



APPENDIX TABLE 5-46 

U.S. S&E articles, by field and coauthorship attribute: 2003–16

(Number)

Field and coauthorship attribute	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Agricultural sciences														
Total articles	5,035	5,705	5,628	5,802	6,491	6,347	6,282	6,295	6,232	6,397	6,467	6,583	7,079	6,938
with multiple institutions	3,516	3,994	4,028	4,155	4,648	4,540	4,607	4,532	4,636	4,831	4,988	5,165	5,394	5,653
with domestic institutions only	3,722	4,268	4,183	4,192	4,575	4,453	4,293	4,309	4,124	4,128	3,926	3,818	4,192	3,862
with international institutions	1,257	1,403	1,400	1,576	1,850	1,842	1,950	1,957	2,090	2,262	2,526	2,752	2,876	3,069
Astronomy														
Total articles	4,794	5,266	5,628	6,296	5,908	5,099	5,547	5,462	5,942	6,357	6,021	5,821	5,705	5,814
with multiple institutions	3,868	4,339	4,567	5,154	4,842	4,313	4,717	4,731	5,128	5,428	5,274	5,116	5,038	5,247
with domestic institutions only	2,077	2,166	2,320	2,571	2,224	1,876	1,998	1,814	1,937	2,054	1,813	1,731	1,628	1,567
with international institutions	2,710	3,094	3,286	3,685	3,676	3,206	3,545	3,643	4,002	4,300	4,204	4,081	4,073	4,243
Biological sciences														
Total articles	74,830	79,396	81,194	81,562	84,759	85,763	87,553	89,372	95,106	101,141	103,644	105,628	103,278	98,674
with multiple institutions	55,264	60,401	62,294	62,779	65,439	66,979	65,871	66,646	72,832	78,231	81,628	83,879	83,165	81,572
with domestic institutions only	52,898	56,085	56,767	56,561	57,998	57,798	58,054	57,748	60,405	62,803	62,469	62,475	59,072	53,998
with international institutions	20,983	22,863	23,956	24,576	26,339	27,560	29,151	31,080	34,124	37,752	40,661	42,862	43,964	44,383
Chemistry														



Field and coauthorship attribute	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total articles	19,674	23,390	26,003	25,003	24,620	27,113	24,897	27,196	29,948	28,422	29,197	29,623	29,480	27,833
with multiple institutions	10,401	12,748	13,243	13,772	13,902	15,323	14,592	16,060	17,877	17,988	18,763	19,697	20,362	19,821
with domestic institutions only	14,562	17,425	19,883	18,682	18,088	20,123	17,523	19,006	20,796	18,848	18,934	18,460	17,516	15,980
with international institutions	5,048	5,853	6,023	6,179	6,410	6,852	7,286	8,132	9,092	9,528	10,134	11,081	11,940	11,824
Computer sciences														
Total articles	21,944	25,357	30,533	30,900	33,096	32,480	33,740	34,409	35,344	34,559	35,165	34,665	35,525	33,005
with multiple institutions	10,825	12,225	15,262	16,273	17,679	17,909	18,925	19,284	20,077	20,302	21,086	21,545	22,051	20,993
with domestic institutions only	17,354	20,137	23,983	23,744	24,788	23,716	24,240	24,381	24,875	23,713	23,721	22,566	23,125	20,975
with international institutions	4,401	5,016	6,283	6,773	7,722	8,277	9,239	9,889	10,368	10,758	11,386	12,050	12,351	11,987
Engineering														
Total articles	45,047	48,822	58,175	57,006	57,143	56,394	58,359	62,437	63,013	63,182	65,017	62,670	63,222	63,304
with multiple institutions	23,908	27,534	34,749	36,593	36,157	34,280	34,666	36,473	37,082	37,587	39,379	38,908	40,291	40,821
with domestic institutions only	35,382	37,880	43,975	41,308	41,033	41,171	42,603	46,031	46,090	45,329	45,511	42,431	41,461	40,678
with international institutions	9,068	10,105	13,015	13,929	14,026	13,707	14,892	16,012	16,423	17,436	19,218	20,006	21,620	22,516
Geosciences														
Total articles	18,537	22,657	24,264	23,432	24,675	24,181	24,667	24,817	25,748	26,069	28,041	29,616	27,943	28,551
with multiple institutions	12,906	16,097	17,566	16,819	17,823	17,803	18,100	18,292	19,008	19,415	21,217	22,445	22,040	22,790
with domestic institutions only	12,611	15,926	16,644	15,474	16,267	15,392	15,257	15,202	15,459	15,498	16,060	16,848	15,101	14,888
with international institutions	5,796	6,509	7,257	7,682	8,047	8,516	9,196	9,483	10,163	10,483	11,870	12,690	12,808	13,617



Field and coauthorship attribute	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Mathematics														
Total articles	7,609	7,744	8,690	8,889	9,319	9,754	10,288	9,901	10,481	10,987	11,070	11,536	11,370	11,063
with multiple institutions	4,538	4,847	5,343	5,538	5,903	6,197	6,319	6,018	6,510	6,934	7,193	7,663	7,610	7,527
with domestic institutions only	4,828	4,963	5,558	5,677	5,869	6,089	6,399	6,180	6,332	6,560	6,334	6,510	6,455	6,073
with international institutions	2,746	2,722	3,091	3,133	3,370	3,599	3,856	3,697	4,119	4,406	4,716	5,004	4,907	4,965
Medical sciences														
Total articles	97,043	103,011	109,110	113,141	115,646	119,283	123,785	126,748	132,655	137,856	141,318	147,916	148,932	145,950
with multiple institutions	72,706	80,073	86,194	87,233	89,958	92,446	90,513	90,393	97,857	102,227	106,694	112,524	115,749	116,384
with domestic institutions only	76,147	80,536	84,727	87,594	87,955	89,751	92,615	93,206	97,313	99,964	101,012	104,449	102,853	98,315
with international institutions	17,752	20,200	22,036	23,479	25,739	27,697	29,727	31,784	33,408	35,845	38,159	42,352	45,018	46,613
Other life sciences														
Total articles	8,507	8,916	9,576	10,058	9,868	10,154	10,405	10,684	11,459	12,129	11,993	11,872	11,451	10,973
with multiple institutions	3,836	4,547	4,993	5,892	5,986	6,067	5,808	5,881	6,553	6,973	7,046	7,175	7,219	6,986
with domestic institutions only	7,775	8,116	8,672	9,020	8,599	8,774	8,897	9,081	9,668	10,285	9,994	10,049	9,640	9,113
with international institutions	498	601	685	789	957	1,052	1,255	1,261	1,398	1,421	1,638	1,681	1,679	1,768
Physics														
Total articles	38,172	39,615	45,902	48,154	47,825	45,073	44,161	45,080	44,925	46,108	43,217	44,313	39,884	37,472
with multiple institutions	23,133	24,351	27,493	29,271	29,595	28,243	27,890	28,846	29,312	30,902	29,253	30,173	27,383	26,836
with domestic institutions only	25,361	26,265	31,008	32,403	31,688	29,111	28,218	28,656	28,020	27,903	25,735	25,662	22,792	20,455



Field and coauthorship attribute	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
with international institutions	12,654	13,209	14,752	15,530	15,871	15,776	15,862	16,339	16,840	18,135	17,255	18,579	17,053	16,921
Psychology														
Total articles	10,363	10,740	12,056	12,975	13,028	13,866	14,524	15,088	15,753	16,572	16,886	18,025	17,560	16,419
with multiple institutions	7,379	8,328	9,354	9,868	9,499	9,685	9,117	8,908	9,498	10,099	10,527	11,491	11,340	10,941
with domestic institutions only	8,566	8,957	10,043	10,776	10,597	11,266	11,958	12,315	12,786	13,250	13,441	14,152	13,678	12,655
with international institutions	1,391	1,571	1,714	1,927	2,143	2,343	2,419	2,643	2,844	3,220	3,321	3,795	3,840	3,742
Social sciences														
Total articles	19,104	20,235	21,921	22,774	24,018	25,603	27,827	29,754	31,152	32,145	33,252	34,901	34,581	33,293
with multiple institutions	7,013	8,742	9,484	10,060	10,299	11,120	10,806	10,798	11,549	12,293	13,084	13,832	14,088	14,255
with domestic institutions only	16,597	17,426	18,935	19,271	20,272	21,453	23,497	25,322	26,430	26,781	27,498	28,596	28,088	26,458
with international institutions	2,104	2,498	2,610	3,059	3,292	3,667	4,063	4,275	4,551	5,209	5,622	6,168	6,399	6,727

Note(s)

Article counts refer to publications from a selection of journals, books, and conference proceedings in S&E from Scopus. Articles are classified by their year of publication and are assigned to a region, country, or economy on the basis of the institutional address(es) listed in the article. Articles are credited on a whole-count basis (i.e., each collaborating region, country, or economy is credited with one count). Articles with multiple institutions are counts of articles with two or more institutional addresses. Articles with domestic institutions only are counts of articles with one or more institutional addresses all within a single region, country, or economy. Articles with international institutions are counts of articles with institutional addresses from more than one region, country, or economy.

Source(s)

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