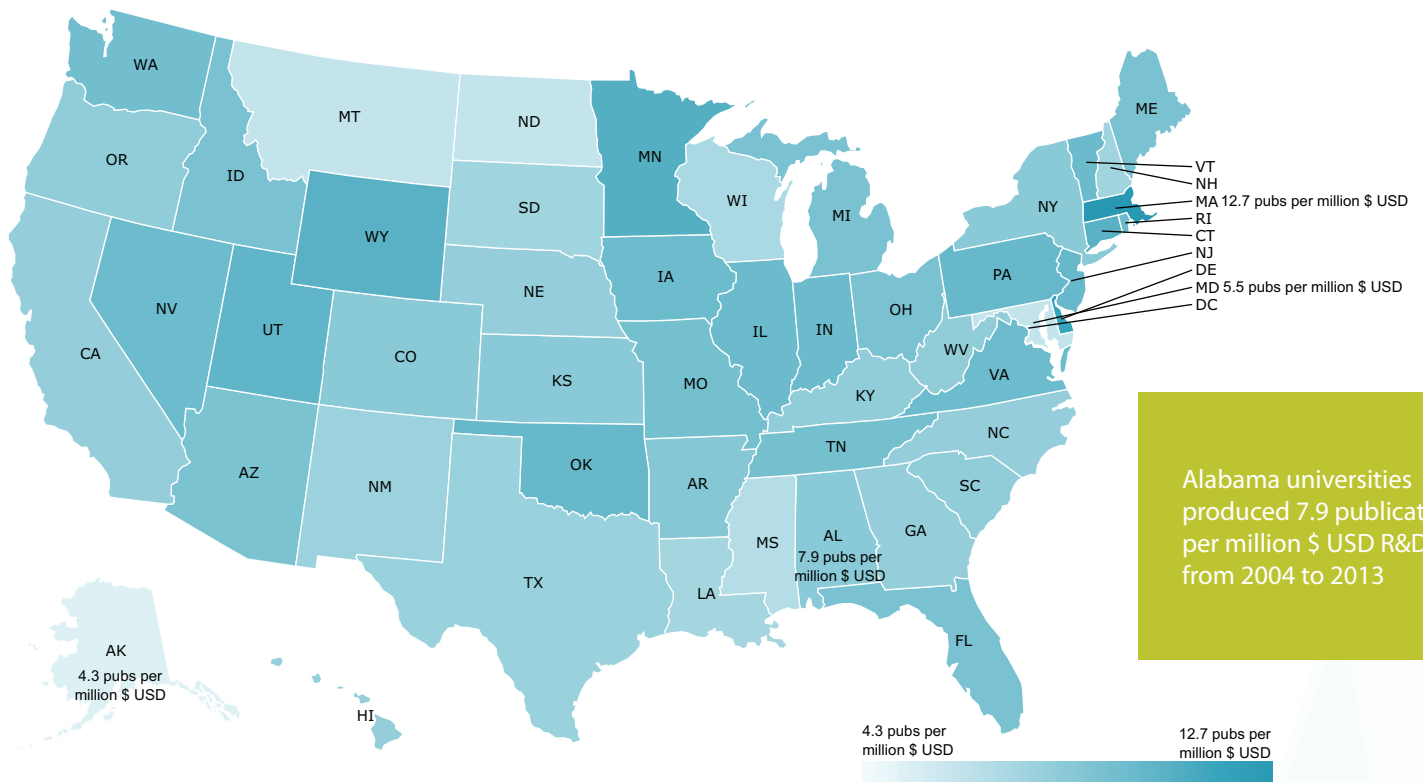
Growth in field-weighted citation impact  
across all fields, 2004–13

**INCREASING CRITICAL MASS OF RESEARCH IN NURSING, 2004–13**

**6<sup>th</sup> among all states in relative volume, Alabama's publication output in nursing  
grew 11.9% per year from 2004 to 2013.**

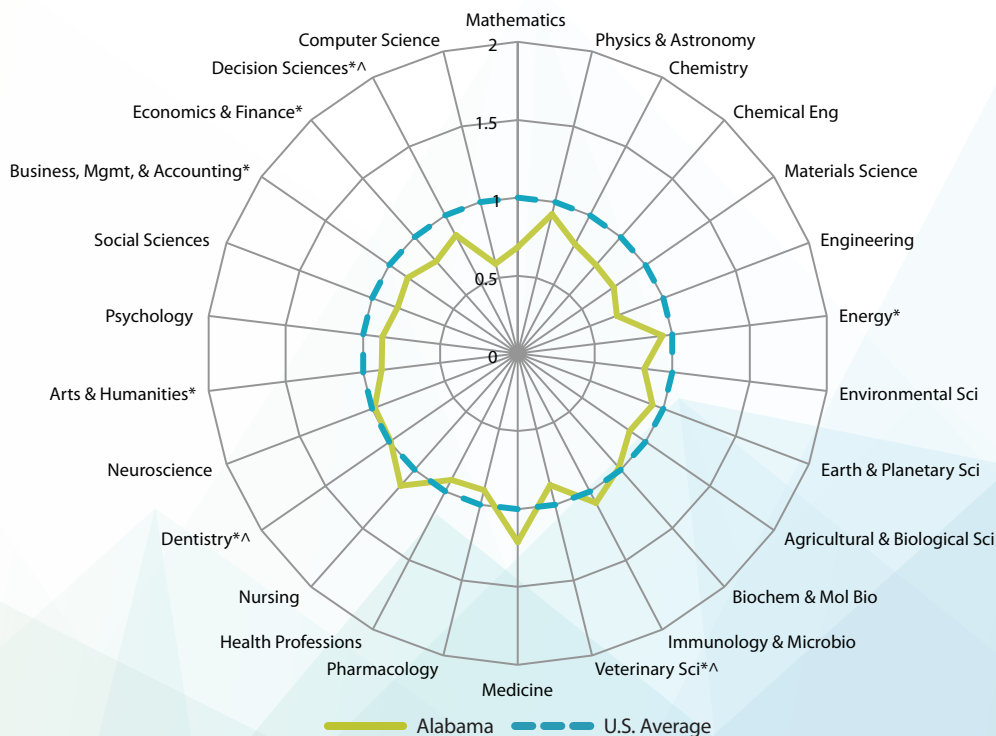
# America's Knowledge Economy: A State-by-State Review | ALABAMA

Number of academic publications per million \$ USD in higher education R&D expenditures for U.S. states, 2004–13 (in 2013 \$)



Source: Scopus® and NSF Higher Education Research and Development Survey

## Impact Across Research Fields, 2004–13



The field-weighted citation impacts of Alabama's research in medicine and nursing are above the U.S. average

\* and ^ indicate the state did not produce more than 100 publications in that research field for 2004 or 2013, respectively.

Source: Scopus®