

Internationally coauthored S&E articles, by selected country/economy pairs: 2005

| Country/economy | World | United States | Austria | Belgium | Czech Republic | Denmark | Finland | France | Germany | Greece | Hungary | Ireland | Italy | Netherlands |
|---------------------|---------|---------------|---------|---------|----------------|---------|---------|--------|---------|--------|---------|---------|--------|-------------|
| World..... | 151,815 | 66,274 | 4,268 | 6,409 | 2,598 | 4,235 | 3,401 | 21,932 | 29,751 | 2,283 | 2,308 | 1,662 | 14,421 | 9,934 |
| United States..... | 66,274 | na | 995 | 1,474 | 542 | 1,196 | 908 | 5,635 | 8,941 | 751 | 643 | 417 | 4,761 | 3,023 |
| Austria..... | 4,268 | 995 | na | 174 | 160 | 127 | 108 | 498 | 1,591 | 72 | 148 | 26 | 502 | 269 |
| Belgium..... | 6,409 | 1,474 | 174 | na | 163 | 213 | 146 | 1,456 | 1,093 | 120 | 156 | 77 | 675 | 1,056 |
| Czech Republic..... | 2,598 | 542 | 160 | 163 | na | 66 | 81 | 477 | 669 | 71 | 83 | 64 | 270 | 185 |
| Denmark..... | 4,235 | 1,196 | 127 | 213 | 66 | na | 219 | 453 | 774 | 80 | 46 | 59 | 391 | 396 |
| Finland..... | 3,401 | 908 | 108 | 146 | 81 | 219 | na | 351 | 648 | 58 | 91 | 55 | 305 | 322 |
| France..... | 21,932 | 5,635 | 498 | 1,456 | 477 | 453 | 351 | na | 3,713 | 339 | 310 | 218 | 2,605 | 1,392 |
| Germany..... | 29,751 | 8,941 | 1,591 | 1,093 | 669 | 774 | 648 | 3,713 | na | 397 | 555 | 270 | 2,679 | 2,322 |
| Greece..... | 2,283 | 751 | 72 | 120 | 71 | 80 | 58 | 339 | 397 | na | 44 | 23 | 271 | 151 |
| Hungary..... | 2,308 | 643 | 148 | 156 | 83 | 46 | 91 | 310 | 555 | 44 | na | 25 | 224 | 136 |
| Ireland..... | 1,662 | 417 | 26 | 77 | 64 | 59 | 55 | 218 | 270 | 23 | 25 | na | 141 | 149 |
| Italy..... | 14,421 | 4,761 | 502 | 675 | 270 | 391 | 305 | 2,605 | 2,679 | 271 | 224 | 141 | na | 1,122 |
| Netherlands..... | 9,934 | 3,023 | 269 | 1,056 | 185 | 396 | 322 | 1,392 | 2,322 | 151 | 136 | 149 | 1,122 | na |
| Poland..... | 4,782 | 1,289 | 215 | 261 | 227 | 143 | 118 | 763 | 1,193 | 105 | 91 | 33 | 486 | 250 |
| Portugal..... | 2,344 | 448 | 97 | 131 | 60 | 78 | 84 | 397 | 342 | 42 | 45 | 22 | 226 | 158 |
| Spain..... | 10,379 | 2,757 | 264 | 502 | 160 | 311 | 238 | 1,909 | 1,697 | 194 | 143 | 113 | 1,583 | 762 |
| Sweden..... | 7,531 | 2,094 | 187 | 305 | 160 | 731 | 648 | 838 | 1,293 | 105 | 137 | 98 | 642 | 544 |
| United Kingdom..... | 28,209 | 8,880 | 564 | 1,119 | 390 | 877 | 683 | 3,369 | 4,350 | 509 | 337 | 652 | 2,668 | 2,197 |
| Norway..... | 2,837 | 873 | 87 | 111 | 60 | 367 | 240 | 375 | 448 | 58 | 30 | 45 | 280 | 327 |
| Switzerland..... | 8,667 | 2,655 | 424 | 427 | 192 | 233 | 236 | 1,632 | 2,591 | 147 | 108 | 67 | 1,147 | 664 |
| Turkey..... | 1,706 | 764 | 28 | 38 | 15 | 15 | 30 | 90 | 212 | 30 | 20 | 6 | 117 | 57 |
| China..... | 12,435 | 4,967 | 125 | 194 | 95 | 119 | 86 | 773 | 1,218 | 41 | 60 | 79 | 353 | 353 |
| India..... | 3,876 | 1,404 | 75 | 60 | 89 | 48 | 31 | 383 | 669 | 21 | 70 | 60 | 187 | 138 |
| Japan..... | 15,212 | 6,050 | 212 | 241 | 159 | 153 | 186 | 1,061 | 1,508 | 73 | 141 | 57 | 601 | 374 |
| Singapore..... | 1,940 | 596 | 14 | 18 | 6 | 14 | 16 | 55 | 111 | 1 | 2 | 9 | 43 | 31 |
| South Korea..... | 5,624 | 3,076 | 70 | 49 | 52 | 25 | 51 | 254 | 386 | 17 | 54 | 54 | 171 | 104 |
| Taiwan..... | 2,649 | 1,471 | 60 | 20 | 6 | 5 | 33 | 128 | 209 | 5 | 32 | 16 | 76 | 41 |
| Russia..... | 8,463 | 2,336 | 230 | 277 | 276 | 124 | 282 | 1,221 | 2,391 | 120 | 131 | 116 | 781 | 475 |
| Ukraine..... | 1,656 | 332 | 41 | 45 | 41 | 18 | 18 | 157 | 392 | 26 | 27 | 3 | 99 | 45 |
| Israel..... | 3,850 | 2,020 | 67 | 106 | 45 | 82 | 57 | 438 | 633 | 59 | 75 | 16 | 294 | 204 |
| Argentina..... | 2,059 | 695 | 27 | 31 | 41 | 23 | 12 | 230 | 253 | 7 | 19 | 34 | 142 | 79 |
| Brazil..... | 4,371 | 1,702 | 55 | 99 | 79 | 49 | 31 | 609 | 558 | 22 | 33 | 36 | 300 | 187 |
| Mexico..... | 2,528 | 1,082 | 15 | 54 | 50 | 15 | 12 | 282 | 212 | 28 | 17 | 40 | 133 | 88 |
| South Africa..... | 1,744 | 603 | 40 | 79 | 29 | 41 | 20 | 178 | 227 | 6 | 26 | 27 | 71 | 121 |
| Australia..... | 9,029 | 3,176 | 193 | 193 | 73 | 206 | 115 | 631 | 968 | 43 | 55 | 84 | 395 | 348 |
| Canada..... | 15,162 | 7,892 | 189 | 352 | 124 | 241 | 235 | 1,435 | 1,509 | 98 | 115 | 132 | 758 | 613 |
| New Zealand..... | 2,109 | 692 | 23 | 40 | 6 | 62 | 20 | 130 | 174 | 10 | 10 | 34 | 85 | 82 |

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| Country/economy | World | Poland | Portugal | Spain | Sweden | United Kingdom | Norway | Switzerland | Turkey | China | India | Japan | Singapore |
|---------------------|---------|--------|----------|--------|--------|----------------|--------|-------------|--------|--------|-------|--------|-----------|
| World..... | 151,815 | 4,782 | 2,344 | 10,379 | 7,531 | 28,209 | 2,837 | 8,667 | 1,706 | 12,435 | 3,876 | 15,212 | 1,940 |
| United States..... | 66,274 | 1,289 | 448 | 2,757 | 2,094 | 8,880 | 873 | 2,655 | 764 | 4,967 | 1,404 | 6,050 | 596 |
| Austria..... | 4,268 | 215 | 97 | 264 | 187 | 564 | 87 | 424 | 28 | 125 | 75 | 212 | 14 |
| Belgium..... | 6,409 | 261 | 131 | 502 | 305 | 1,119 | 111 | 427 | 38 | 194 | 60 | 241 | 18 |
| Czech Republic..... | 2,598 | 227 | 60 | 160 | 160 | 390 | 60 | 192 | 15 | 95 | 89 | 159 | 6 |
| Denmark..... | 4,235 | 143 | 78 | 311 | 731 | 877 | 367 | 233 | 15 | 119 | 48 | 153 | 14 |
| Finland..... | 3,401 | 118 | 84 | 238 | 648 | 683 | 240 | 236 | 30 | 86 | 31 | 186 | 16 |
| France..... | 21,932 | 763 | 397 | 1,909 | 838 | 3,369 | 375 | 1,632 | 90 | 773 | 383 | 1,061 | 55 |
| Germany..... | 29,751 | 1,193 | 342 | 1,697 | 1,293 | 4,350 | 448 | 2,591 | 212 | 1,218 | 669 | 1,508 | 111 |
| Greece..... | 2,283 | 105 | 42 | 194 | 105 | 509 | 58 | 147 | 30 | 41 | 21 | 73 | 1 |
| Hungary..... | 2,308 | 91 | 45 | 143 | 137 | 337 | 30 | 108 | 20 | 60 | 70 | 141 | 2 |
| Ireland..... | 1,662 | 33 | 22 | 113 | 98 | 652 | 45 | 67 | 6 | 79 | 60 | 57 | 9 |
| Italy..... | 14,421 | 486 | 226 | 1,583 | 642 | 2,668 | 280 | 1,147 | 117 | 353 | 187 | 601 | 43 |
| Netherlands..... | 9,934 | 250 | 158 | 762 | 544 | 2,197 | 327 | 664 | 57 | 353 | 138 | 374 | 31 |
| Poland..... | 4,782 | na | 71 | 290 | 269 | 566 | 114 | 300 | 22 | 136 | 126 | 328 | 18 |
| Portugal..... | 2,344 | 71 | na | 442 | 115 | 469 | 50 | 136 | 13 | 57 | 30 | 73 | 3 |
| Spain..... | 10,379 | 290 | 442 | na | 407 | 1,922 | 240 | 553 | 34 | 209 | 132 | 332 | 23 |
| Sweden..... | 7,531 | 269 | 115 | 407 | na | 1,391 | 514 | 365 | 37 | 351 | 106 | 366 | 43 |
| United Kingdom..... | 28,209 | 566 | 469 | 1,922 | 1,391 | na | 663 | 1,405 | 237 | 1,302 | 459 | 1,334 | 211 |
| Norway..... | 2,837 | 114 | 50 | 240 | 514 | 663 | na | 136 | 14 | 124 | 17 | 74 | 11 |
| Switzerland..... | 8,667 | 300 | 136 | 553 | 365 | 1,405 | 136 | na | 48 | 210 | 158 | 399 | 20 |
| Turkey..... | 1,706 | 22 | 13 | 34 | 37 | 237 | 14 | 48 | na | 30 | 6 | 96 | 4 |
| China..... | 12,435 | 136 | 57 | 209 | 351 | 1,302 | 124 | 210 | 30 | na | 268 | 1,948 | 601 |
| India..... | 3,876 | 126 | 30 | 132 | 106 | 459 | 17 | 158 | 6 | 268 | na | 508 | 57 |
| Japan..... | 15,212 | 328 | 73 | 332 | 366 | 1,334 | 74 | 399 | 96 | 1,948 | 508 | na | 107 |
| Singapore..... | 1,940 | 18 | 3 | 23 | 43 | 211 | 11 | 20 | 4 | 601 | 57 | 107 | na |
| South Korea..... | 5,624 | 111 | 15 | 111 | 93 | 377 | 13 | 158 | 16 | 556 | 264 | 1,138 | 34 |
| Taiwan..... | 2,649 | 81 | 5 | 70 | 46 | 187 | 5 | 128 | 6 | 405 | 176 | 442 | 63 |
| Russia..... | 8,463 | 508 | 130 | 429 | 426 | 995 | 204 | 465 | 48 | 361 | 195 | 749 | 12 |
| Ukraine..... | 1,656 | 226 | 17 | 77 | 63 | 134 | 11 | 46 | 18 | 15 | 14 | 77 | 6 |
| Israel..... | 3,850 | 84 | 33 | 167 | 110 | 381 | 51 | 147 | 56 | 116 | 65 | 155 | 14 |
| Argentina..... | 2,059 | 17 | 34 | 403 | 48 | 176 | 12 | 34 | 5 | 46 | 43 | 41 | 4 |
| Brazil..... | 4,371 | 63 | 157 | 260 | 126 | 583 | 31 | 121 | 22 | 140 | 133 | 183 | 13 |
| Mexico..... | 2,528 | 47 | 20 | 352 | 72 | 246 | 7 | 50 | 9 | 74 | 72 | 65 | 7 |
| South Africa..... | 1,744 | 49 | 14 | 61 | 61 | 378 | 31 | 68 | 7 | 53 | 39 | 48 | 7 |
| Australia..... | 9,029 | 139 | 45 | 258 | 336 | 1,874 | 106 | 336 | 31 | 791 | 180 | 612 | 199 |
| Canada..... | 15,162 | 220 | 69 | 549 | 463 | 2,025 | 271 | 482 | 53 | 921 | 198 | 789 | 101 |
| New Zealand..... | 2,109 | 21 | 11 | 53 | 63 | 526 | 32 | 52 | 8 | 80 | 15 | 107 | 31 |

Internationally coauthored S&E articles, by selected country/economy pairs: 2005

| Country/economy | World | South Korea | Taiwan | Russia | Ukraine | Israel | Argentina | Brazil | Mexico | South Africa | Australia | Canada | New Zealand |
|---------------------|---------|-------------|--------|--------|---------|--------|-----------|--------|--------|--------------|-----------|--------|-------------|
| World..... | 151,815 | 5,624 | 2,649 | 8,463 | 1,656 | 3,850 | 2,059 | 4,371 | 2,528 | 1,744 | 9,029 | 15,162 | 2,109 |
| United States..... | 66,274 | 3,076 | 1,471 | 2,336 | 332 | 2,020 | 695 | 1,702 | 1,082 | 603 | 3,176 | 7,892 | 692 |
| Austria..... | 4,268 | 70 | 60 | 230 | 41 | 67 | 27 | 55 | 15 | 40 | 193 | 189 | 23 |
| Belgium..... | 6,409 | 49 | 20 | 277 | 45 | 106 | 31 | 99 | 54 | 79 | 193 | 352 | 40 |
| Czech Republic..... | 2,598 | 52 | 6 | 276 | 41 | 45 | 41 | 79 | 50 | 29 | 73 | 124 | 6 |
| Denmark..... | 4,235 | 25 | 5 | 124 | 18 | 82 | 23 | 49 | 15 | 41 | 206 | 241 | 62 |
| Finland..... | 3,401 | 51 | 33 | 282 | 18 | 57 | 12 | 31 | 12 | 20 | 115 | 235 | 20 |
| France..... | 21,932 | 254 | 128 | 1,221 | 157 | 438 | 230 | 609 | 282 | 178 | 631 | 1,435 | 130 |
| Germany..... | 29,751 | 386 | 209 | 2,391 | 392 | 633 | 253 | 558 | 212 | 227 | 968 | 1,509 | 174 |
| Greece..... | 2,283 | 17 | 5 | 120 | 26 | 59 | 7 | 22 | 28 | 6 | 43 | 98 | 10 |
| Hungary..... | 2,308 | 54 | 32 | 131 | 27 | 75 | 19 | 33 | 17 | 26 | 55 | 115 | 10 |
| Ireland..... | 1,662 | 54 | 16 | 116 | 3 | 16 | 34 | 36 | 40 | 27 | 84 | 132 | 34 |
| Italy..... | 14,421 | 171 | 76 | 781 | 99 | 294 | 142 | 300 | 133 | 71 | 395 | 758 | 85 |
| Netherlands..... | 9,934 | 104 | 41 | 475 | 45 | 204 | 79 | 187 | 88 | 121 | 348 | 613 | 82 |
| Poland..... | 4,782 | 111 | 81 | 508 | 226 | 84 | 17 | 63 | 47 | 49 | 139 | 220 | 21 |
| Portugal..... | 2,344 | 15 | 5 | 130 | 17 | 33 | 34 | 157 | 20 | 14 | 45 | 69 | 11 |
| Spain..... | 10,379 | 111 | 70 | 429 | 77 | 167 | 403 | 260 | 352 | 61 | 258 | 549 | 53 |
| Sweden..... | 7,531 | 93 | 46 | 426 | 63 | 110 | 48 | 126 | 72 | 61 | 336 | 463 | 63 |
| United Kingdom..... | 28,209 | 377 | 187 | 995 | 134 | 381 | 176 | 583 | 246 | 378 | 1,874 | 2,025 | 526 |
| Norway..... | 2,837 | 13 | 5 | 204 | 11 | 51 | 12 | 31 | 7 | 31 | 106 | 271 | 32 |
| Switzerland..... | 8,667 | 158 | 128 | 465 | 46 | 147 | 34 | 121 | 50 | 68 | 336 | 482 | 52 |
| Turkey..... | 1,706 | 16 | 6 | 48 | 18 | 56 | 5 | 22 | 9 | 7 | 31 | 53 | 8 |
| China..... | 12,435 | 556 | 405 | 361 | 15 | 116 | 46 | 140 | 74 | 53 | 791 | 921 | 80 |
| India..... | 3,876 | 264 | 176 | 195 | 14 | 65 | 43 | 133 | 72 | 39 | 180 | 198 | 15 |
| Japan..... | 15,212 | 1,138 | 442 | 749 | 77 | 155 | 41 | 183 | 65 | 48 | 612 | 789 | 107 |
| Singapore..... | 1,940 | 34 | 63 | 12 | 6 | 14 | 4 | 13 | 7 | 7 | 199 | 101 | 31 |
| South Korea..... | 5,624 | na | 190 | 369 | 34 | 67 | 33 | 75 | 62 | 14 | 171 | 332 | 33 |
| Taiwan..... | 2,649 | 190 | na | 170 | 7 | 35 | 2 | 36 | 16 | 7 | 132 | 176 | 16 |
| Russia..... | 8,463 | 369 | 170 | na | 267 | 189 | 45 | 175 | 127 | 22 | 183 | 442 | 21 |
| Ukraine..... | 1,656 | 34 | 7 | 267 | na | 49 | 3 | 22 | 29 | 2 | 26 | 45 | 1 |
| Israel..... | 3,850 | 67 | 35 | 189 | 49 | na | 23 | 62 | 37 | 25 | 127 | 247 | 34 |
| Argentina..... | 2,059 | 33 | 2 | 45 | 3 | 23 | na | 297 | 105 | 24 | 48 | 125 | 14 |
| Brazil..... | 4,371 | 75 | 36 | 175 | 22 | 62 | 297 | na | 133 | 37 | 134 | 312 | 25 |
| Mexico..... | 2,528 | 62 | 16 | 127 | 29 | 37 | 105 | 133 | na | 16 | 63 | 194 | 12 |
| South Africa..... | 1,744 | 14 | 7 | 22 | 2 | 25 | 24 | 37 | 16 | na | 171 | 133 | 34 |
| Australia..... | 9,029 | 171 | 132 | 183 | 26 | 127 | 48 | 134 | 63 | 171 | na | 745 | 530 |
| Canada..... | 15,162 | 332 | 176 | 442 | 45 | 247 | 125 | 312 | 194 | 133 | 745 | na | 158 |
| New Zealand..... | 2,109 | 33 | 16 | 21 | 1 | 34 | 14 | 25 | 12 | 34 | 530 | 158 | na |

na = not applicable

NOTES: Each country in matrix accounts for 1% or more of internationally coauthored articles in 2005. Article counts from set of journals covered by Science Citation Index (SCI) and Social Sciences Citation Index (SSCI). Articles classified by year they entered database, rather than year of publication, and assigned to region/country/economy on basis of institutional address(es) listed on article. Articles on whole count basis, i.e., each collaborating country/economy credited one count. Detail adds to more than world total because of articles with three or more country coauthors.

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