

***Pseudo ranking of 112 US higher Education and research institutions in engineering sciences
When all publications are considered ($\phi = 1$)
When direct 3-years citations are used to account for publications impact***

Institution	Strong dominance Rank	Strong dominance Importance	Dominance Rank	Dominance Importance	Weak dominance Rank	Weak dominance Importance
MIT	1	.47641919884062	1	.73397283036124	1	.73681358026700
Urbana_Champaign	2	.22919407526822	2	.15151640489249	2	.16179984876627
Stanford	5	.03441772154414	3	.04614897078275	3	.04480709260095
Berkeley	4	.08919484024206	4	.03787910122312	4	.03652061551549
Georgia_Inst_Tech	3	.12994843293572	5	.01780463461289	5	.00785869335216
UM_Ann_Arbor	6	.01693479826136	6	.00740230791587	6	.00705853460751
UCLA	12	.00190282192001	7	.00220768775596	7	.00228313300338
Austin	9	.00305637695416	8	.00069638429003	8	.00069537509587
Carnegie_Mellon	8	.00372106472408	9	.00062674586103	10	.00056894326026
PA_Univ_Park	10	.00302566289469	10	.00061523760448	8	.00069537509587
Twin_Cities	15	.00067304212345	11	.00055013003395	11	.00051572891540
Purdue	7	.00667244240462	12	.00044116910365	12	.00029096681624
Texas_AM	11	.00194900454499	13	.00004290131779	17	.00001072780016
UCSD	13	.00086070961368	14	.00002674538322	13	.00001976241961
Columbus	14	.00071093820608	15	.00002174604920	15	.00001534265441
MD_Coll_Park	16	.00042408067579	16	.00001872615820	18	.00000893446250
Caltech	19	.00015868468911	17	.00001226712485	13	.00001976241961
UCSB	20	.00010637612105	18	.00000895327910	16	.00001336798096
WI_Madison	18	.00018923457295	19	.00000306040695	19	.00000170189414
Princeton	27	.00001180061814	20	.00000161893594	20	.00000135123431
Florida	17	.00019627976528	21	.00000061625725	23	.00000021913597
UC_Davis	25	.00002255658105	22	.00000041870881	22	.00000028449549
Cornell	21	.00006052430956	23	.00000041327004	21	.00000031632748
Virginia_Tech	23	.00004172530072	24	.00000031998304	27	.00000001539179
Seattle	24	.00002966137798	25	.00000018398592	25	.00000005609447
USC	22	.00004311720073	26	.00000017473771	26	.00000002493647
Northwestern	28	.00000469047960	27	.00000014482991	24	.00000021794102
Raleigh	26	.00001586917092	28	.00000005647770	29	.00000000788554
UC_Irvine	30	.00000167390256	29	.00000002724486	28	.00000001247182
CO_Boulder	31	.00000154996278	30	.00000000557695	30	.00000000384336
Arizona	34	.00000089885810	31	.00000000454030	34	.00000000048697
Columbia	32	.00000106702630	32	.00000000368795	32	.00000000065059
Rensselaer	35	.00000083306665	33	.00000000201159	35	.00000000047444
Harvard	42	.00000020925262	34	.00000000172115	33	.00000000053478
Delaware	37	.00000050606111	35	.00000000157467	31	.00000000093284
New_Brunswick	29	.00000453983633	36	.00000000067868	36	.00000000008990
Iowa_State	33	.00000090364677	37	.00000000040568	38	.00000000002310
AZ_Tempe	36	.00000056221636	38	.00000000031222	42	.00000000000505
Michigan	38	.00000047123526	39	.00000000028772	39	.00000000002027

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Pennsylvania	41	.00000023744173	40	.00000000027305	37	.00000000006381
Johns_Hopkins	40	.00000025046742	41	.00000000017353	41	.00000000001239
Duke	39	.00000033970309	42	.00000000013810	40	.00000000001759
Iowa	48	.00000001187068	43	.00000000001087	43	.00000000000114
Virginia	46	.00000002752493	44	.00000000000629	44	.00000000000052
CT_Storrs	45	.00000003318830	45	.00000000000564	45	.00000000000041
Utah	47	.00000001641801	46	.00000000000261	49	.00000000000006
Lincoln	44	.00000003707135	47	.00000000000094	50	.00000000000004
UNC	55	.00000000246613	48	.00000000000091	46	.00000000000022
Rice	51	.00000000405270	49	.00000000000073	52	.00000000000002
IL_Chicago	43	.00000006054407	50	.00000000000072	54	.00000000000001
Yale	52	.00000000370113	51	.00000000000045	48	.00000000000007
Notre_Dame	54	.00000000266554	52	.00000000000033	53	.00000000000002
Brown	56	.00000000219067	53	.00000000000023	51	.00000000000004
NYU	62	.00000000104390	53	.00000000000023	47	.00000000000016
Florida_State	61	.00000000114702	55	.00000000000018	55	.00000000000001
Pittsburgh	49	.00000000559840	56	.00000000000011	56	.00000000000000
Boston	53	.00000000312264	57	.00000000000006	57	.00000000000000
Cincinnati	64	.00000000097211	58	.00000000000004	61	.00000000000000
WU_St_Louis	59	.00000000125418	59	.00000000000003	58	.00000000000000
MA_Amherst	50	.00000000517803	60	.00000000000003	62	.00000000000000
UC_Riverside	63	.00000000097532	61	.00000000000002	59	.00000000000000
TN_Knoxville	57	.00000000144639	62	.00000000000002	60	.00000000000000
Vanderbilt	58	.00000000132310	63	.00000000000001	63	.00000000000000
Stony_Brook	60	.00000000120946	64	.00000000000001	64	.00000000000000
Albuquerque	69	.00000000006356	65	.00000000000000	66	.00000000000000
Bloomington	66	.00000000015983	66	.00000000000000	65	.00000000000000
Oregon_State	67	.00000000014906	67	.00000000000000	67	.00000000000000
Rochester	71	.00000000004539	68	.00000000000000	68	.00000000000000
CO_State	68	.00000000011144	69	.00000000000000	69	.00000000000000
CWRU	65	.00000000038155	70	.00000000000000	69	.00000000000000
Manoa	75	.00000000000841	71	.00000000000000	72	.00000000000000
Chicago	76	.00000000000519	72	.00000000000000	71	.00000000000000
Georgia	77	.00000000000448	72	.00000000000000	73	.00000000000000
Miami	74	.00000000000881	74	.00000000000000	74	.00000000000000
George_Mason	70	.00000000004643	75	.00000000000000	78	.00000000000000
Polytech_Brooklyn	73	.00000000000948	76	.00000000000000	75	.00000000000000
Santa_Cruz	72	.00000000001189	76	.00000000000000	75	.00000000000000
Dartmouth_Coll	78	.00000000000392	78	.00000000000000	77	.00000000000000

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CUNY	80	.00000000000282	79	.00000000000000	79	.00000000000000
George_Washington	79	.00000000000315	80	.00000000000000	82	.00000000000000
So_Methodist	81	.00000000000180	81	.00000000000000	80	.00000000000000
SUNY_Albany	82	.00000000000019	82	.00000000000000	83	.00000000000000
TX_Anderson	84	.00000000000014	83	.00000000000000	81	.00000000000000
UCSF	85	.00000000000008	84	.00000000000000	84	.00000000000000
OR_Health_Sci	90	.00000000000004	85	.00000000000000	86	.00000000000000
Tufts	85	.00000000000008	85	.00000000000000	85	.00000000000000
MD_Baltimore	83	.00000000000016	87	.00000000000000	87	.00000000000000
Emory	88	.00000000000004	88	.00000000000000	88	.00000000000000
Mayo_Coll_Med	95	.00000000000001	89	.00000000000000	89	.00000000000000
CO_Health	89	.00000000000004	90	.00000000000000	92	.00000000000000
Virginia_Comm	87	.00000000000006	91	.00000000000000	91	.00000000000000
Boston_Coll	93	.00000000000002	92	.00000000000000	90	.00000000000000
Wake_Forest	96	.00000000000001	93	.00000000000000	93	.00000000000000
UMDNJ	97	.00000000000001	94	.00000000000000	94	.00000000000000
Brandeis	92	.00000000000002	95	.00000000000000	95	.00000000000000
Birmingham	91	.00000000000003	96	.00000000000000	96	.00000000000000
Oregon	94	.00000000000002	97	.00000000000000	97	.00000000000000
Baylor_Coll_Med	99	.00000000000000	98	.00000000000000	101	.00000000000000
Mt_Sinai	98	.00000000000000	99	.00000000000000	98	.00000000000000
Rockefeller	101	.00000000000000	99	.00000000000000	98	.00000000000000
Texas_SW_Med_Center	100	.00000000000000	99	.00000000000000	98	.00000000000000
Health_Houston	103	.00000000000000	102	.00000000000000	102	.00000000000000
Rutgers_Newark	104	.00000000000000	103	.00000000000000	104	.00000000000000
MA_Boston	102	.00000000000000	104	.00000000000000	103	.00000000000000
WI_Med_Coll	109	.00000000000000	105	.00000000000000	105	.00000000000000
TN_Health	110	.00000000000000	106	.00000000000000	106	.00000000000000
MA_Med_Sch	105	.00000000000000	107	.00000000000000	108	.00000000000000
TX_Health_SA	108	.00000000000000	108	.00000000000000	109	.00000000000000
Yeshiva	106	.00000000000000	109	.00000000000000	107	.00000000000000
NE_Med	107	.00000000000000	110	.00000000000000	111	.00000000000000
SUNY_Health_Brooklyn	111	.00000000000000	111	.00000000000000	110	.00000000000000
CT_Health	112	.00000000000000	112	.00000000000000	112	.00000000000000