

***Pseudo ranking of 112 US higher Education and research institutions in all disciplines***

***When all publications are considered ( $\phi = 1$ )***

***When direct 3-years citations are used to account for publications impact***

| <b>Institution</b> | <b>Strong dominance Rank</b> | <b>Strong dominance Importance</b> | <b>Dominance Rank</b> | <b>Dominance Importance</b> | <b>Weak dominance Rank</b> | <b>Weak dominance Importance</b> |
|--------------------|------------------------------|------------------------------------|-----------------------|-----------------------------|----------------------------|----------------------------------|
| Harvard            | 8                            | .06631262979540                    | 1                     | .71403332360848             | 1                          | .71836372786341                  |
| Stanford           | 10                           | .02946234989562                    | 2                     | .09932232139276             | 2                          | .11430916521577                  |
| Seattle            | 1                            | .14607546280401                    | 3                     | .06193494994972             | 3                          | .05222541340007                  |
| UCLA               | 2                            | .11863883565147                    | 3                     | .06193494994972             | 3                          | .05222541340007                  |
| UM_Ann_Arbor       | 3                            | .11105727038510                    | 5                     | .03450211911929             | 5                          | .02611270670003                  |
| Berkeley           | 12                           | .01455243470577                    | 6                     | .01725105955964             | 5                          | .02611270670003                  |
| Johns_Hopkins      | 18                           | .00503451681735                    | 7                     | .00685820770761             | 8                          | .00435211778334                  |
| MIT                | 30                           | .00056601076645                    | 8                     | .00144262616187             | 7                          | .00492916920781                  |
| Pennsylvania       | 24                           | .00135048182872                    | 9                     | .00124469322889             | 9                          | .00100433487308                  |
| WI_Madison         | 5                            | .09525365398508                    | 10                    | .00100989832698             | 10                         | .00012300057440                  |
| Columbia           | 17                           | .00582395288634                    | 11                    | .00011316591353             | 11                         | .00009989854470                  |
| UCSD               | 20                           | .00432327960425                    | 12                    | .00010123029731             | 12                         | .00007614321272                  |
| Cornell            | 9                            | .06196328390585                    | 13                    | .00008068630453             | 15                         | .00001300006071                  |
| Twin_Cities        | 4                            | .10965713848916                    | 13                    | .00008068630453             | 13                         | .00001974083293                  |
| UCSF               | 31                           | .00043940309501                    | 15                    | .00005895520920             | 14                         | .00001903580318                  |
| Yale               | 21                           | .00298496204200                    | 16                    | .00001355907399             | 16                         | .00001152145170                  |
| Duke               | 15                           | .00793408074371                    | 17                    | .00000402398325             | 17                         | .00000090111913                  |
| Pittsburgh         | 43                           | .00007873082090                    | 18                    | .00000401841889             | 18                         | .00000085457125                  |
| Urbana_Champaign   | 11                           | .02408524761437                    | 19                    | .00000356398402             | 19                         | .00000042728563                  |
| Florida            | 6                            | .07693277917638                    | 20                    | .00000275443305             | 24                         | .00000003045377                  |
| UC_Davis           | 7                            | .06829366747796                    | 21                    | .00000129696886             | 23                         | .00000008107903                  |
| Caltech            | 42                           | .00008440511429                    | 22                    | .00000074931259             | 20                         | .00000035621429                  |
| Northwestern       | 37                           | .00013554468354                    | 23                    | .00000039002103             | 22                         | .00000009011191                  |
| WU_St_Louis        | 27                           | .00099548384801                    | 24                    | .00000028394169             | 21                         | .00000012675860                  |
| UNC                | 22                           | .00189415006491                    | 25                    | .00000023141248             | 25                         | .00000002759629                  |
| PA_Univ_Park       | 13                           | .01394173887882                    | 26                    | .00000010583426             | 27                         | .00000000286111                  |
| Columbus           | 14                           | .01359418840819                    | 27                    | .00000010201604             | 28                         | .00000000161522                  |
| Mayo_Coll_Med      | 49                           | .00005213257059                    | 28                    | .00000003394804             | 26                         | .00000000369955                  |
| Arizona            | 19                           | .00471427388370                    | 29                    | .00000000423716             | 31                         | .00000000019383                  |
| Texas_AM           | 16                           | .00594311304770                    | 30                    | .00000000269509             | 34                         | .00000000002055                  |
| Austin             | 34                           | .00026385464301                    | 31                    | .00000000263323             | 30                         | .00000000026412                  |
| Chicago            | 35                           | .00015817092847                    | 32                    | .00000000259915             | 29                         | .00000000041706                  |
| USC                | 53                           | .00003527767935                    | 33                    | .00000000092360             | 33                         | .00000000002775                  |
| Vanderbilt         | 54                           | .00003341315335                    | 34                    | .00000000014248             | 35                         | .00000000001310                  |
| TX_Anderson        | 75                           | .00000446850605                    | 35                    | .00000000009529             | 32                         | .00000000006061                  |
| UC_Irvine          | 45                           | .00006994183384                    | 36                    | .00000000008262             | 37                         | .00000000000365                  |
| Iowa               | 32                           | .00037914596796                    | 37                    | .00000000003227             | 40                         | .00000000000025                  |
| Purdue             | 29                           | .00073879300042                    | 37                    | .00000000003227             | 40                         | .00000000000025                  |
| Princeton          | 61                           | .00002068752801                    | 39                    | .00000000002751             | 36                         | .00000000000511                  |

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| Institution         | Strong dominance Rank | Strong dominance Importance | Dominance Rank | Dominance Importance | Weak dominance Rank | Weak dominance Importance |
|---------------------|-----------------------|-----------------------------|----------------|----------------------|---------------------|---------------------------|
| MD_Coll_Park        | 36                    | .00015009597248             | 40             | .00000000002297      | 46                  | .00000000000009           |
| Georgia_Inst_Tech   | 55                    | .00003310004482             | 41             | .00000000001730      | 47                  | .00000000000009           |
| UCSB                | 67                    | .00001117126513             | 42             | .00000000001362      | 39                  | .00000000000120           |
| Emory               | 41                    | .00008548446358             | 43             | .00000000001111      | 38                  | .00000000000178           |
| Utah                | 33                    | .00030960363353             | 44             | .00000000001087      | 48                  | .00000000000004           |
| Baylor_Coll_Med     | 71                    | .00000912920591             | 45             | .00000000001012      | 42                  | .00000000000025           |
| NYU                 | 56                    | .00003221481106             | 45             | .00000000001012      | 42                  | .00000000000025           |
| Boston              | 48                    | .00005341662406             | 47             | .00000000000891      | 44                  | .00000000000018           |
| Virginia            | 47                    | .00005647695148             | 48             | .00000000000701      | 45                  | .00000000000009           |
| Michigan            | 23                    | .00164589972875             | 49             | .00000000000310      | 51                  | .00000000000000           |
| Raleigh             | 25                    | .00108733647239             | 50             | .00000000000040      | 56                  | .00000000000000           |
| CO_Boulder          | 40                    | .00009309387606             | 51             | .00000000000033      | 50                  | .00000000000001           |
| Iowa_State          | 28                    | .00078943606899             | 52             | .00000000000031      | 53                  | .00000000000000           |
| Texas_SW_Med_Center | 81                    | .00000102724277             | 53             | .00000000000027      | 49                  | .00000000000001           |
| New_Brunswick       | 44                    | .00007387930004             | 54             | .00000000000017      | 54                  | .00000000000000           |
| Rochester           | 66                    | .00001123659416             | 54             | .00000000000017      | 52                  | .00000000000000           |
| CWRU                | 69                    | .00001034376401             | 56             | .00000000000017      | 55                  | .00000000000000           |
| Birmingham          | 58                    | .00002932457096             | 57             | .00000000000013      | 56                  | .00000000000000           |
| Cincinnati          | 68                    | .00001078604909             | 58             | .00000000000001      | 58                  | .00000000000000           |
| CO_Health           | 80                    | .00000181646587             | 59             | .00000000000001      | 59                  | .00000000000000           |
| IL_Chicago          | 46                    | .00006834185725             | 60             | .00000000000000      | 61                  | .00000000000000           |
| Stony_Brook         | 72                    | .00000548136742             | 61             | .00000000000000      | 60                  | .00000000000000           |
| Georgia             | 26                    | .00101782637826             | 62             | .00000000000000      | 67                  | .00000000000000           |
| MD_Baltimore        | 70                    | .00000955949056             | 63             | .00000000000000      | 62                  | .00000000000000           |
| Miami               | 49                    | .00005213257059             | 64             | .00000000000000      | 69                  | .00000000000000           |
| UC_Riverside        | 59                    | .00002708185485             | 65             | .00000000000000      | 66                  | .00000000000000           |
| Tufts               | 79                    | .00000211413190             | 66             | .00000000000000      | 65                  | .00000000000000           |
| Carnegie_Mellon     | 83                    | .00000066200090             | 67             | .00000000000000      | 63                  | .00000000000000           |
| Mt_Sinai            | 89                    | .00000024024226             | 68             | .00000000000000      | 64                  | .00000000000000           |
| MA_Amherst          | 60                    | .00002102826377             | 69             | .00000000000000      | 68                  | .00000000000000           |
| AZ_Tempe            | 57                    | .00003211738724             | 70             | .00000000000000      | 71                  | .00000000000000           |
| OR_Health_Sci       | 86                    | .00000053469303             | 71             | .00000000000000      | 70                  | .00000000000000           |
| CO_State            | 39                    | .00010291104845             | 72             | .00000000000000      | 71                  | .00000000000000           |
| Virginia_Tech       | 51                    | .00004333096777             | 73             | .00000000000000      | 78                  | .00000000000000           |
| Delaware            | 64                    | .00001370341856             | 74             | .00000000000000      | 74                  | .00000000000000           |
| Yeshiva             | 92                    | .00000016016151             | 75             | .00000000000000      | 73                  | .00000000000000           |
| Rice                | 87                    | .00000041375056             | 76             | .00000000000000      | 75                  | .00000000000000           |
| Brown               | 74                    | .00000460670727             | 77             | .00000000000000      | 77                  | .00000000000000           |
| Rockefeller         | 98                    | .00000003090253             | 78             | .00000000000000      | 76                  | .00000000000000           |

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|----------------------|-----------------------|-----------------------------|----------------|----------------------|---------------------|---------------------------|
| Oregon_State         | 38                    | .00011543640631             | 79             | .00000000000000      | 79                  | .00000000000000           |
| Virginia_Comm        | 88                    | .00000034063456             | 80             | .00000000000000      | 81                  | .00000000000000           |
| TN_Knoxville         | 62                    | .00001986002689             | 81             | .00000000000000      | 83                  | .00000000000000           |
| Bloomington          | 76                    | .00000308635553             | 82             | .00000000000000      | 80                  | .00000000000000           |
| Albuquerque          | 63                    | .00001544668758             | 83             | .00000000000000      | 83                  | .00000000000000           |
| Wake_Forest          | 84                    | .00000063233576             | 84             | .00000000000000      | 85                  | .00000000000000           |
| MA_Med_Sch           | 99                    | .00000002307517             | 85             | .00000000000000      | 82                  | .00000000000000           |
| CT_Storrs            | 73                    | .00000511321588             | 86             | .00000000000000      | 86                  | .00000000000000           |
| UMDNJ                | 82                    | .00000085603564             | 87             | .00000000000000      | 88                  | .00000000000000           |
| Lincoln              | 64                    | .00001370341856             | 88             | .00000000000000      | 90                  | .00000000000000           |
| Notre_Dame           | 90                    | .00000022107637             | 89             | .00000000000000      | 87                  | .00000000000000           |
| Manoa                | 52                    | .00004282318299             | 90             | .00000000000000      | 91                  | .00000000000000           |
| Dartmouth_Coll       | 78                    | .00000214115915             | 91             | .00000000000000      | 89                  | .00000000000000           |
| Florida_State        | 77                    | .00000303172977             | 92             | .00000000000000      | 92                  | .00000000000000           |
| Santa_Cruz           | 85                    | .00000058248682             | 93             | .00000000000000      | 93                  | .00000000000000           |
| WI_Med_Coll          | 97                    | .00000004267914             | 94             | .00000000000000      | 95                  | .00000000000000           |
| TX_Health_SA         | 103                   | .00000001144890             | 95             | .00000000000000      | 94                  | .00000000000000           |
| Rensselaer           | 91                    | .00000018647913             | 96             | .00000000000000      | 96                  | .00000000000000           |
| Health_Houston       | 94                    | .00000006532904             | 97             | .00000000000000      | 97                  | .00000000000000           |
| CT_Health            | 102                   | .00000001551565             | 98             | .00000000000000      | 98                  | .00000000000000           |
| George_Washington    | 96                    | .00000006399579             | 99             | .00000000000000      | 101                 | .00000000000000           |
| TN_Health            | 100                   | .00000002109776             | 99             | .00000000000000      | 99                  | .00000000000000           |
| Oregon               | 95                    | .00000006466724             | 101            | .00000000000000      | 100                 | .00000000000000           |
| Boston_Coll          | 107                   | .00000000503210             | 102            | .00000000000000      | 102                 | .00000000000000           |
| NE_Med               | 101                   | .00000001891431             | 103            | .00000000000000      | 104                 | .00000000000000           |
| SUNY_Albany          | 93                    | .00000007059251             | 104            | .00000000000000      | 105                 | .00000000000000           |
| Brandeis             | 108                   | .00000000389412             | 105            | .00000000000000      | 103                 | .00000000000000           |
| George_Mason         | 104                   | .00000000916335             | 106            | .00000000000000      | 106                 | .00000000000000           |
| SUNY_Health_Brooklyn | 111                   | .00000000131803             | 107            | .00000000000000      | 107                 | .00000000000000           |
| CUNY                 | 105                   | .00000000518719             | 108            | .00000000000000      | 108                 | .00000000000000           |
| Rutgers_Newark       | 110                   | .00000000197337             | 109            | .00000000000000      | 109                 | .00000000000000           |
| Polytech_Brooklyn    | 112                   | .00000000086659             | 110            | .00000000000000      | 110                 | .00000000000000           |
| So_Methodist         | 109                   | .00000000243701             | 110            | .00000000000000      | 110                 | .00000000000000           |
| MA_Boston            | 106                   | .00000000505087             | 112            | .00000000000000      | 112                 | .00000000000000           |