



Statistical Summary
1907-1999

CHEMICAL ABSTRACTS PUBLICATION RECORD 1907-56

Year	Vol.	Number of Abstracts			Total Abstracts	Total Abstracts To Date	Patent Equivalents	Total Documents Cited	Total Documents Cited to Date	Pages of Abstracts	Issue Index Pages	Vol. Index Pages	Total Pages Published ^a
		Papers	Patents	Books									
1907	1	7,994	3,853		11,847	11,847				3,074		363	3,437
1908	2	11,414	3,658	97	15,169	27,016				3,416		473	3,889
1909	3	11,455	3,806	198	15,459	42,475				3,020		341	3,361
1910	4	13,006	3,754	785	17,545	60,020				3,314		727	4,041
1911	5	15,892	5,014	776	21,682	81,702				3,926		845	4,771
1912	6	15,740	6,919	535	23,194	104,896				3,544		799	4,343
1913	7	19,025	6,946	659	26,630	131,526				4,096		834	4,930
1914	8	16,468	7,920	727	25,115	156,641				3,872		725	4,597
1915	9	12,200	6,159	622	18,981	175,622				3,379		580	3,959
1916	10	10,519	5,265	324	16,108	191,730				3,180		492	3,672
1917	11	10,921	4,680	344	15,945	207,675				3,470		524	3,994
1918	12	9,283	4,074	524	13,881	221,556				2,712		503	3,215
1919	13	10,957	3,741	542	15,240	236,796				3,338		589	3,927
1920	14	13,619	4,432	1,275	19,326	256,122				3,826		846	4,672
1921	15	15,211	4,265	975	20,451	276,573				4,059		783	4,842
1922	16	18,070	5,142	886	24,098	300,671				4,365		1,156	5,521
1923 ^b	17	19,507	4,749	1,059	25,315	325,986				3,924		1,008	4,932
1924	18	20,523	5,084	1,036	26,643	352,629				3,740		1,135	4,875
1925	19	20,951	5,475	671	27,097	379,726				3,618		1,155	4,773
1926	20	23,103	6,099	1,036	30,238	409,964				3,842		1,406	5,248
1927	21	25,037	7,872	582	33,491	443,455				4,098		1,413	5,511
1928	22	28,153	9,936	1,046	39,135	482,590				4,878		1,727	6,605
1929	23	29,082	17,867	1,344	48,293	530,883				5,614		1,821	7,435
1930	24	32,731	21,246	1,169	55,146	586,029				6,066		2,142	8,208
1931	25	32,278	18,904	1,546	52,728	638,757				6,161		2,282	8,443
1932	26	37,403	20,678	1,380	59,461	698,218				6,184		2,270	8,454
1933	27	36,139	28,051	1,963	66,153	764,371				6,024		2,172	8,196
1934 ^{c,d}	28	38,371	21,824	1,375	61,570	825,941				3,798		1,157	4,955
1935	29	42,593	19,241	1,579	63,413	889,354				4,204		1,330	5,534
1936	30	41,927	20,836	1,809	64,572	953,926				4,346		1,528	5,874
1937	31	44,032	19,006	1,697	64,735	1,018,661				4,498		1,485	5,983
1938	32	45,917	19,515	1,496	66,928	1,085,589				4,782		1,542	6,324
1939	33	45,414	19,893	1,801	67,108	1,152,697				4,860		1,607	6,267
1940	34	40,624	11,635	1,421	53,680	1,206,377				4,170		1,384	5,554
1941	35	35,588	17,176	1,330	54,094	1,260,471				4,184		1,464	5,648
1942	36	30,479	14,334	833	45,646	1,306,117				3,684		1,232	4,916
1943	37	30,523	11,473	1,673	43,669	1,349,786				3,470		1,200	4,670
1944	38	30,440	11,494	1,766	43,700	1,393,486				3,306		1,175	4,481
1945	39	22,824	9,357	1,491	33,672	1,427,158				2,782		1,137	3,919
1946	40	29,943	8,810	825	39,578	1,466,736				3,853	144	1,591	5,588
1947	41	30,461	7,925	902	39,288	1,506,024				3,909	142	1,496	5,547
1948	42	35,867	7,002	1,127	43,996	1,550,020				4,623	168	1,740	6,531
1949	43	40,612	11,390	1,439	53,441	1,603,461				4,769	183	1,991	6,943
1950	44	47,496	10,063	1,539	59,098	1,662,559				5,592	210	2,350	8,152
1951 ^c	45	50,657	10,417	1,959	63,033	1,725,592				5,340	242	2,534	8,116
1952	46	56,419	12,185	1,543	70,147	1,795,739				5,890	265	2,574	8,729
1953	47	61,273	11,906	1,912	75,091	1,870,830				6,444	294	2,821	9,559
1954	48	67,606	11,083	1,926	80,615	1,951,445				7,151	297	3,237	10,685
1955	49	74,664	9,926	1,732	86,322	2,037,767				8,264	324	3,721	12,309
1956	50	78,009	12,350	2,037	92,396	2,130,163				8,768	355	4,522	13,645

CHEMICAL ABSTRACTS PUBLICATION RECORD 1957-99

Year	Vol.	Number of Abstracts			Total Abstracts	Total Abstracts To Date	Patent Equivalents	Total Documents Cited	Total Documents Cited to Date	Pages of Abstracts	Issue Index Pages	Vol. Index Pages	Total Pages Published ^a
		Papers	Patents	Books									
1957	51	84,205	16,822	1,498	102,525	2,232,688				9,353	392	4,397	14,142
1958	52	95,736	21,920	1,274	118,930	2,351,618				10,628	486	4,873	15,987
1959	53	98,680	26,760	1,756	127,196	2,478,814				11,557	525	5,471	17,553
1960	54	104,484	27,675	2,096	134,255	2,613,069				13,014	552	6,686	20,252
1961	55	118,337	26,249	2,307	146,893	2,759,962	7,609	154,502	2,767,571	13,999	658	8,322	22,979
1962	56,57	140,168	26,467	2,716	169,351	2,929,313	5,787	175,138	2,942,709	16,725	758	9,373	26,856
1963 ^c	58,59	141,016	26,240	4,148	171,404	3,100,717	8,400	179,804	3,122,513	15,298	1,245	9,136	25,679
1964	60,61	161,489	26,422	2,082	189,993	3,290,710	13,375	203,368	3,325,881	16,608	1,498	10,176	28,282
1965	62,63	165,770	29,225	2,088	197,083	3,487,793	19,312	216,395	3,542,276	17,963	1,820	11,074	30,857
1966	64,65	181,715	35,031	3,557	220,303	3,708,096	28,940	249,243	3,791,519	20,700	2,104	12,660	35,464
1967	66,67	202,684	36,797	3,046	242,527	3,950,623	26,766	269,293	4,060,812	22,815	2,683	14,023	39,521
1968	68,69	198,035	31,720	2,753	232,508	4,183,131	19,180	251,688	4,312,500	22,103	2,621	15,703	40,427
1969	70,71	210,344	39,424	2,552	252,320	4,435,451	33,026	285,346	4,597,846	23,533	3,220	18,071	44,824
1970	72,73	230,902	43,044	2,728	276,674	4,712,125	33,068	309,742	4,907,588	23,792	3,777	21,144	48,713
1971	74,75	262,127	43,405	3,444	308,976	5,021,101	41,129	350,105	5,257,693	24,690	5,744	21,151	51,585
1972	76,77	280,143	51,179	3,104	334,426	5,355,527	44,622	379,048	5,636,741	27,386	5,877	20,791	54,054
1973	78,79	269,711	48,683	2,611	321,005	5,676,532	35,544	356,549	5,993,290	25,865	5,708	20,123	51,696
1974	80,81	272,235	58,436	2,953	333,624	6,010,156	42,039	375,663	6,368,953	26,282	5,522	21,180	52,984
1975	82,83	317,472	68,471	6,291	392,234	6,402,390	62,011	454,245	6,823,198	31,100	6,711	25,158	62,969
1976	84,85	317,985	67,176	5,744	390,905	6,793,295	67,603	458,508	7,281,706	31,390	6,891	27,310	65,591
1977	86,87	348,059	55,441	6,637	410,137	7,203,432	68,088	478,225	7,759,931	32,253	7,263	28,980	68,496
1978	88,89	363,195	57,343	7,804	428,342	7,631,774	70,217	498,559	8,258,490	33,368	7,593	27,677	68,638
1979	90,91	370,771	58,738	7,378	436,887	8,068,661	78,854	515,741	8,774,231	34,878	8,010	30,002	72,890
1980	92,93	407,342	61,998	6,399	475,739 ^e	8,544,400	72,937	548,676	9,322,907	38,188	8,697	32,197	79,064
1981	94,95	373,973	71,180	5,434	450,587	8,994,987	98,739	549,326	9,872,233	37,074	10,098	35,650	82,822
1982	96,97	381,257	70,774	5,758	457,789	9,452,776	99,658	557,447	10,429,680	37,970	10,595	36,072	84,637
1983 ^b	98,99	371,389	74,948	5,416	451,753	9,904,529	95,811	547,564	10,977,244	34,394	10,498	35,368	80,260
1984	100,101	380,692	73,907	5,970	460,569	10,365,098	111,239	571,808	11,549,052	34,876	11,216	39,135	85,227
1985	102,103	380,091	73,073	4,767	457,931	10,823,029	98,781	556,712	12,105,764	36,284	10,794	39,631	86,709
1986	104,105	384,141	85,767	4,521	474,429	11,297,458	104,453	578,882	12,684,646	37,826	11,380	42,913	92,119
1987	106,107	386,466	85,219	4,493	476,178	11,773,636	102,419	578,597	13,263,243	38,268	11,650	45,269	95,187
1988	108,109	389,685	80,795	4,065	474,545	12,248,181	103,583	578,128	13,841,371	38,968	12,048	45,711	96,727
1989	110,111	397,158	88,099	3,934	489,191	12,737,372	112,437	601,628	14,442,999	40,424	12,736	51,143	104,303
1990	112,113	394,945	91,082	3,490	489,517	13,226,889	118,113	607,630	15,050,629	41,097	13,005	54,059	108,161
1991	114,115	453,640	95,526	3,885	553,051	13,779,940	133,666	686,717	15,737,346	46,608	14,596	57,890	119,094
1992	116,117	430,247	98,505	3,685	532,437	14,312,377	135,831	668,268	16,405,614	45,394	14,716	54,394	114,504
1993	118,119	448,733	99,411	3,261	551,405	14,863,782	135,837	687,242	17,092,856	48,461	15,472	53,910	117,843
1994	120,121	542,511	107,226	3,318	653,055	15,516,837	122,752	775,807	17,868,663	58,331	17,472	66,364	142,167
1995	122,123	562,955	121,214	3,620	687,789	16,204,626	126,459	814,248	18,682,911	61,707	18,777	75,426	155,910
1996	124,125	579,251	121,682	5,336	706,269	16,910,895	141,374	847,643	19,530,554	65,481	18,635	80,114	164,230
1997	126,127	585,530	125,883	5,151	716,564	17,627,459	130,892	847,456	20,378,010	69,855	22,631	85,696	178,182
1998	128,129	559,009	117,815	4,184	681,008	18,308,467	149,646	830,654	21,208,664	68,391	23,596	87,925	179,912
1999	130,131	591,092	125,393	4,060	720,545	19,029,012	164,863	885,408	22,094,072	74,069	26,758 (100,000)	(200,800)	(200,800)

^a Total includes "List of Periodicals" pages, which are not shown separately, for those years in which that list was published in CA.

() = estimate

^b Type size decreased

^c Page size increased

^d Two-column format adopted

^e About 17,000 of the abstracts published in 1980 resulted from a 14-day shortening of processing time.

SOURCES^a OF JOURNAL LITERATURE ABSTRACTED IN CHEMICAL ABSTRACTS

(as percentage of total journal literature abstracted)

Nation	1918	1929	1939	1943 ^b	1947 ^b	1951 ^b	1956 ^b	1962 ^b	1972	1982	1993	1995	1996	1997	1998	1999
United States	45.4%	25.8%	27.7%	30.6%	41.8%	36.6%	28.4%	28.4%	28.0%	27.1%	28.1%	27.0%	27.7%	25.9%	24.4%	23.9%
Japan	2.8	3.7	4.4	0.5	4.4	9.1	10.4	6.9	7.9	10.2	13.3	12.8	12.5	13.1	13.5	13.5
Germany	13.8	26.9	18.7	23.6	3.1	7.9	8.4	8.5			7.5	7.7	7.5	7.7	7.8	7.5
Fed. Rep. Germany									5.7	6.1						
German Dem. Rep.									0.5	1.2						
Peop. Rep. China										1.8	4.3	6.1	6.0	6.8	8.1	9.0
Brit. C'wealth	16.8	13.5	14.1	13.2	15.6	17.4	13.6									
United Kingdom								8.6	6.4	5.9	5.7	5.5	5.7	5.5	5.2	5.1
Canada								1.1	2.8	2.7	3.2	3.0	3.1	2.8	2.7	2.7
India								2.5	2.5	3.3	2.6	2.5	2.3	2.3	2.4	2.3
Australia								c	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.4
France	9.2	7.0	9.1	4.9	8.4	6.2	6.0	4.8	4.4	4.1	4.7	4.6	4.6	4.6	4.4	4.3
Italy	3.1	3.0	3.0	2.6	3.8	3.3	4.1	1.5	1.9	2.3	2.6	2.7	2.9	2.8	2.8	2.7
Spain	c	c	c	c	c	c	c	c	0.4	0.9	1.7	1.8	1.9	2.0	1.9	2.0
Netherlands	3.6	2.1	1.6	c	1.7	1.7	1.3	1.0	1.0	1.3	1.6	1.5	1.6	1.5	1.5	1.4
Poland	c	c	c	c	c	c	c	1.6	2.0	1.5	1.4	1.6	1.4	1.6	1.4	1.5
Sweden	c	c	c	c	c	c	c	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2
Switzerland	1.4	1.1	0.9	c	2.8	1.9	1.9	0.9	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2
U.S.S.R	0.7	3.4	11.1	12.8	8.2	6.3	13.5	23.0	24.0	17.6	0.6	0.1	0.0	0.0	0.0	0.0
Russia											5.4	5.0	4.5	4.5	4.7	4.4
S. Korea										0.3	1.0	1.4	1.4	1.6	1.8	1.9
All others	3.2	13.5	9.4	11.8	10.2	9.6	12.4	10.1	9.2	10.2	12.5	12.9	13.1	13.5	13.5	14.0

^a Based on author's address.

^b Percentages based on sample. For all other years, complete counts were made.

^c Included in "all others" for year.

LANGUAGE OF PUBLICATION OF JOURNAL LITERATURE ABSTRACTED IN CHEMICAL ABSTRACTS

(as percentage of total journal literature abstracted)

Language	1961	1966	1972	1978	1984	1993	1994	1995	1996	1997	1998	1999
English	43.3%	54.9%	58.0%	62.8%	69.2%	80.3%	81.9%	81.3%	83.2%	82.9%	82.5%	82.0%
Russian	18.4	21.0	22.4	20.4	15.7	6.4	5.2	4.7	3.8	3.5	3.1	2.8
Chinese	a	0.5	a	0.3	2.2	2.9	4.6	4.4	4.2	4.7	5.9	6.5
Japanese	6.3	3.1	3.9	4.7	4.0	4.6	4.2	4.2	3.9	4.5	4.5	4.6
German	12.3	7.1	5.5	5.0	3.4	2.2	1.5	2.1	1.9	1.6	1.6	1.6
French	5.2	5.2	3.9	2.4	1.3	0.9	0.6	0.7	0.7	0.6	0.5	0.5
Korean	a	a	0.2	0.2	0.2	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Polish	1.9	1.8	1.2	1.1	0.7	0.5	0.3	0.5	0.4	0.4	0.3	0.4
Spanish	0.6	0.5	0.6	0.7	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3
Others	12.0	5.9	4.3	2.4	2.7	1.4	0.9	1.3	1.1	1.0	0.8	0.8

^a Included in "others" for year.

COUNTRY OF ISSUE OF PATENTS ABSTRACTED^a IN CHEMICAL ABSTRACTS

(as percentage of total patents abstracted)

	1965	1970	1975	1980	1985	1990	1993	1995	1996	1997	1998	1999
Japan	6.0%	11.8%	40.4%	43.4%	54.9%	56.7%	60.3%	57.6%	57.3%	60.1%	54.5	56.0%
United States	24.9	23.7	15.1	11.3	8.8	7.8	7.1	7.4	8.0	7.1	9.7	9.7
European Patent Org.	—	—	—	4.0	8.7	12.9	9.8	7.6	7.4	6.3	6.1	5.9
World Intel. Prop. Org.	—	—	—	0.4	1.4	3.4	7.2	9.0	11.2	13.2	16.6	18.3
Fed. Rep. Germany	8.3	23.5	20.3	12.1	7.7	4.8	3.9	4.1	4.8	4.6	5.4	4.4
USSR	6.9	7.7	8.8	9.7	5.3	4.7	4.9	3.2	1.5	1.1	0.1	0.0
Russia	—	—	—	—	—	—	—	3.5	4.2	4.4	4.1	0.0
Peop. Rep. China	—	—	—	—	—	1.6	1.6	3.2	1.7	0.1	0.9	3.0
France	16.0	15.3	4.0	1.7	2.1	0.7	0.7	0.6	0.5	0.6	0.8	0.7
Canada	0.2	0.2	1.2	1.2	0.5	0.2	0.9	0.8	0.7	0.5	0.2	0.3
United Kingdom	11.4	8.9	3.3	4.9	1.0	0.8	0.5	0.6	0.6	0.6	0.4	0.5
Poland	0.8	0.6	0.3	1.7	0.8	1.5	0.8	0.8	1.0	0.3	0.2	0.3
All Others	25.5	8.3	6.6	9.6	8.8	4.9	2.3	1.6	2.6	1.1	1.0	0.9

COUNTRY OF ISSUE OF EQUIVALENT PATENTS^a CITED IN CHEMICAL ABSTRACTS

(as percentage of total equivalent patents cited)

	1965	1970	1975	1980	1985	1990	1993	1995	1996	1997	1998	1999
Japan	1.3%	0.9%	19.8%	22.4%	30.4%	28.9%	32.7%	29.9%	26.3%	26.3%	24.5%	28.6%
European Patent Org.	—	—	—	3.3	15.0	20.6	17.6	20.5	18.6	22.5	20.5	19.5
United States	16.7	18.1	15.8	12.4	11.6	13.7	13.1	12.7	12.7	15.9	15.9	16.0
Canada	0.1	0.1	7.7	10.7	6.3	4.3	9.9	7.4	7.4	6.7	8.3	5.8
South Africa	—	4.5	4.0	2.5	3.0	2.2	1.5	1.9	5.4	0.9	0.0	1.4
Spain	—	—	—	2.4	3.2	0.5	2.3	4.0	5.0	3.3	4.3	3.2
Austria	—	—	3.2	1.4	3.0	3.3	4.1	1.5	4.1	4.3	3.2	3.0
Peop. Rep. China	—	—	—	—	—	4.3	1.9	3.2	3.7	3.7	6.5	6.5
World Intel. Prop. Org.	—	—	0.4	0.4	0.4	1.2	1.8	2.7	2.7	3.1	2.5	3.2
Australia	—	—	0.1	0.2	2.4	4.3	3.7	3.0	2.5	3.0	4.1	3.5
Hungary	—	0.1	0.1	0.3	2.3	2.6	1.8	1.8	1.6	1.5	0.9	0.4
Fed. Rep. Germany	14.2	32.0	2.2	3.2	1.3	1.5	1.4	1.5	1.5	1.6	1.5	1.7
Brazil	—	—	—	2.6	1.8	1.9	1.4	1.1	1.4	0.6	2.8	2.5
France	16.7	16.0	14.1	7.6	2.1	1.4	1.2	1.4	1.4	1.4	1.1	1.1
United Kingdom	27.3	23.6	16.6	13.7	6.6	2.4	1.0	1.3	1.1	1.4	1.5	1.3
Israel	—	—	—	1.1	1.1	0.7	1.0	1.0	0.7	0.8	0.4	0.6
All Others	23.7	4.7	16.4	15.8	9.5	6.2	3.6	5.1	3.9	3.0	2.0	1.7

^a CAS abstracts the first disclosure it receives on a particular invention. Subsequently issued members of the family of patent documents on the invention are cited in the CA Patent Index (Patent Concordance prior to 1981).

COLLECTIVE INDEXES TO CHEMICAL ABSTRACTS

Collective Index	Years Covered	Documents Cited	Pages							Total
			Author	Subject	General Subject	Chemical Substance	Formula	Patent	Index Guide	
1 st	1907-16	191,730	1,980	2,843	—	—	—	—	—	4,823
2 nd	1917-26	218,234	2,452	4,139	—	—	—	—	—	6,591
3 rd	1927-36	543,962	3,095	4,885	—	—	—	479	—	8,459
4 th	1937-46	512,810	3,541	6,386	—	—	2,077	182	—	12,186
5 th	1947-56	663,427	5,074	13,740	—	—	2,968	144	—	21,926
6 th	1957-61	637,408	6,164	12,659	—	—	3,869	172	—	22,864
7 th	1962-66	1,023,948	9,607	24,632	—	—	7,007	352	—	41,598
8 th	1967-71	1,466,174	13,845	46,384 ^a	—	—	11,769	761	2,280	75,039
9 th	1972-76	2,024,013	19,128	b	16,798	40,891	16,251	1,374	1,440	95,882
10 th	1977-81	2,601,773	24,684	b	25,508	56,112	19,904	3,643	1,605	131,456
11 th	1982-86	2,812,413	26,756	b	33,424	71,720	24,014	4,961	2,115	162,990
12 th	1987-91	3,052,700	32,659	b	42,679	97,323	34,950	5,720	2,514	215,845
13 th	1992-96	3,130,955	43,917	b	71,143	123,259	42,868	7,496	2,568	291,251

^a Includes REGISTRY-HANDBOOK—NUMBER SECTION, which was issued as part of the 8th Collective index.

^b The Subject Index was subdivided into General Subject and Chemical Substance Indexes for the 9th collective period.

GROWTH OF THE CAS CHEMICAL REGISTRY SYSTEM

Year	Substances Registered	Substances on file at year end	Year	Substances Registered	Substances on file at year end	Year	Substances Registered	Substances on file at year end
1965	211,934	211,934	1980	353,881	5,141,872	1995	1,186,334 ^c	14,594,302
1966	313,763	525,697	1981	424,230	5,566,102	1996	1,269,246 ^c	15,863,548
1967	270,782	796,479	1982	361,706	5,927,808	1997	1,376,942 ^c	17,240,490
1968	230,321	1,026,800	1983	418,905	6,346,713	1998	1,679,913 ^c	18,920,403
1969	287,048	1,313,848	1984	563,390 ^b	6,910,103	1999	3,548,161 ^c	22,468,564
1970	288,085	1,601,933	1985	544,618 ^b	7,454,721			
1971	351,514	1,953,447	1986	628,966 ^b	8,083,687			
1972	277,563	2,231,010	1987	610,480 ^b	8,694,167			
1973	437,202 ^a	2,668,212	1988	602,465 ^b	9,296,632			
1974	319,808	2,988,020	1989	615,987 ^b	9,912,619			
1975	372,492	3,360,512	1990	663,342 ^b	10,575,961			
1976	347,515	3,708,027	1991	684,252	11,260,213			
1977	369,676	4,077,703	1992	690,313	11,950,526			
1978	364,226	4,441,929	1993	680,230	12,630,756			
1979	346,062	4,787,991	1994	777,212 ^c	13,407,968			

^a Registry III implementation added 77,650 substances.

^b Input of substances indexed prior to 1965 added 140,760 in 1984, 151,431 substances in 1985, 165,705 substances in 1986, 119,888 substances in 1987, 51,253 substances in 1988, 44,112 substances in 1989, and 14,550 substances in 1990.

^c Registered substances included biosequences as follows: 135,987 in 1994, 481,799 in 1995, 555,133 in 1996, 797,127 in 1997, 1,019,257 in 1998, and 2,818,123 in 1999.

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