

Appendix table 5-41
S&E articles, by region and country/economy: 1988–2003

| Region and country/economy | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| All countries..... | 466,419 | 497,102 | 508,795 | 515,530 | 547,617 | 540,491 | 567,204 | 580,809 | 593,568 | 594,467 | 617,762 | 632,059 | 632,781 | 649,795 | 641,388 | 698,726 |
| Major S&E article producers..... | 353,862 | 377,817 | 389,307 | 397,004 | 422,045 | 421,573 | 442,390 | 455,429 | 467,036 | 468,143 | 487,006 | 497,069 | 496,599 | 512,166 | 501,778 | 546,626 |
| United States..... | 177,662 | 187,224 | 191,559 | 194,015 | 198,864 | 197,397 | 199,769 | 202,887 | 201,798 | 197,531 | 197,890 | 198,524 | 196,221 | 200,870 | 195,792 | 211,233 |
| EU-15..... | 134,551 | 145,337 | 149,032 | 152,761 | 166,230 | 166,540 | 179,710 | 185,842 | 193,172 | 195,060 | 205,479 | 209,006 | 208,128 | 211,177 | 204,769 | 220,002 |
| Austria..... | 2,241 | 2,675 | 2,690 | 2,756 | 3,047 | 3,051 | 3,177 | 3,477 | 3,618 | 3,880 | 4,172 | 4,210 | 4,259 | 4,526 | 4,405 | 4,906 |
| Belgium..... | 3,586 | 3,905 | 4,103 | 4,164 | 4,431 | 4,512 | 4,949 | 5,260 | 5,583 | 5,509 | 5,822 | 5,924 | 5,739 | 5,984 | 5,933 | 6,604 |
| Denmark..... | 3,445 | 3,722 | 3,716 | 3,776 | 4,141 | 4,068 | 4,458 | 4,408 | 4,477 | 4,512 | 4,782 | 4,909 | 4,929 | 4,988 | 4,740 | 5,291 |
| Finland..... | 2,789 | 2,981 | 3,071 | 3,211 | 3,438 | 3,603 | 3,974 | 4,134 | 4,354 | 4,523 | 4,564 | 4,872 | 4,878 | 5,098 | 4,873 | 5,202 |
| France..... | 21,409 | 22,686 | 22,937 | 23,518 | 26,172 | 26,225 | 28,266 | 29,309 | 29,755 | 30,061 | 31,809 | 32,097 | 30,960 | 31,317 | 29,928 | 31,971 |
| Germany..... | 29,292 | 31,821 | 32,295 | 32,929 | 35,120 | 34,103 | 36,901 | 38,100 | 39,123 | 40,743 | 43,953 | 43,550 | 43,440 | 43,623 | 41,863 | 44,305 |
| Greece..... | 1,239 | 1,518 | 1,397 | 1,598 | 1,736 | 1,759 | 1,974 | 2,068 | 2,265 | 2,407 | 2,666 | 2,705 | 2,892 | 3,329 | 3,373 | 3,770 |
| Ireland..... | 790 | 826 | 902 | 915 | 946 | 1,003 | 1,168 | 1,210 | 1,269 | 1,318 | 1,526 | 1,526 | 1,596 | 1,665 | 1,650 | 1,758 |
| Italy..... | 11,229 | 12,509 | 13,062 | 13,778 | 15,462 | 15,279 | 17,000 | 17,904 | 19,342 | 19,147 | 20,321 | 20,819 | 21,038 | 22,313 | 22,314 | 24,696 |
| Luxembourg..... | 7 | 11 | 17 | 15 | 23 | 22 | 26 | 31 | 20 | 33 | 33 | 34 | 42 | 46 | 33 | 46 |
| Netherlands..... | 8,581 | 9,736 | 10,176 | 10,106 | 11,060 | 11,360 | 11,961 | 12,330 | 12,438 | 12,779 | 12,756 | 12,642 | 12,466 | 12,602 | 12,517 | 13,475 |
| Portugal..... | 429 | 510 | 587 | 640 | 712 | 794 | 914 | 989 | 1,090 | 1,250 | 1,404 | 1,765 | 1,813 | 2,142 | 2,173 | 2,625 |
| Spain..... | 5,432 | 6,116 | 6,837 | 7,269 | 9,267 | 9,759 | 10,534 | 11,343 | 12,234 | 13,040 | 13,786 | 14,860 | 14,776 | 15,570 | 15,868 | 16,826 |
| Sweden..... | 7,573 | 8,126 | 8,172 | 8,139 | 8,273 | 8,547 | 8,972 | 9,284 | 9,697 | 9,677 | 9,967 | 10,129 | 9,815 | 10,314 | 9,829 | 10,237 |
| United Kingdom..... | 36,509 | 38,195 | 39,069 | 39,950 | 42,404 | 42,456 | 45,436 | 45,993 | 47,904 | 46,183 | 47,916 | 48,965 | 49,485 | 47,660 | 45,269 | 48,288 |
| Japan..... | 34,435 | 36,569 | 38,570 | 39,590 | 44,143 | 43,339 | 46,692 | 47,603 | 50,392 | 50,171 | 54,658 | 56,134 | 55,413 | 57,420 | 55,085 | 60,067 |
| East Asia-4..... | 7,214 | 8,687 | 10,146 | 10,638 | 12,807 | 14,297 | 16,220 | 19,097 | 21,675 | 25,381 | 28,980 | 33,405 | 36,837 | 42,699 | 46,132 | 55,324 |
| China..... | 4,619 | 5,411 | 6,285 | 6,186 | 6,956 | 7,566 | 7,821 | 9,261 | 10,070 | 12,530 | 13,807 | 16,197 | 18,142 | 20,978 | 23,609 | 29,186 |
| Singapore..... | 410 | 517 | 572 | 599 | 755 | 854 | 1,022 | 1,184 | 1,181 | 1,338 | 1,635 | 1,984 | 2,301 | 2,603 | 2,677 | 3,122 |
| South Korea..... | 771 | 1,035 | 1,170 | 1,361 | 1,759 | 2,184 | 2,931 | 3,806 | 4,728 | 5,636 | 7,075 | 8,386 | 9,386 | 11,037 | 11,745 | 13,746 |
| Taiwan..... | 1,414 | 1,724 | 2,119 | 2,492 | 3,337 | 3,693 | 4,446 | 4,846 | 5,696 | 5,878 | 6,463 | 6,838 | 7,008 | 8,082 | 8,100 | 9,270 |
| Other regions/countries | | | | | | | | | | | | | | | | |
| Other Western Europe..... | 9,327 | 9,901 | 10,851 | 10,939 | 12,162 | 12,379 | 13,307 | 13,826 | 14,597 | 15,456 | 16,170 | 16,974 | 17,548 | 17,971 | 18,293 | 20,939 |
| Croatia..... | na | na | na | na | 17 | 575 | 508 | 563 | 614 | 631 | 589 | 671 | 704 | 710 | 657 | 845 |
| Cyprus..... | 15 | 15 | 17 | 8 | 22 | 24 | 24 | 41 | 54 | 66 | 61 | 58 | 60 | 74 | 85 | 92 |
| Iceland..... | 69 | 68 | 89 | 104 | 105 | 122 | 137 | 158 | 149 | 147 | 177 | 136 | 154 | 174 | 193 | 203 |
| Norway..... | 2,192 | 2,247 | 2,426 | 2,403 | 2,655 | 2,637 | 2,805 | 2,953 | 2,950 | 3,012 | 3,100 | 3,127 | 3,195 | 3,252 | 3,118 | 3,339 |
| Slovenia..... | na | na | na | na | 10 | 404 | 459 | 443 | 478 | 595 | 625 | 707 | 901 | 876 | 856 | 969 |
| Switzerland..... | 5,316 | 5,548 | 5,901 | 6,098 | 6,651 | 6,871 | 7,372 | 7,361 | 7,489 | 7,912 | 8,096 | 8,297 | 8,454 | 8,107 | 7,744 | 8,542 |
| Turkey..... | 507 | 668 | 750 | 846 | 1,048 | 1,172 | 1,397 | 1,713 | 2,206 | 2,440 | 2,818 | 3,240 | 3,482 | 4,098 | 5,072 | 6,224 |
| Yugoslavia..... | 1,211 | 1,330 | 1,641 | 1,447 | 1,621 | 496 | 514 | 507 | 568 | 555 | 605 | 622 | 513 | 547 | 460 | 600 |
| All others..... | 17 | 26 | 26 | 33 | 35 | 79 | 91 | 87 | 91 | 99 | 99 | 115 | 86 | 131 | 108 | 124 |
| Other Asia..... | 10,116 | 11,075 | 10,566 | 10,937 | 11,539 | 11,329 | 11,592 | 11,355 | 11,478 | 11,158 | 11,985 | 12,779 | 12,294 | 13,456 | 14,005 | 15,779 |
| Bangladesh..... | 95 | 99 | 116 | 104 | 151 | 153 | 136 | 170 | 155 | 146 | 138 | 168 | 160 | 177 | 160 | 204 |
| India..... | 8,882 | 9,744 | 9,200 | 9,517 | 10,100 | 9,763 | 9,928 | 9,591 | 9,736 | 9,419 | 10,066 | 10,589 | 10,047 | 11,076 | 11,538 | 12,774 |
| Indonesia..... | 59 | 86 | 104 | 89 | 86 | 103 | 120 | 133 | 137 | 146 | 138 | 172 | 165 | 207 | 167 | 178 |
| Malaysia..... | 208 | 241 | 233 | 260 | 247 | 293 | 345 | 373 | 372 | 339 | 402 | 493 | 470 | 494 | 485 | 520 |
| Pakistan..... | 235 | 263 | 257 | 315 | 277 | 349 | 324 | 339 | 274 | 258 | 276 | 300 | 277 | 282 | 334 | 368 |
| Philippines..... | 127 | 149 | 157 | 148 | 150 | 148 | 141 | 151 | 153 | 174 | 167 | 187 | 177 | 158 | 178 | 179 |
| Sri Lanka..... | 107 | 101 | 106 | 84 | 82 | 83 | 85 | 82 | 78 | 68 | 75 | 94 | 104 | 76 | 95 | 141 |
| Thailand..... | 287 | 272 | 282 | 298 | 300 | 317 | 383 | 338 | 386 | 415 | 530 | 558 | 655 | 727 | 808 | 1,072 |

S&E articles, by region and country/economy: 1988–2003

| Region and country/economy | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Vietnam..... | 52 | 66 | 60 | 65 | 74 | 67 | 61 | 102 | 113 | 120 | 107 | 112 | 144 | 158 | 144 | 216 |
| All others..... | 64 | 55 | 50 | 58 | 72 | 54 | 71 | 76 | 74 | 74 | 86 | 106 | 96 | 101 | 96 | 125 |
| Eastern Europe/former USSR..... | 41,597 | 43,697 | 42,836 | 41,218 | 43,214 | 35,976 | 38,199 | 36,390 | 35,074 | 34,259 | 34,680 | 34,421 | 35,844 | 33,686 | 33,901 | 35,067 |
| Armenia..... | na | na | na | na | 21 | 165 | 178 | 182 | 179 | 186 | 169 | 156 | 167 | 152 | 201 | 175 |
| Azerbaijan..... | na | na | na | na | 15 | 197 | 189 | 157 | 125 | 87 | 94 | 70 | 89 | 68 | 73 | 107 |
| Bulgaria..... | 1,089 | 1,219 | 1,216 | 1,169 | 1,218 | 1,380 | 1,024 | 963 | 968 | 977 | 931 | 900 | 887 | 784 | 789 | 829 |
| Belarus..... | na | na | na | na | 30 | 708 | 1,021 | 728 | 597 | 576 | 598 | 616 | 576 | 528 | 480 | 532 |
| Czech Republic..... | 2,746 | 2,995 | 3,079 | 2,881 | 3,132 | 3,308 | 2,179 | 1,993 | 2,249 | 2,231 | 2,333 | 2,374 | 2,458 | 2,622 | 2,778 | 2,950 |
| Estonia..... | na | na | na | na | 2 | 177 | 202 | 240 | 248 | 255 | 299 | 320 | 344 | 339 | 333 | 368 |
| Georgia..... | na | na | na | na | 12 | 158 | 136 | 148 | 126 | 135 | 131 | 129 | 141 | 110 | 132 | 117 |
| Hungary..... | 1,714 | 1,847 | 1,722 | 1,806 | 1,824 | 1,718 | 1,774 | 1,826 | 1,839 | 1,939 | 2,144 | 2,313 | 2,292 | 2,479 | 2,308 | 2,503 |
| Kazakhstan..... | na | na | na | na | 19 | 250 | 191 | 173 | 143 | 125 | 122 | 109 | 113 | 116 | 123 | 128 |
| Latvia..... | na | na | na | na | 37 | 180 | 159 | 154 | 168 | 152 | 164 | 173 | 159 | 157 | 171 | 153 |
| Lithuania..... | na | na | na | na | 5 | 149 | 189 | 179 | 196 | 209 | 248 | 284 | 262 | 272 | 338 | 322 |
| Moldova..... | na | na | na | na | 15 | 156 | 159 | 140 | 136 | 116 | 98 | 95 | 96 | 77 | 76 | 78 |
| Poland..... | 4,030 | 4,245 | 3,999 | 3,919 | 4,113 | 3,848 | 4,041 | 4,535 | 4,597 | 4,445 | 4,891 | 5,195 | 5,342 | 5,686 | 6,023 | 6,770 |
| Romania..... | 393 | 513 | 377 | 395 | 568 | 507 | 675 | 648 | 871 | 835 | 858 | 909 | 956 | 997 | 900 | 988 |
| Russia..... | na | na | na | na | 817 | 19,659 | 21,612 | 19,974 | 18,464 | 18,343 | 17,841 | 17,149 | 18,271 | 15,846 | 15,818 | 15,782 |
| Slovakia..... | na | na | na | na | 44 | na | 1,151 | 1,137 | 1,175 | 1,051 | 1,144 | 997 | 1,007 | 955 | 936 | 943 |
| Ukraine..... | na | na | na | na | 162 | 2,894 | 2,923 | 2,856 | 2,600 | 2,287 | 2,362 | 2,351 | 2,365 | 2,256 | 2,183 | 2,089 |
| USSR..... | 31,625 | 32,879 | 32,443 | 31,047 | 31,127 | 130 | na | na | na | na | na | na | na | na | na | na |
| Uzbekistan..... | na | na | na | na | 50 | 275 | 290 | 295 | 347 | 264 | 213 | 242 | 273 | 204 | 192 | 192 |
| All others..... | na | na | na | na | 5 | 116 | 105 | 63 | 45 | 46 | 39 | 38 | 45 | 39 | 47 | 42 |
| Near East/North Africa..... | 7,896 | 8,400 | 8,241 | 8,153 | 8,423 | 8,830 | 9,141 | 9,647 | 9,706 | 10,063 | 10,522 | 10,752 | 11,111 | 11,802 | 11,987 | 13,465 |
| Algeria..... | 66 | 73 | 98 | 106 | 120 | 123 | 125 | 151 | 156 | 151 | 165 | 179 | 204 | 225 | 240 | 285 |
| Egypt..... | 1,130 | 1,278 | 1,254 | 1,429 | 1,288 | 1,279 | 1,380 | 1,359 | 1,359 | 1,242 | 1,302 | 1,362 | 1,376 | 1,548 | 1,564 | 1,720 |
| Iran..... | 86 | 91 | 94 | 126 | 150 | 175 | 233 | 271 | 312 | 366 | 523 | 699 | 825 | 995 | 1,277 | 1,806 |
| Israel..... | 4,916 | 5,134 | 4,968 | 4,873 | 5,234 | 5,575 | 5,559 | 5,921 | 5,815 | 6,203 | 6,240 | 6,091 | 6,314 | 6,487 | 6,415 | 6,941 |
| Jordan..... | 161 | 174 | 176 | 148 | 135 | 130 | 144 | 153 | 167 | 193 | 217 | 245 | 242 | 240 | 237 | 263 |
| Kuwait..... | 304 | 326 | 368 | 209 | 104 | 112 | 186 | 166 | 240 | 210 | 251 | 298 | 243 | 257 | 234 | 244 |
| Lebanon..... | 54 | 61 | 29 | 47 | 52 | 54 | 62 | 56 | 68 | 96 | 111 | 129 | 139 | 202 | 158 | 223 |
| Morocco..... | 113 | 108 | 97 | 128 | 170 | 164 | 182 | 237 | 256 | 298 | 370 | 425 | 471 | 469 | 461 | 428 |
| Oman..... | 13 | 20 | 27 | 32 | 37 | 42 | 46 | 53 | 63 | 63 | 76 | 88 | 99 | 96 | 116 | 114 |
| Saudi Arabia..... | 569 | 577 | 644 | 613 | 653 | 713 | 734 | 781 | 754 | 682 | 700 | 637 | 595 | 580 | 581 | 573 |
| Syria..... | 19 | 28 | 34 | 31 | 49 | 49 | 48 | 47 | 52 | 60 | 42 | 60 | 56 | 61 | 54 | 67 |
| Tunisia..... | 96 | 107 | 104 | 121 | 131 | 91 | 135 | 147 | 159 | 206 | 230 | 269 | 278 | 344 | 361 | 452 |
| United Arab Emirates..... | 23 | 30 | 33 | 57 | 77 | 109 | 98 | 122 | 145 | 154 | 157 | 137 | 144 | 159 | 169 | 193 |
| All others..... | 346 | 394 | 314 | 235 | 222 | 214 | 208 | 183 | 159 | 140 | 138 | 132 | 124 | 138 | 120 | 158 |
| Central/South America..... | 5,632 | 6,404 | 6,886 | 7,052 | 7,923 | 7,990 | 8,525 | 9,547 | 10,468 | 11,522 | 12,900 | 14,250 | 14,747 | 16,355 | 17,122 | 18,933 |
| Argentina..... | 1,423 | 1,518 | 1,627 | 1,499 | 1,526 | 1,585 | 1,747 | 1,969 | 2,212 | 2,430 | 2,546 | 2,705 | 2,792 | 2,930 | 3,161 | 3,086 |
| Brazil..... | 1,766 | 2,117 | 2,374 | 2,640 | 3,107 | 2,885 | 3,073 | 3,471 | 3,830 | 4,362 | 5,202 | 5,950 | 6,195 | 7,205 | 7,650 | 8,684 |
| Chile..... | 682 | 745 | 830 | 819 | 835 | 877 | 798 | 899 | 928 | 974 | 987 | 1,062 | 1,100 | 1,203 | 1,260 | 1,500 |
| Colombia..... | 86 | 111 | 122 | 106 | 125 | 122 | 145 | 167 | 196 | 230 | 237 | 254 | 320 | 324 | 353 | 337 |
| Costa Rica..... | 55 | 55 | 54 | 55 | 62 | 61 | 66 | 70 | 72 | 78 | 73 | 76 | 82 | 92 | 94 | 84 |
| Cuba..... | 67 | 90 | 108 | 94 | 131 | 113 | 141 | 166 | 194 | 177 | 234 | 242 | 282 | 299 | 201 | 264 |

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S&E articles, by region and country/economy: 1988–2003

| Region and country/economy | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mexico | 884 | 1,046 | 1,038 | 1,082 | 1,336 | 1,502 | 1,663 | 1,901 | 2,124 | 2,271 | 2,615 | 2,925 | 2,950 | 3,209 | 3,307 | 3,747 |
| Peru | 68 | 67 | 77 | 70 | 73 | 66 | 64 | 68 | 72 | 71 | 71 | 60 | 77 | 93 | 87 | 129 |
| Uruguay | 42 | 50 | 57 | 64 | 81 | 91 | 84 | 98 | 115 | 133 | 136 | 159 | 158 | 155 | 151 | 194 |
| Venezuela..... | 292 | 328 | 314 | 329 | 377 | 395 | 420 | 430 | 432 | 484 | 528 | 523 | 509 | 535 | 525 | 563 |
| All others..... | 268 | 278 | 286 | 294 | 268 | 292 | 324 | 307 | 292 | 313 | 272 | 293 | 281 | 310 | 333 | 345 |
| Sub-Saharan Africa | 4,544 | 4,504 | 4,355 | 4,409 | 4,356 | 4,321 | 4,263 | 4,161 | 3,982 | 4,028 | 3,985 | 4,207 | 3,973 | 3,990 | 4,151 | 4,219 |
| Botswana..... | 9 | 20 | 17 | 18 | 20 | 28 | 19 | 34 | 45 | 38 | 38 | 50 | 58 | 59 | 71 | 76 |
| Cameroon..... | 35 | 41 | 46 | 54 | 58 | 75 | 84 | 73 | 60 | 81 | 77 | 71 | 76 | 75 | 108 | 123 |
| Ethiopia..... | 71 | 58 | 70 | 93 | 88 | 84 | 86 | 99 | 88 | 109 | 80 | 106 | 90 | 93 | 101 | 99 |
| Ghana..... | 37 | 36 | 40 | 47 | 72 | 52 | 67 | 65 | 77 | 88 | 67 | 85 | 95 | 90 | 73 | 83 |
| Kenya..... | 291 | 300 | 255 | 260 | 295 | 346 | 280 | 310 | 275 | 256 | 270 | 278 | 237 | 230 | 239 | 258 |
| Nigeria..... | 886 | 864 | 815 | 719 | 666 | 604 | 470 | 464 | 433 | 458 | 418 | 451 | 428 | 332 | 353 | 384 |
| Senegal Republic | na | na | na | na | 2 | na | 75 | 77 | 64 | 65 | 73 | 71 | 73 | 62 | 54 | 79 |
| South Africa | 2,523 | 2,499 | 2,406 | 2,552 | 2,419 | 2,377 | 2,459 | 2,364 | 2,282 | 2,237 | 2,268 | 2,366 | 2,237 | 2,327 | 2,427 | 2,364 |
| Tanzania..... | 64 | 71 | 69 | 77 | 93 | 94 | 105 | 92 | 107 | 100 | 91 | 104 | 100 | 87 | 87 | 86 |
| Uganda..... | 21 | 17 | 29 | 20 | 29 | 44 | 39 | 49 | 43 | 55 | 59 | 73 | 78 | 91 | 79 | 90 |
| Zimbabwe..... | 116 | 123 | 131 | 103 | 119 | 124 | 139 | 109 | 119 | 123 | 122 | 102 | 104 | 113 | 104 | 96 |
| All others..... | 488 | 476 | 478 | 466 | 495 | 494 | 439 | 425 | 392 | 417 | 421 | 452 | 398 | 431 | 453 | 481 |
| Other | | | | | | | | | | | | | | | | |
| Canada | 21,391 | 22,501 | 22,792 | 22,903 | 24,180 | 23,824 | 24,565 | 24,532 | 24,583 | 23,077 | 22,796 | 23,417 | 22,873 | 22,626 | 22,555 | 24,803 |
| Australia..... | 9,896 | 10,730 | 10,664 | 10,742 | 11,452 | 11,929 | 12,695 | 13,387 | 13,911 | 13,955 | 14,710 | 15,186 | 14,700 | 14,788 | 14,713 | 15,809 |
| New Zealand..... | 2,075 | 1,993 | 2,227 | 2,102 | 2,253 | 2,256 | 2,454 | 2,466 | 2,684 | 2,748 | 2,953 | 2,927 | 3,037 | 2,903 | 2,829 | 3,034 |
| All others..... | 83 | 78 | 70 | 71 | 70 | 81 | 74 | 69 | 49 | 58 | 57 | 75 | 55 | 53 | 54 | 52 |

na = not applicable

EU = European Union; USSR = Union of Soviet Socialist Republics

NOTES: Article counts from set of journals classified and covered by *Science Citation Index (SCI)* and *Social Sciences Citation Index (SSCI)*. Articles assigned to region/country/economy on basis of institutional address(es) listed on article. Articles on fractional-count basis, i.e., for articles with collaborating institutions from multiple countries/economies, each country/economy receives fractional credit on basis of proportion of its participating institutions. EU-15 consists of 15 EU countries before expansion of member countries on May 1, 2004. Countries with article output <0.01% of world output in 2003 grouped in "All others," except Luxembourg. Germany's output includes articles from former East Germany before 1992. China's output includes articles from Hong Kong economy before 2000. Czech Republic's output includes articles from former Czechoslovakia before 1996. Article output from former USSR included. Detail may not add to total because of rounding.

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