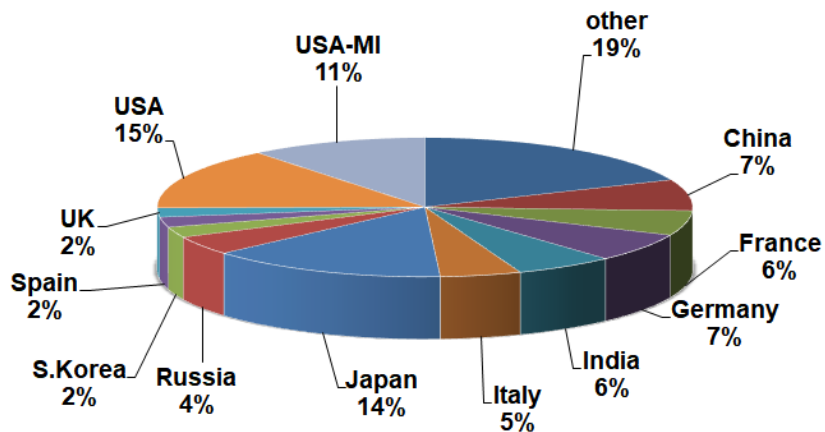
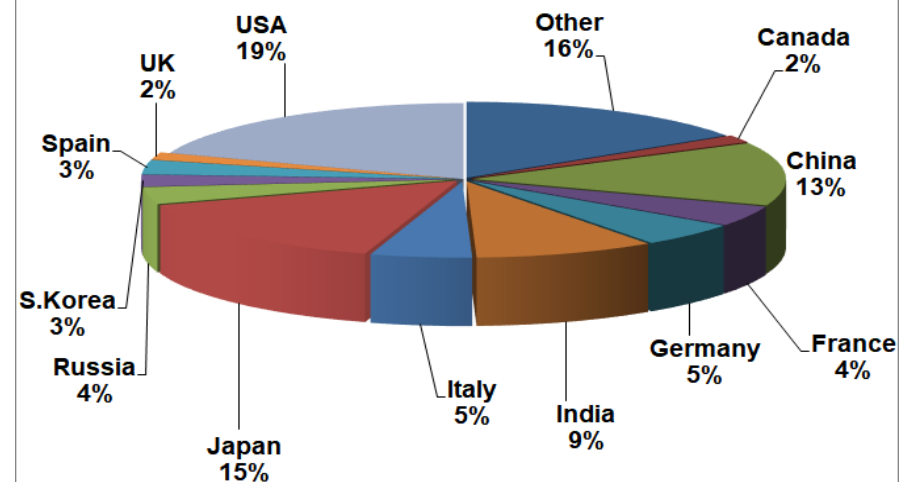


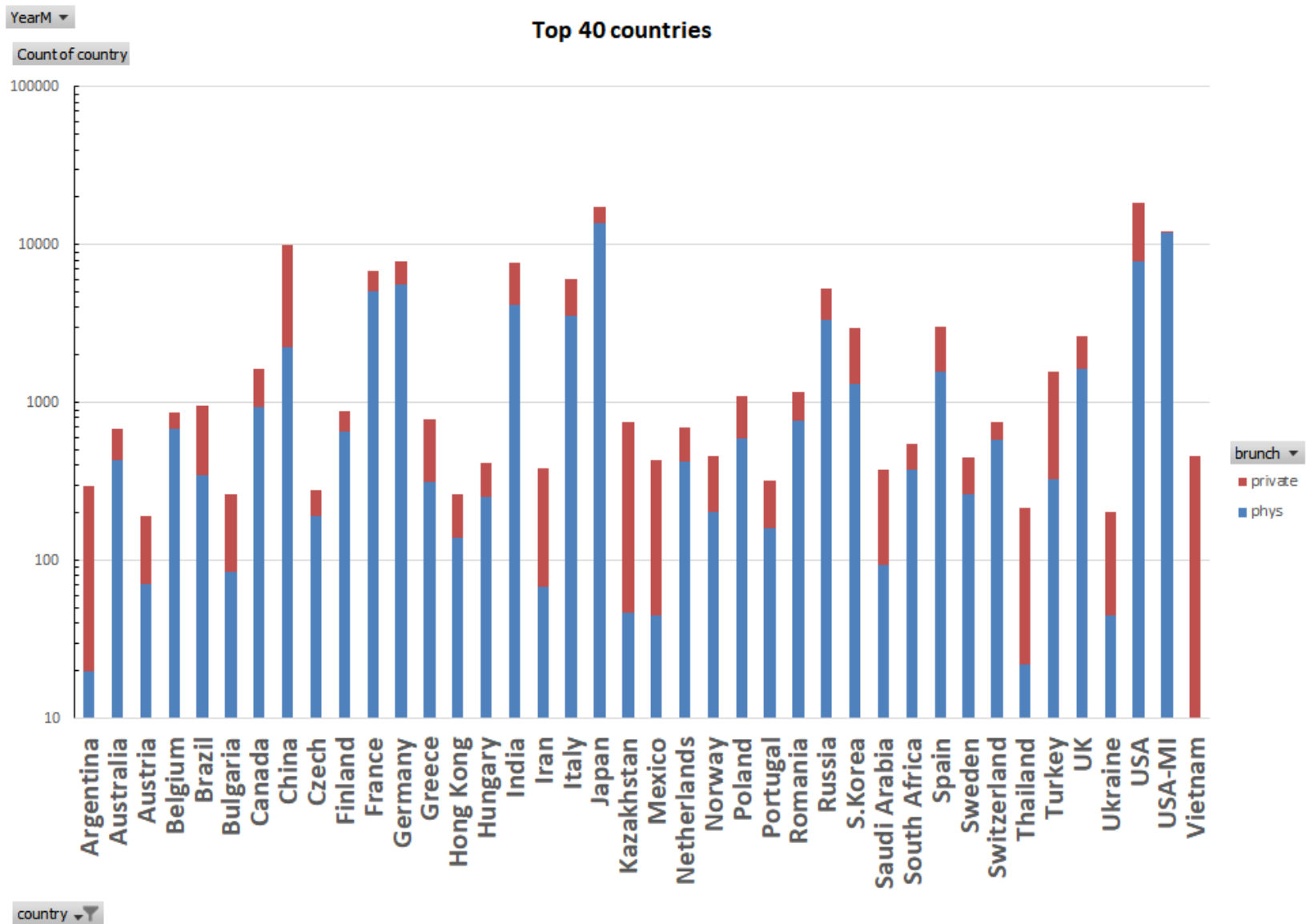
The LISE++ code geography



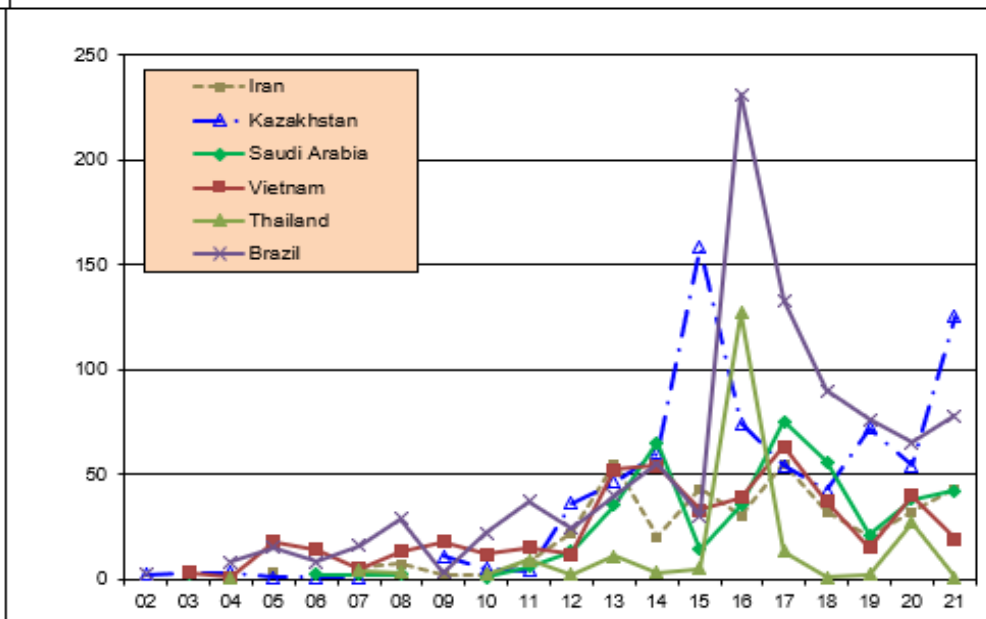
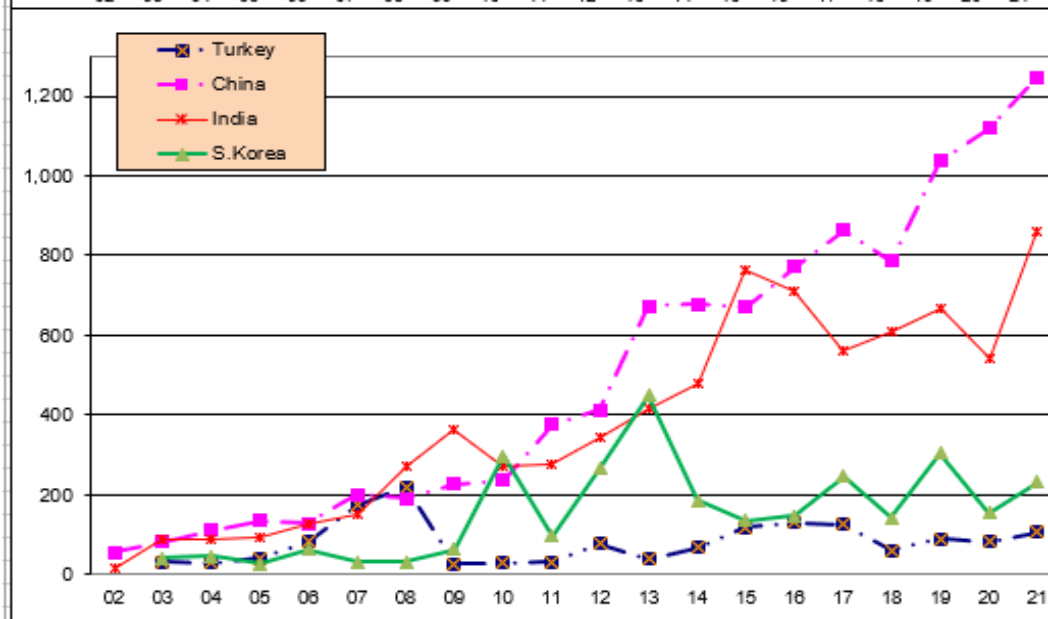
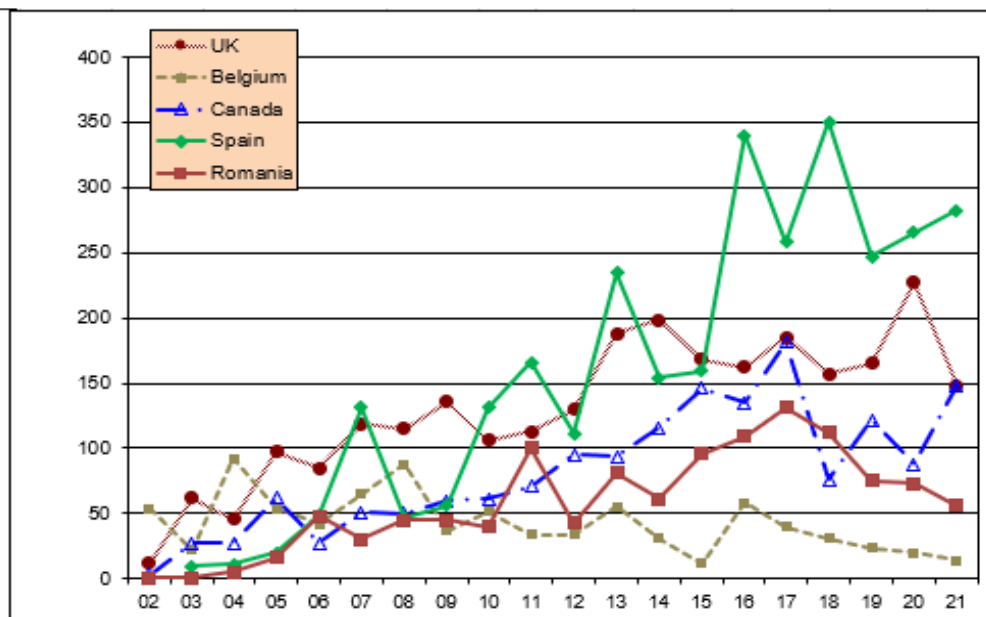
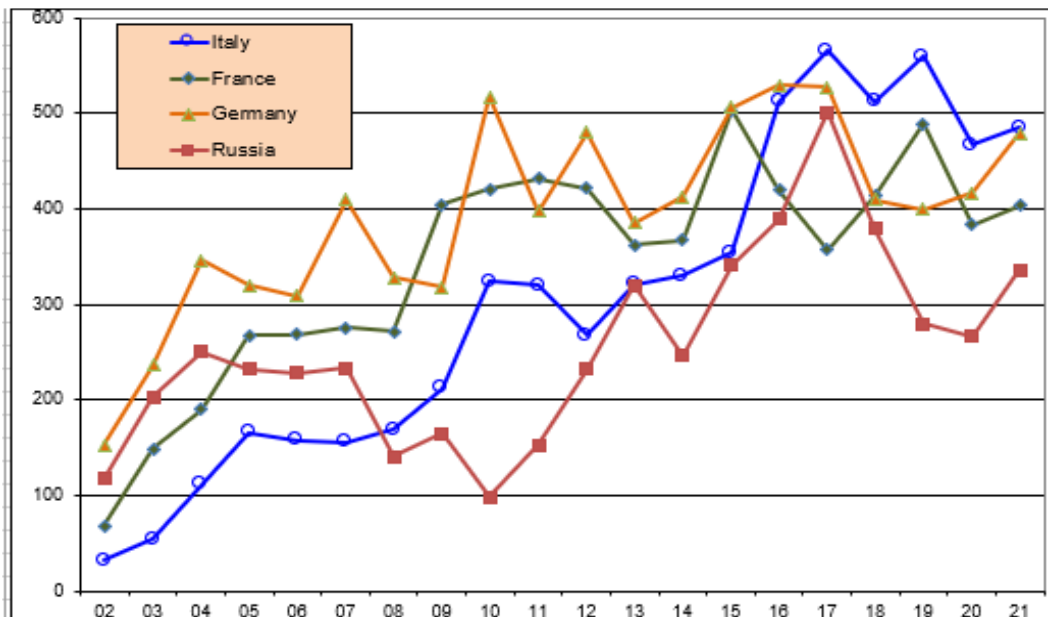
The LISE++ code geography (last 2021 year)

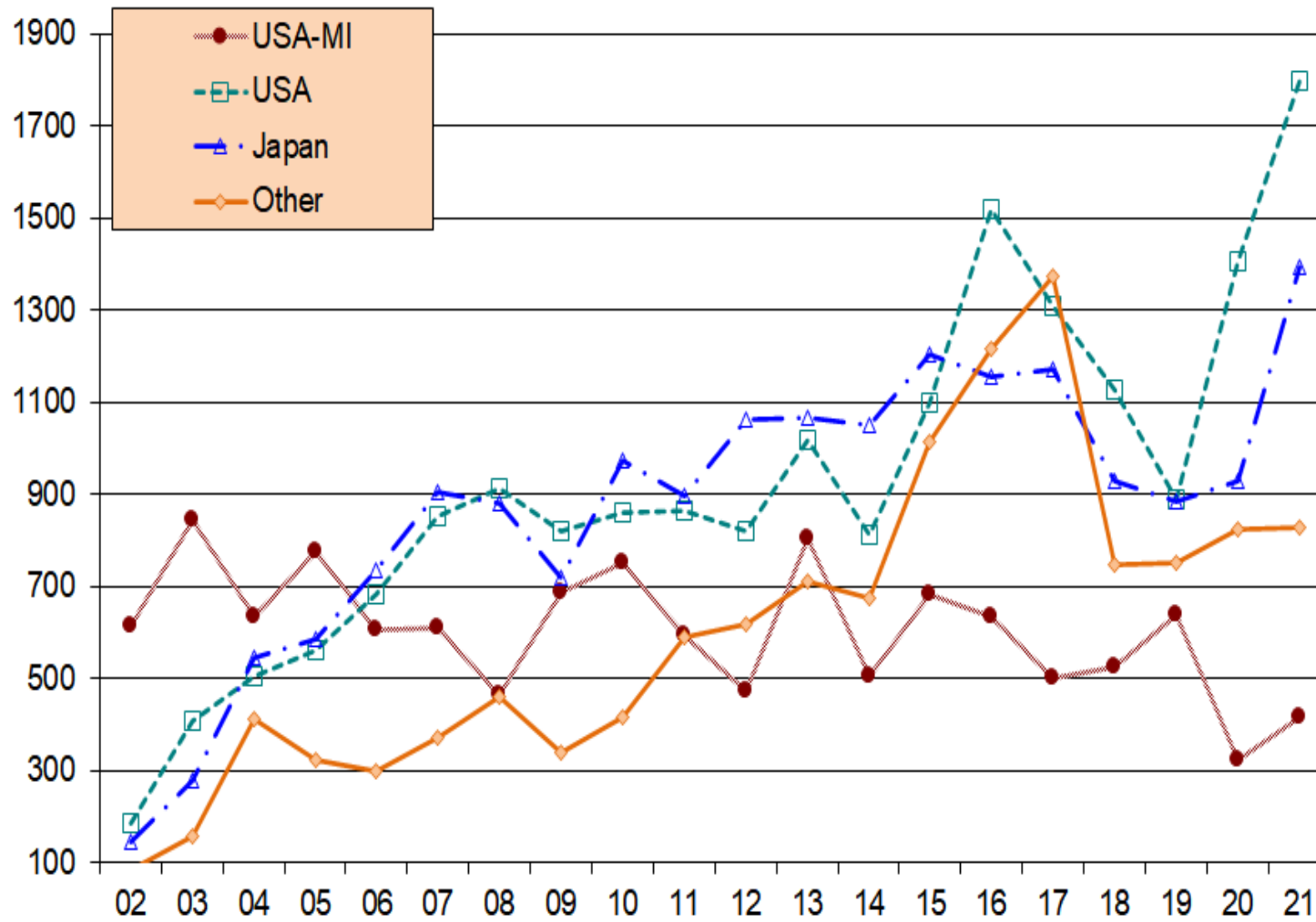


Top 40 countries



By countries per year (1)

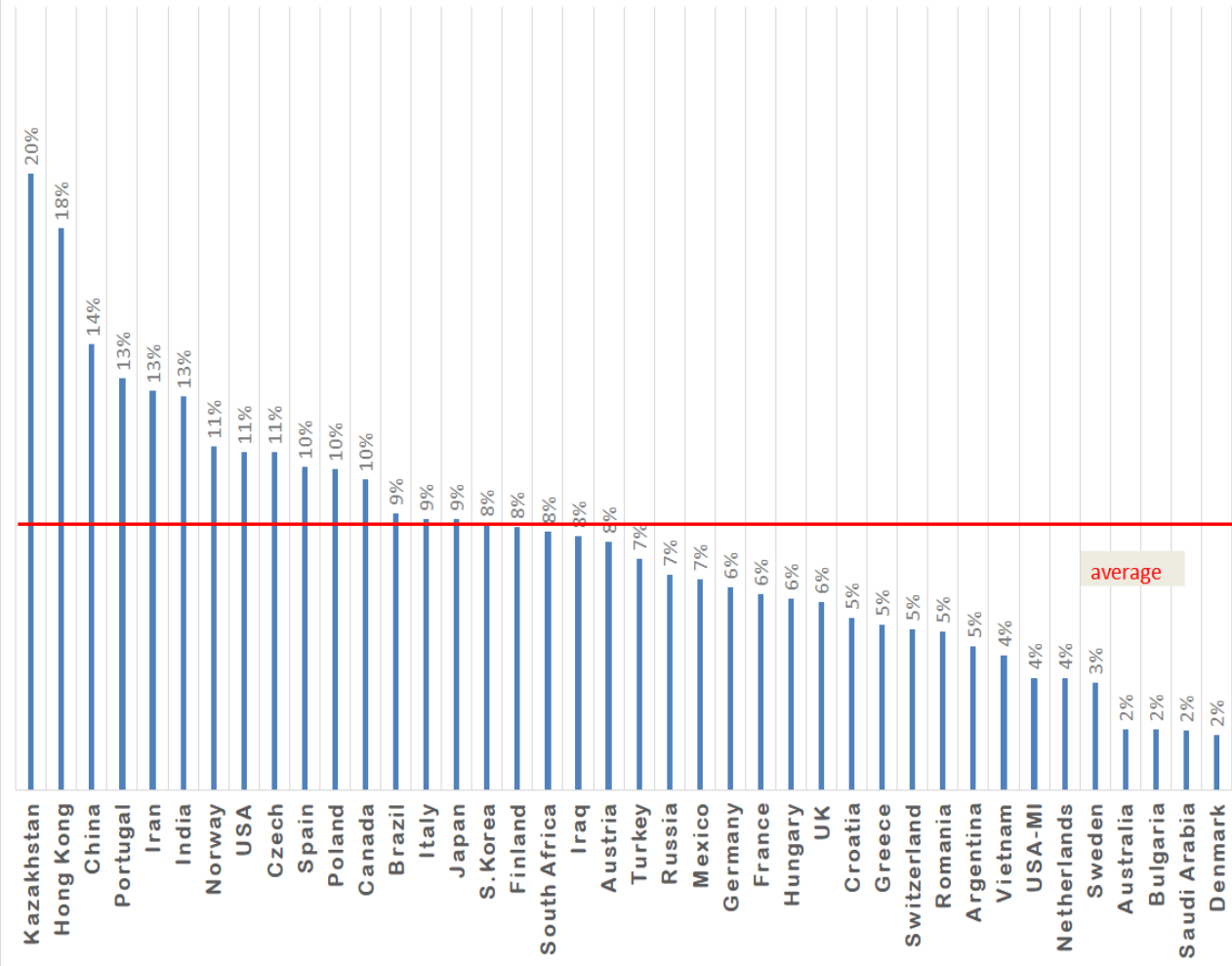




difference		difference		difference	
country	19-18	country	20-19	country	21-20
China	252	USA	518	Japan	466
S.Korea	163	China	81	USA	392
USA-MI	114	Other	70	India	320
Other	89	UK	62	China	128
France	75	Japan	46	USA-MI	94
India	60	Vietnam	25	S.Korea	78
Italy	48	Thailand	25	Kazakhstan	71
Canada	46	Spain	18	Russia	69
Kazakhstan	30	Germany	17	Germany	62
Turkey	29	Saudi Arabia	17	Canada	60
UK	8	Iran	12	Turkey	25
Thailand	1	Romania	-2	France	21
Belgium	-7	Belgium	-4	Italy	18
Germany	-10	Turkey	-8	Spain	17
Iran	-12	Brazil	-11	Brazil	13
Brazil	-14	Russia	-13	Iran	11
Vietnam	-22	Kazakhstan	-18	Saudi Arabia	4
Saudi Arabia	-35	Canada	-34	Other	4
Romania	-37	Italy	-93	Belgium	-6
Japan	-44	France	-106	Romania	-17
Russia	-99	India	-126	Vietnam	-21
Spain	-103	S.Korea	-151	Thailand	-26
USA	-239	USA-MI	-316	UK	-79
bot	507	bot	-586	bot	-87
Total no bots	209	Total no bots	9	Total no bots	1704
Total with bot	716	Total with bot	-577	Total with bot	1617

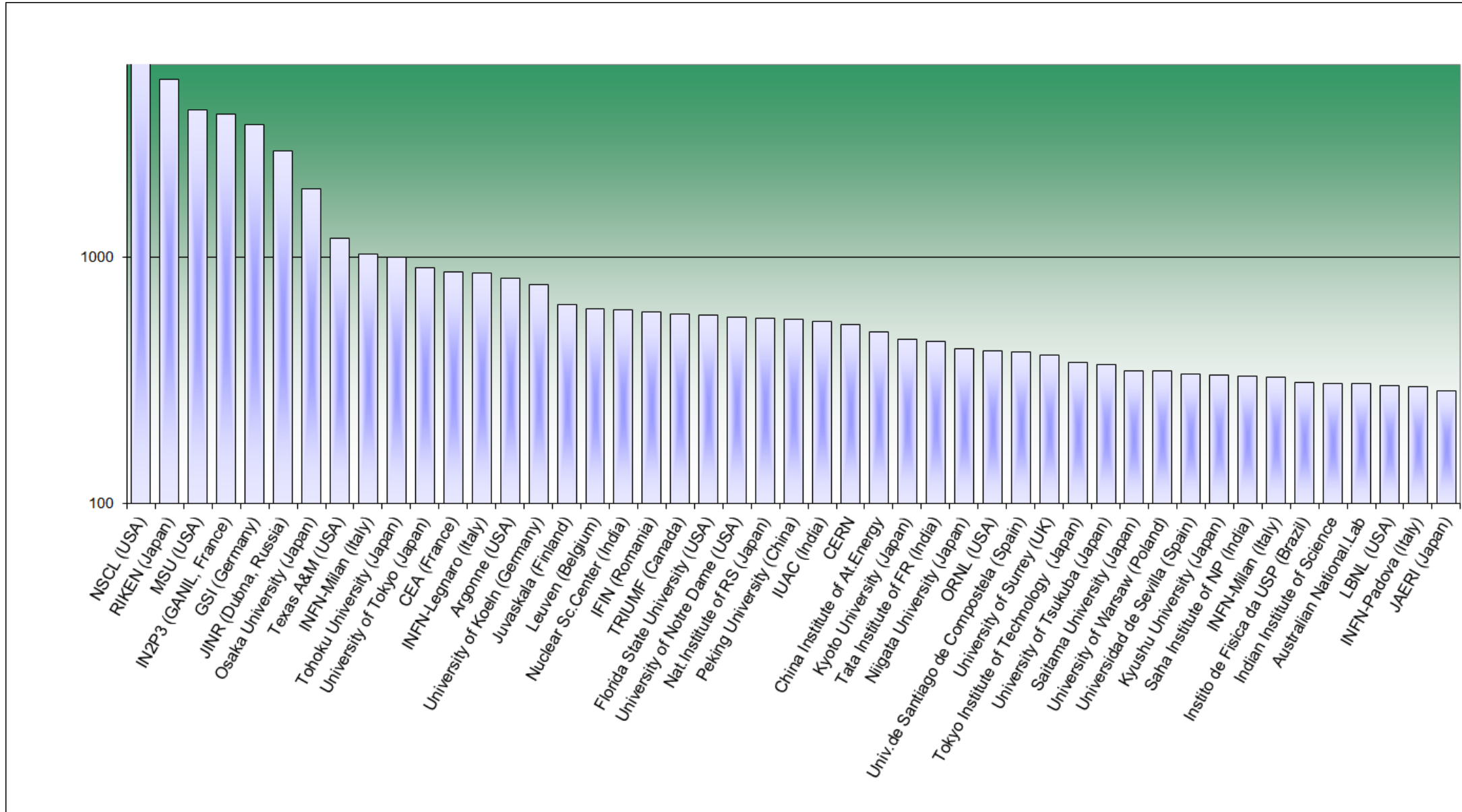
2021

TOP 40 COUNTRIES : RATIO OF 2021 / SUM(2002:2020)

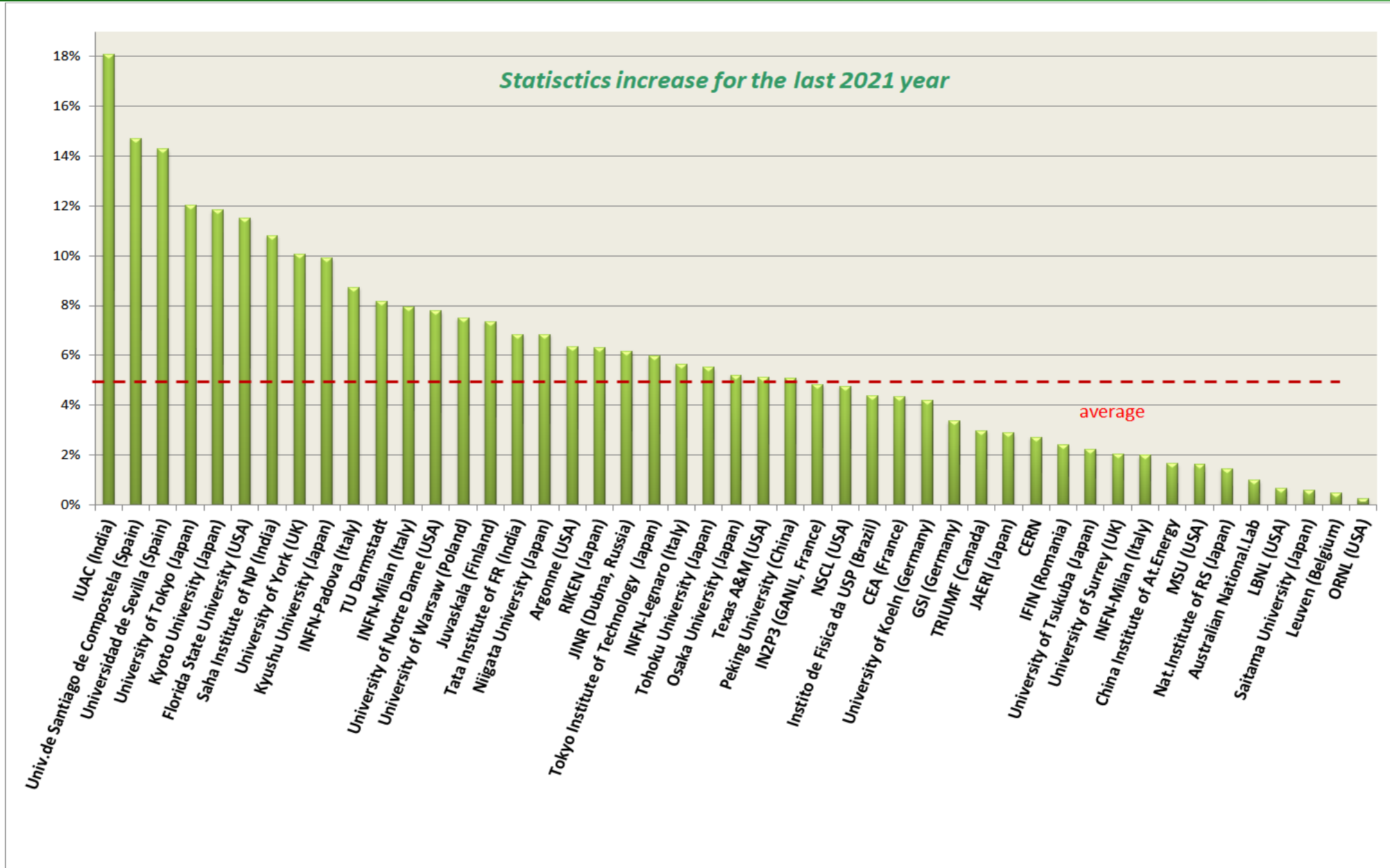


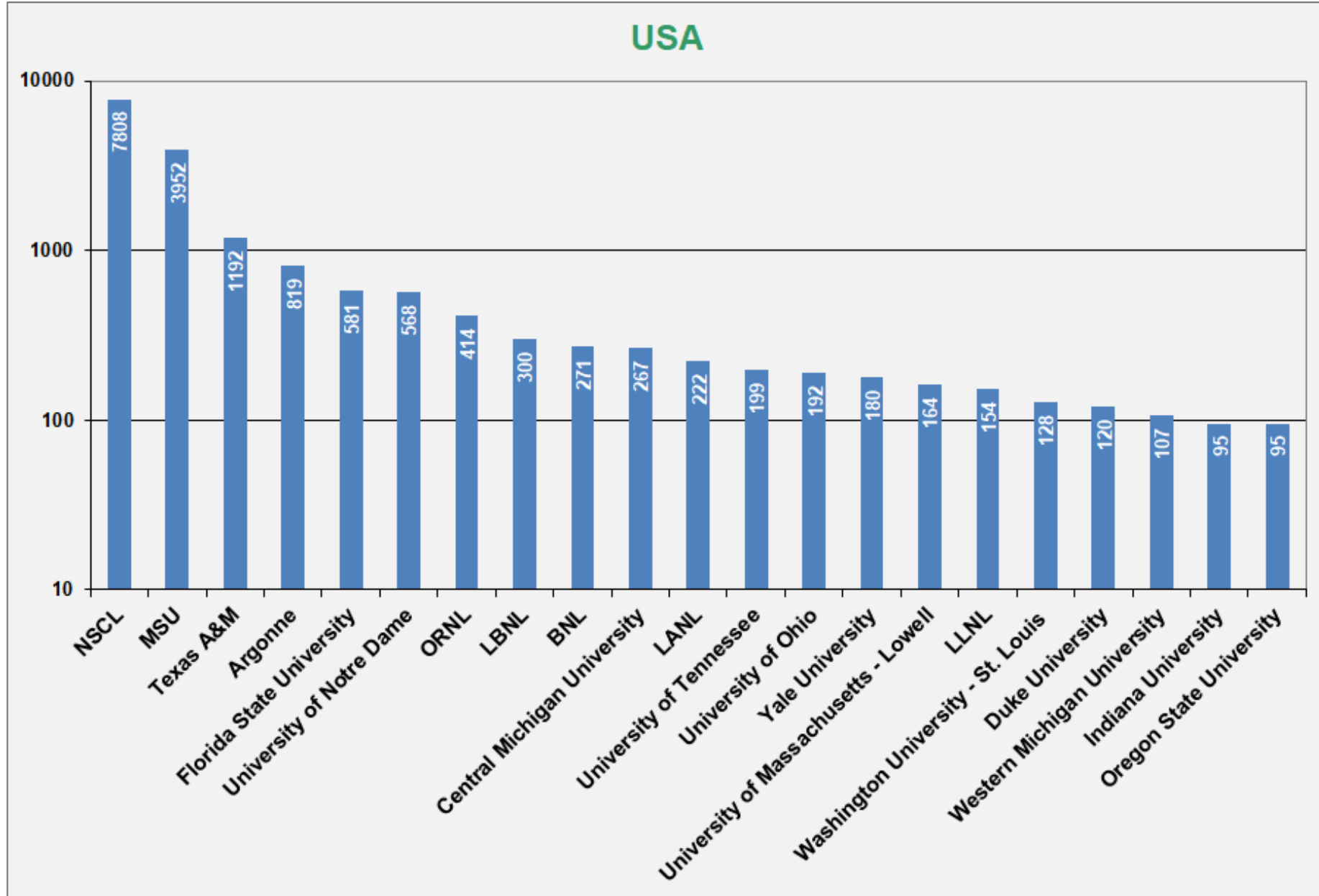
country	Total (...2020)	2021	2021 / Total	country	Total (...2020)	2021	2021 / Total		
1	Colombia	120	28	23%	26	Mexico	402	27	7%
2	Kazakhstan	635	125	20%	27	Germany	7407	479	6%
3	Hong Kong	223	40	18%	28	France	6470	404	6%
4	Slovakia	111	19	17%	29	Hungary	392	24	6%
5	China	8762	1247	14%	30	UK	2471	148	6%
6	Portugal	281	37	13%	31	Ethiopia	134	8	6%
7	Iran	337	43	13%	32	Croatia	164	9	5%
8	India	6856	862	13%	33	Greece	738	39	5%
9	Israel	121	15	12%	34	Switzerland	721	37	5%
10	Norway	410	45	11%	35	Romania	1110	56	5%
11	USA	16632	1797	11%	36	Morocco	106	5	5%
12	Czech	250	27	11%	37	Argentina	284	13	5%
13	Spain	2734	282	10%	38	Vietnam	443	19	4%
14	Poland	1005	103	10%	39	USA-MI	11658	417	4%
15	Canada	1492	148	10%	40	Netherlands	673	24	4%
16	Brazil	882	78	8.8%	41	Sweden	437	15	3%
17	Italy	5599	485	8.7%	42	Egypt	147	3	2%
18	Japan	16112	1395	8.7%	43	Australia	667	13	2%
19	S. Korea	2735	232	8.5%	44	Bulgaria	260	5	2%
20	Finland	809	68	8.4%	45	Saudi Arabia	367	7	2%
21	South Africa	509	42	8.3%	46	Denmark	170	3	2%
22	Iraq	173	14	8.1%	47	Belgium	845	14	2%
23	Austria	177	14	7.9%	48	Ukraine	200	2	1%
24	Turkey	1460	108	7.4%	49	Thailand	214	1	0%
25	Russia	4894	336	6.9%	50	Serbia	152	0	0%

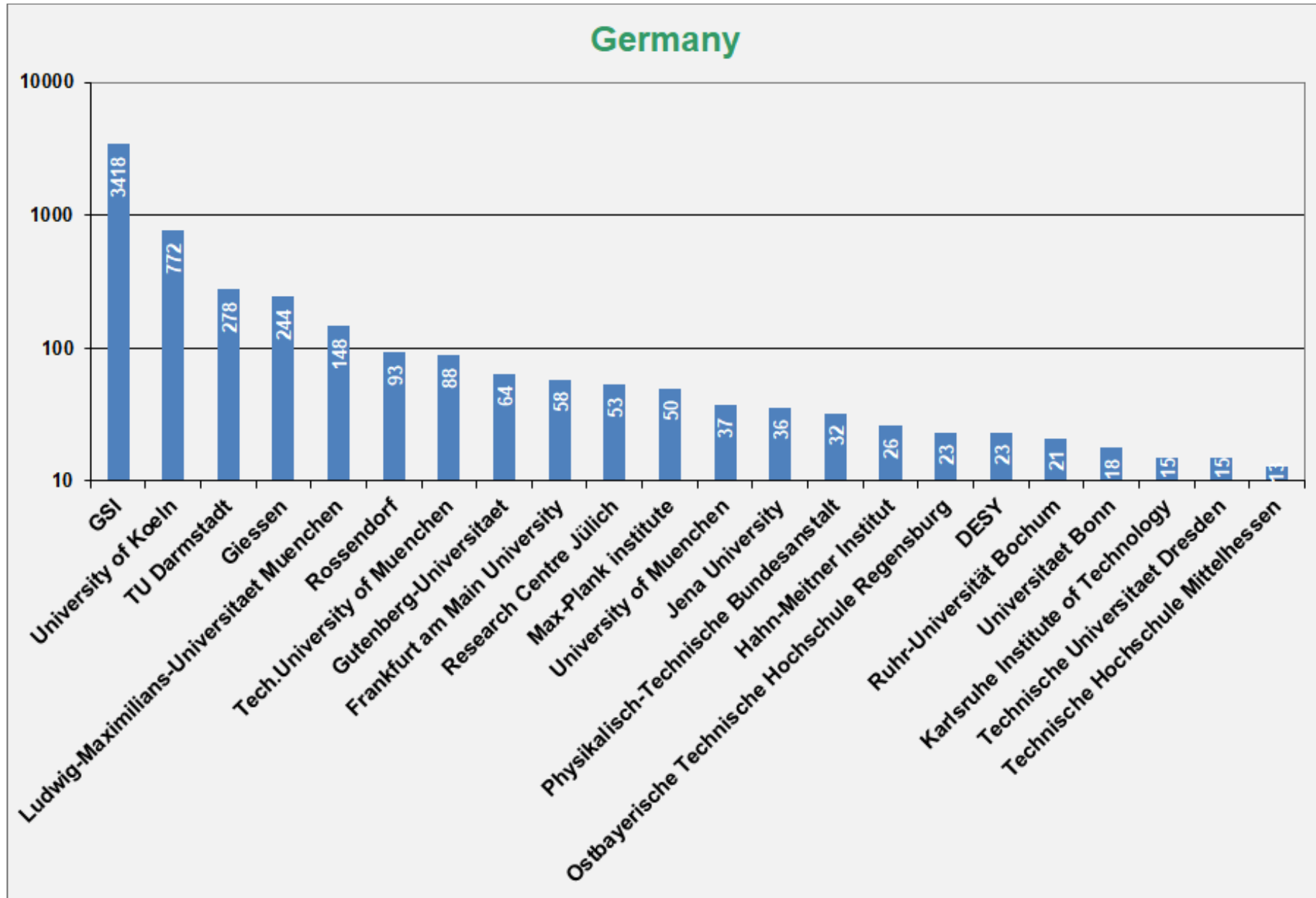
Laboratories (absolute values) : 2021

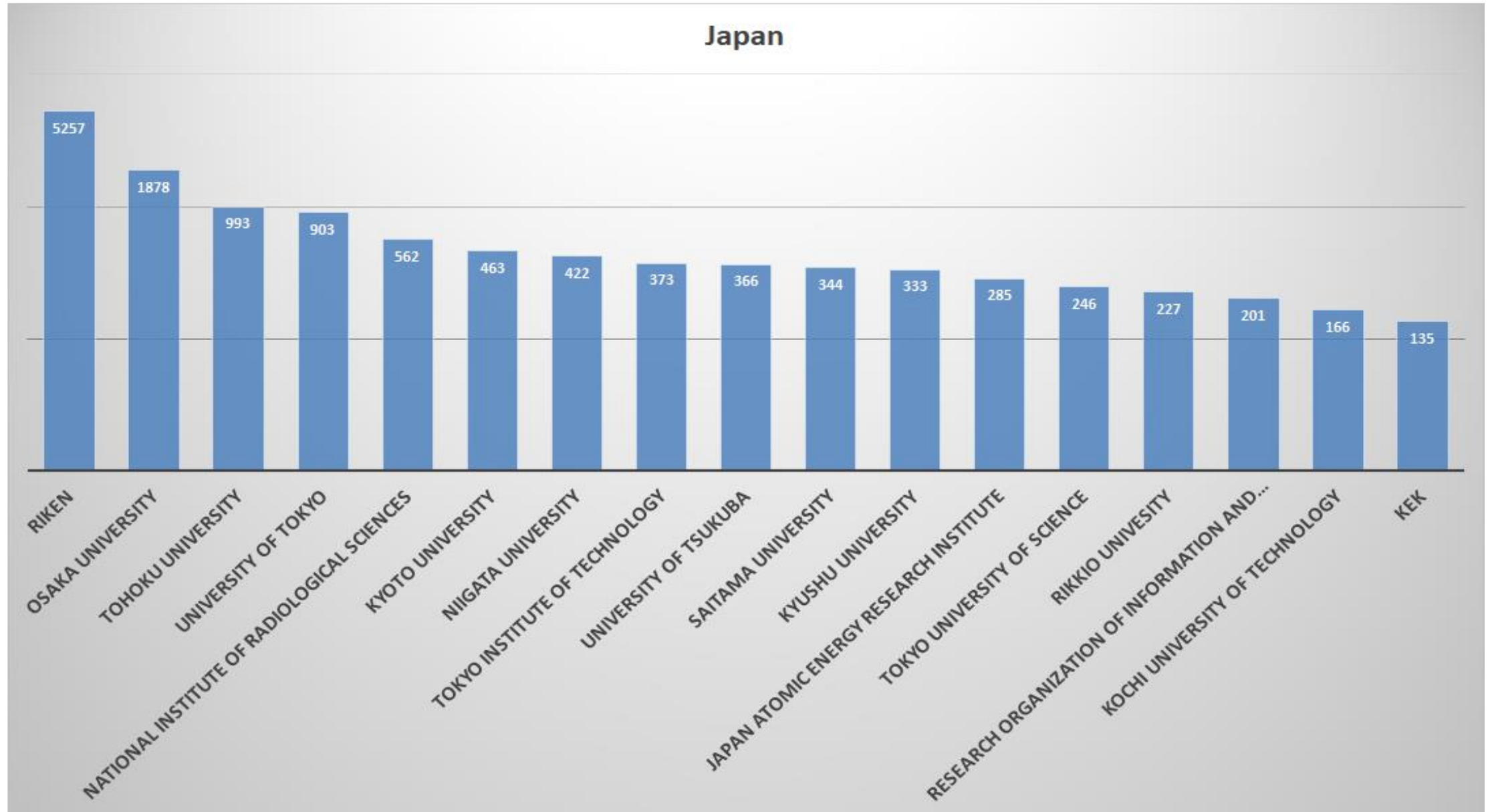


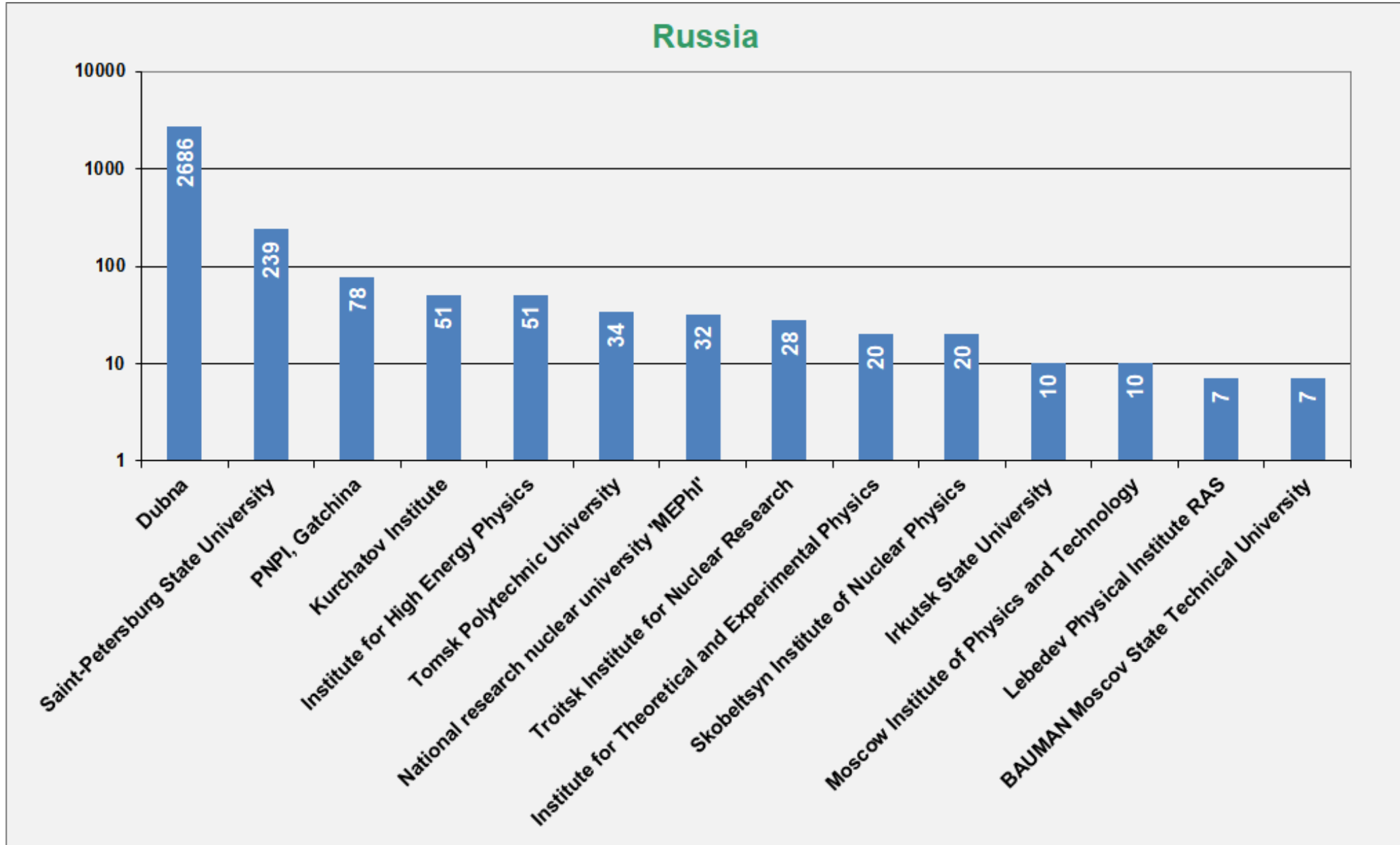
Laboratories (progress-regress) : 2021

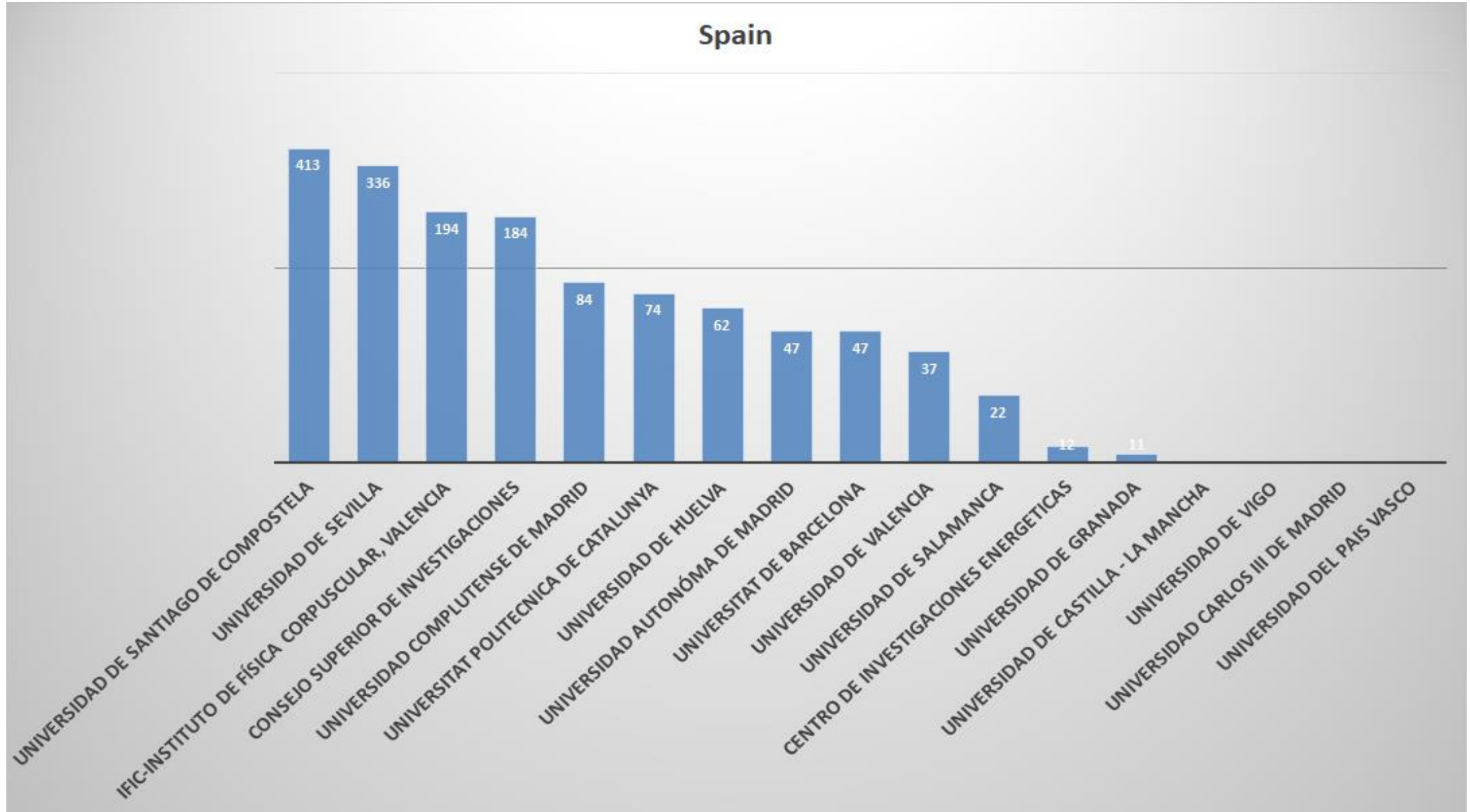


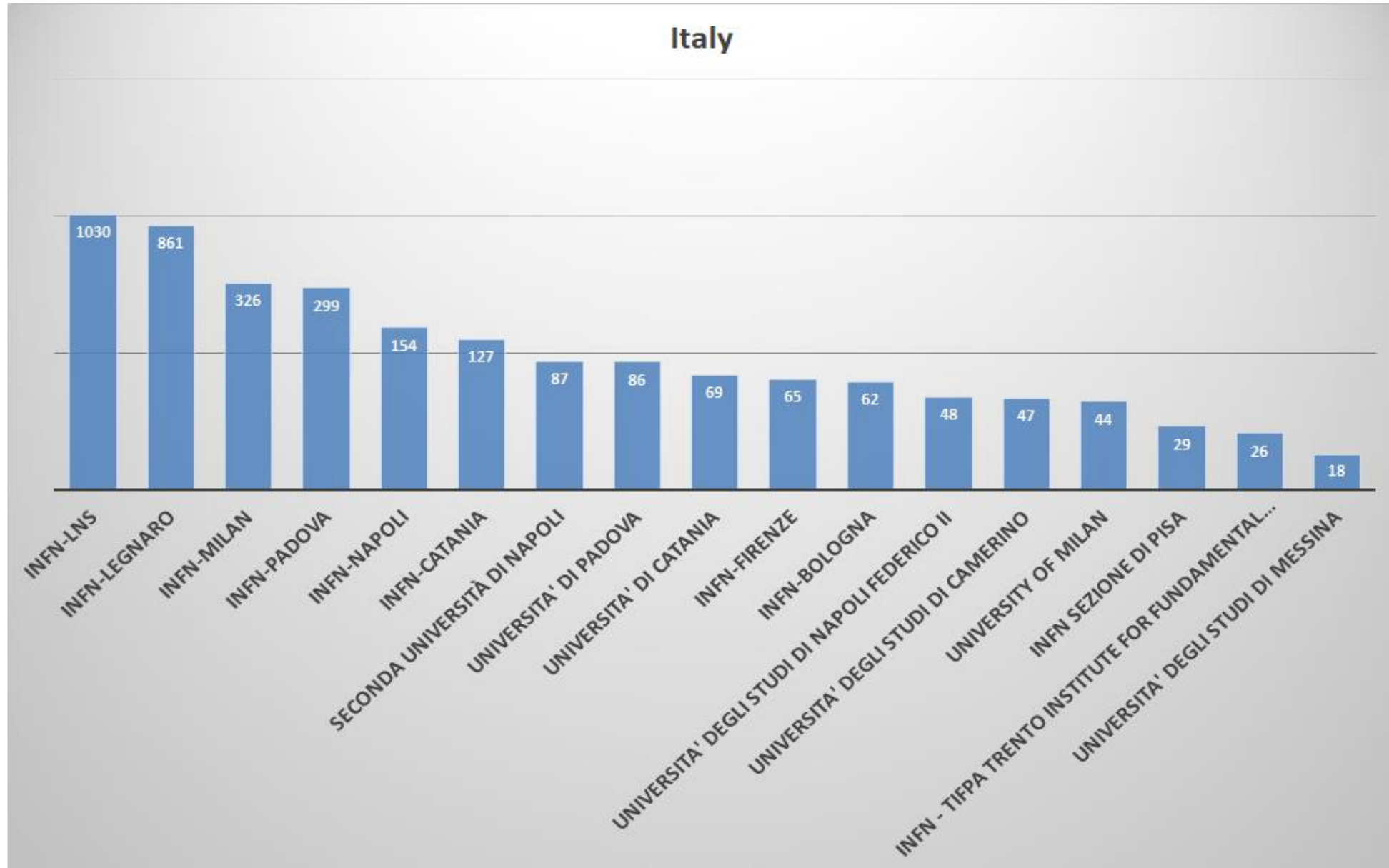


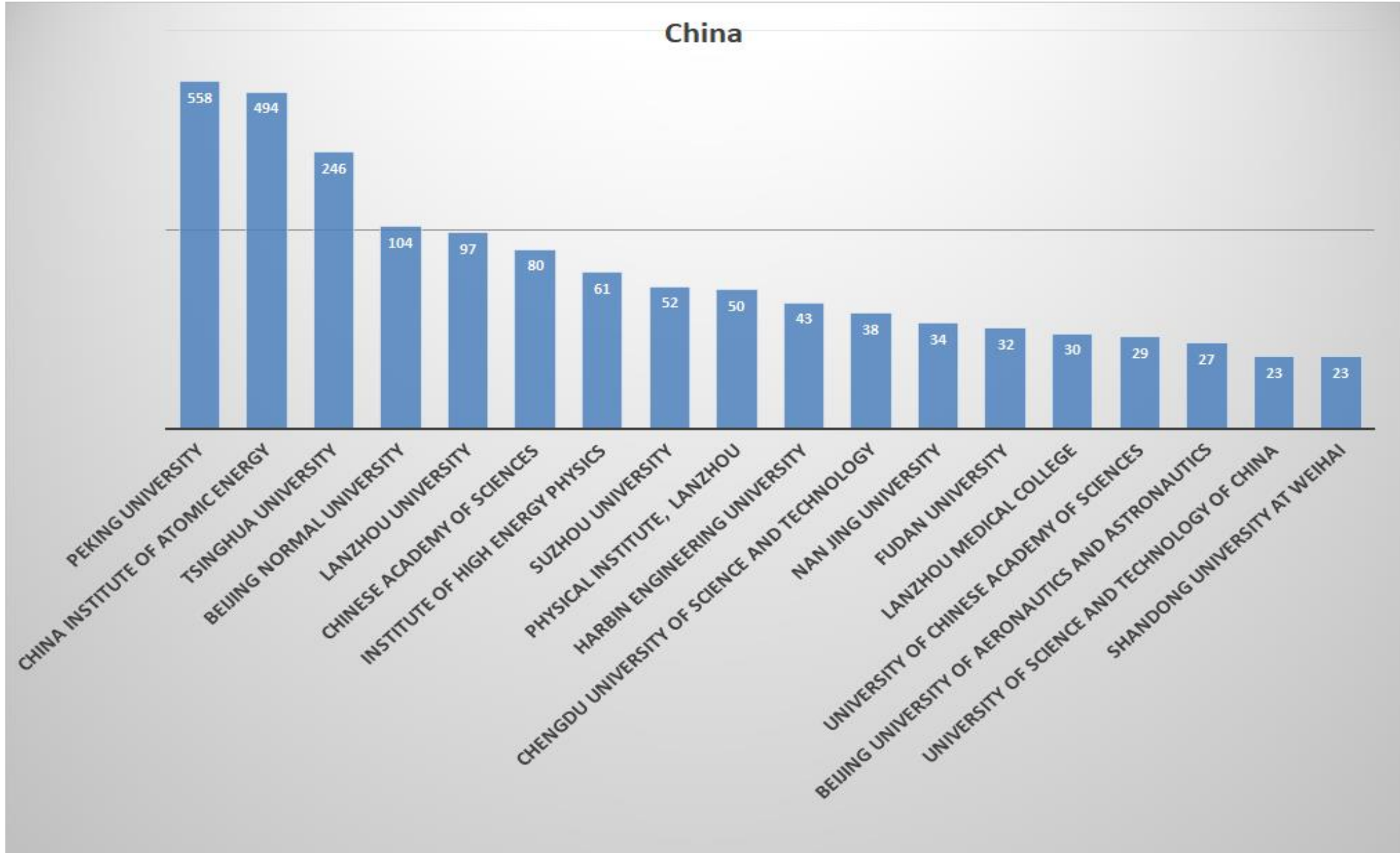


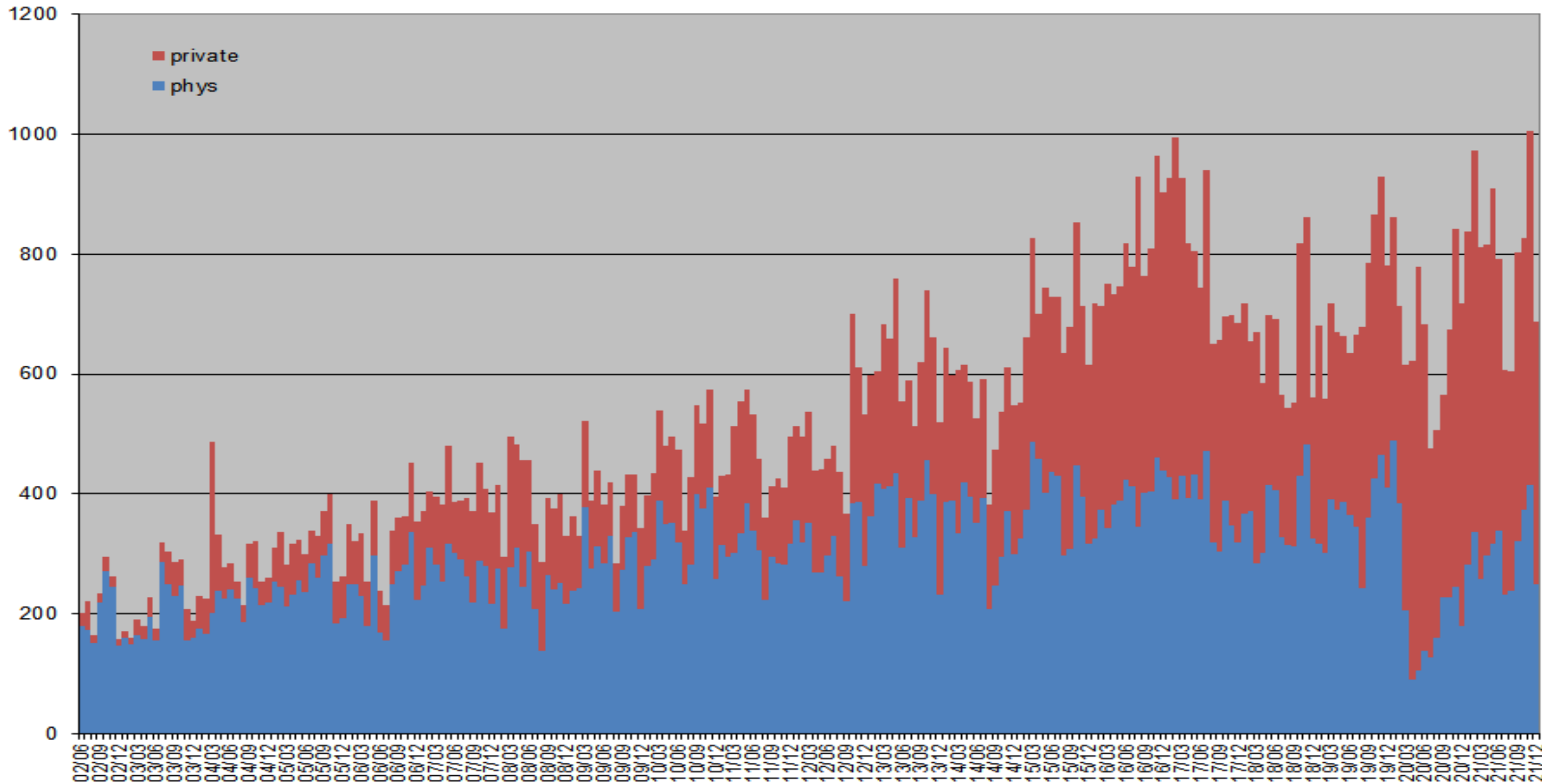


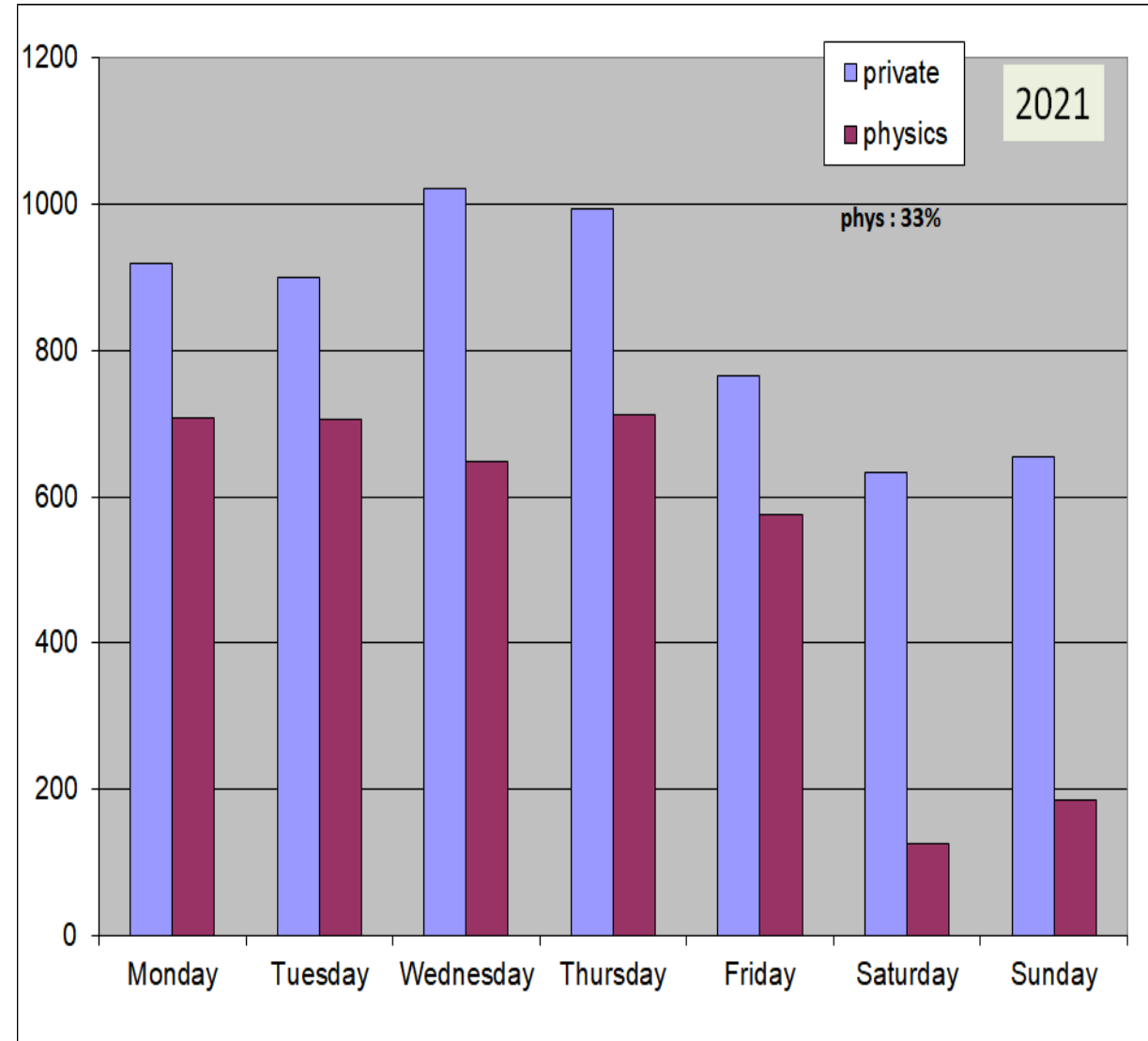
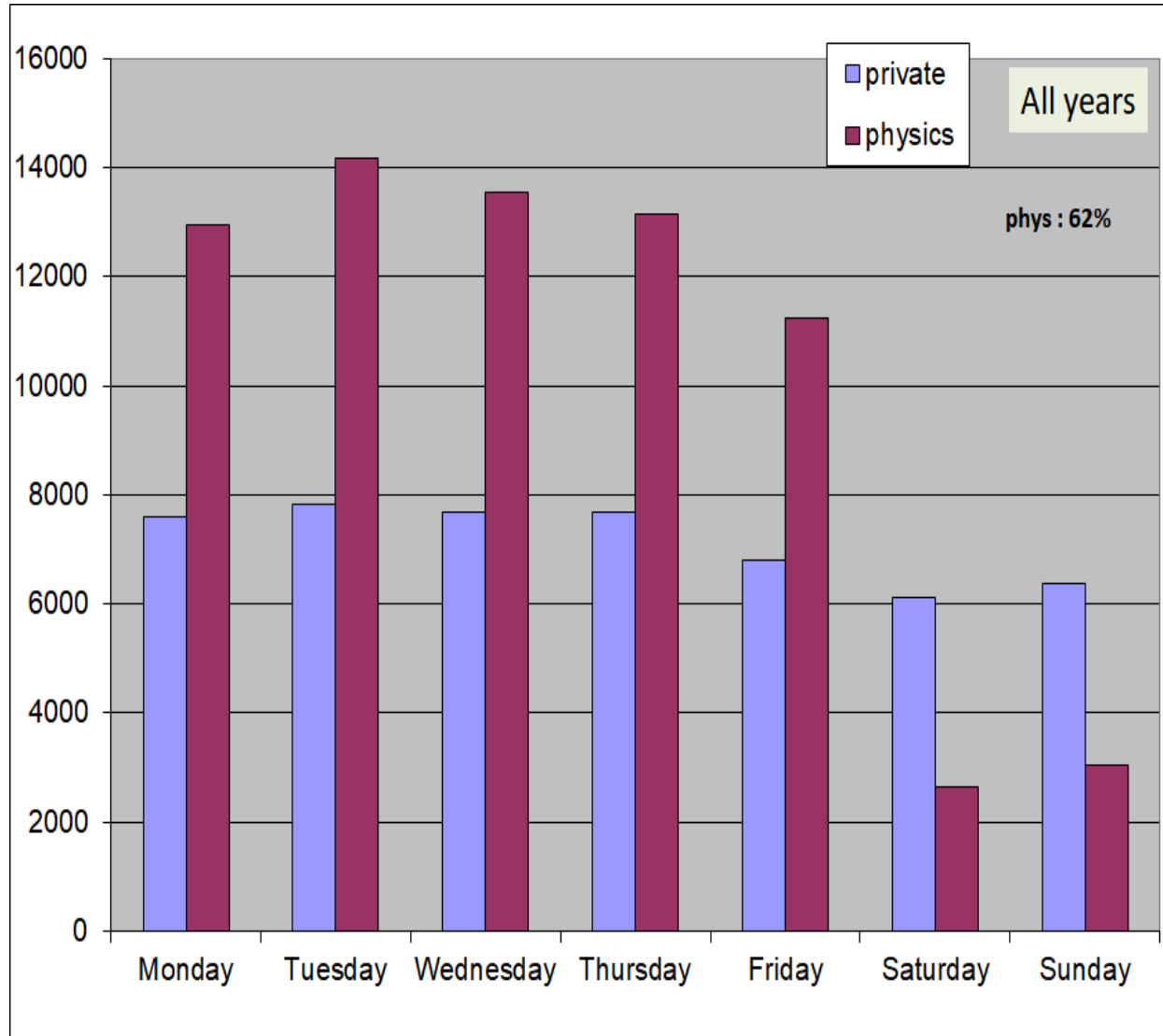


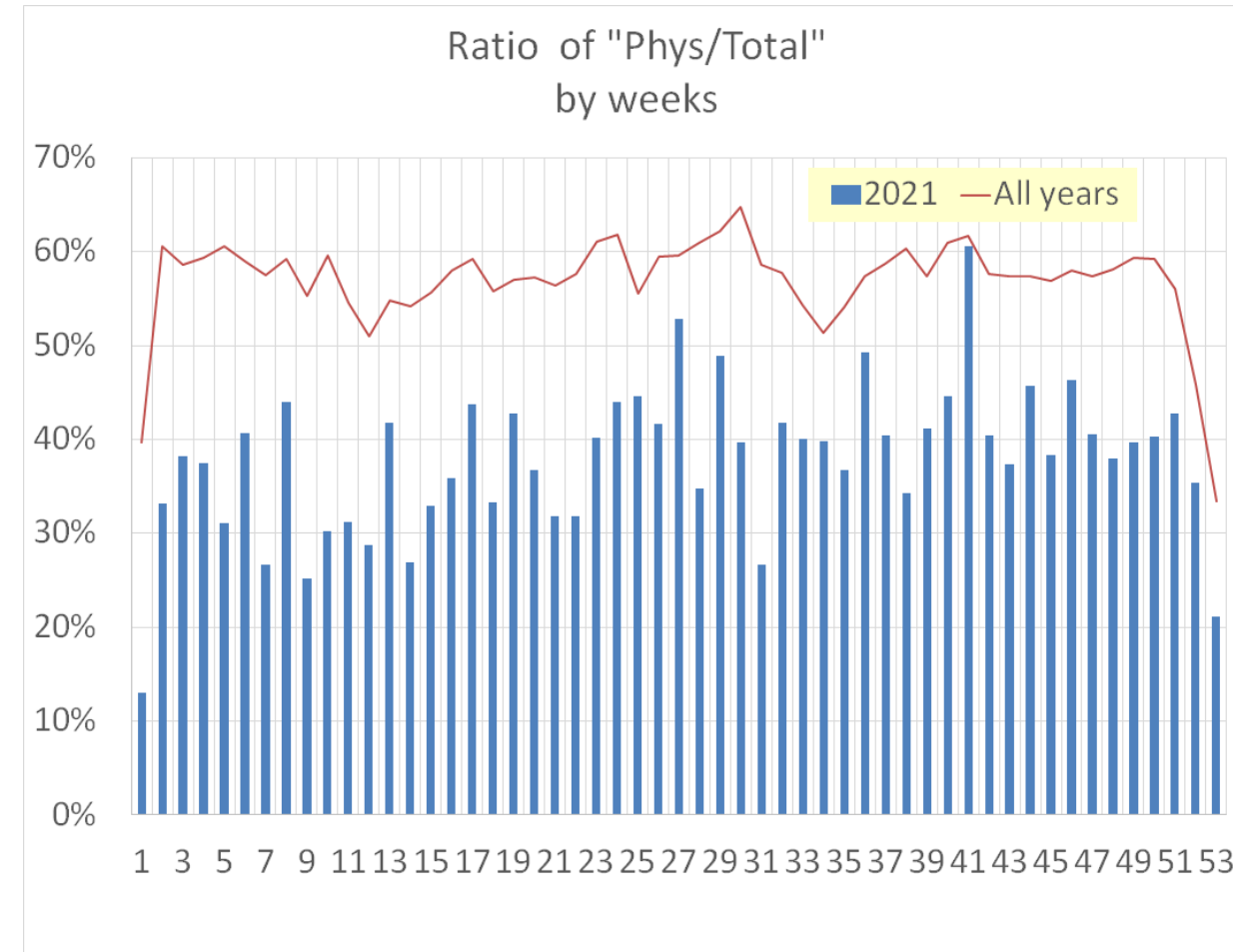
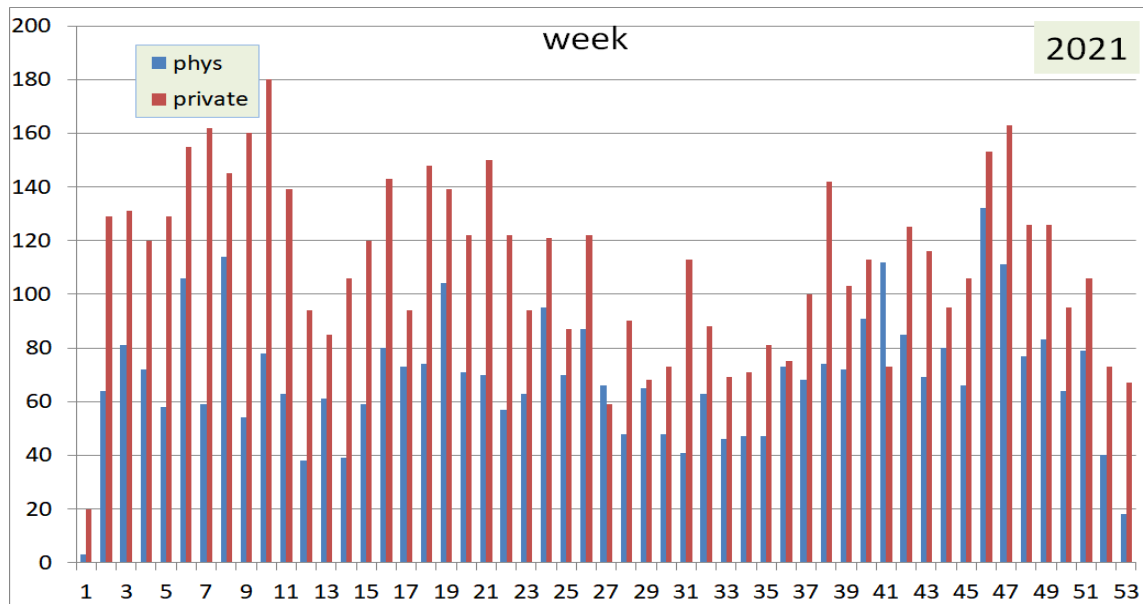
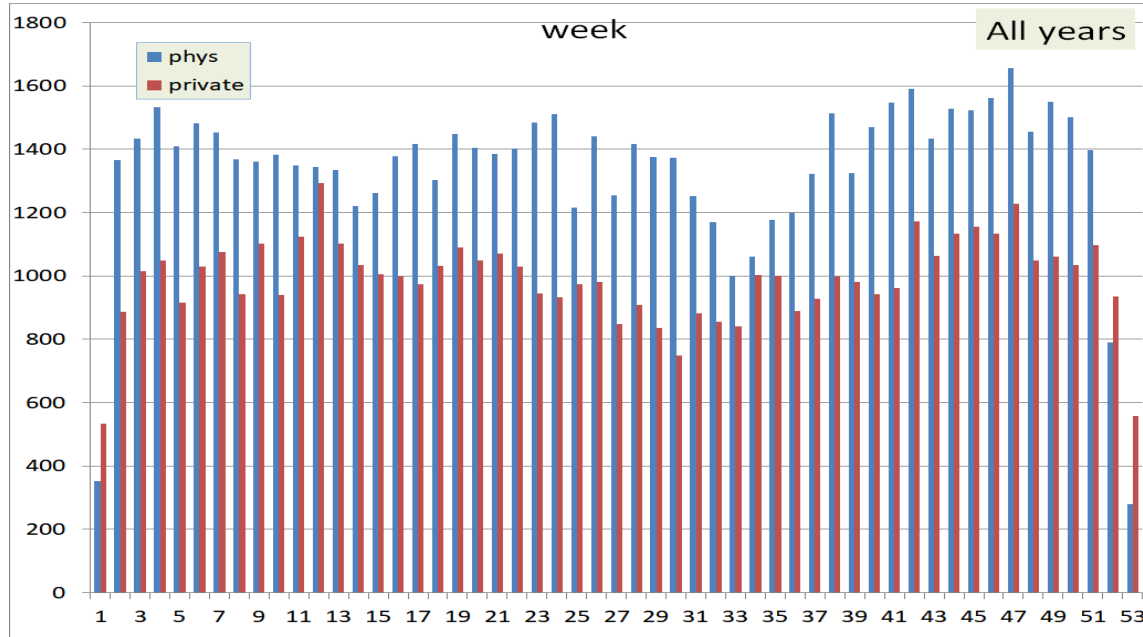


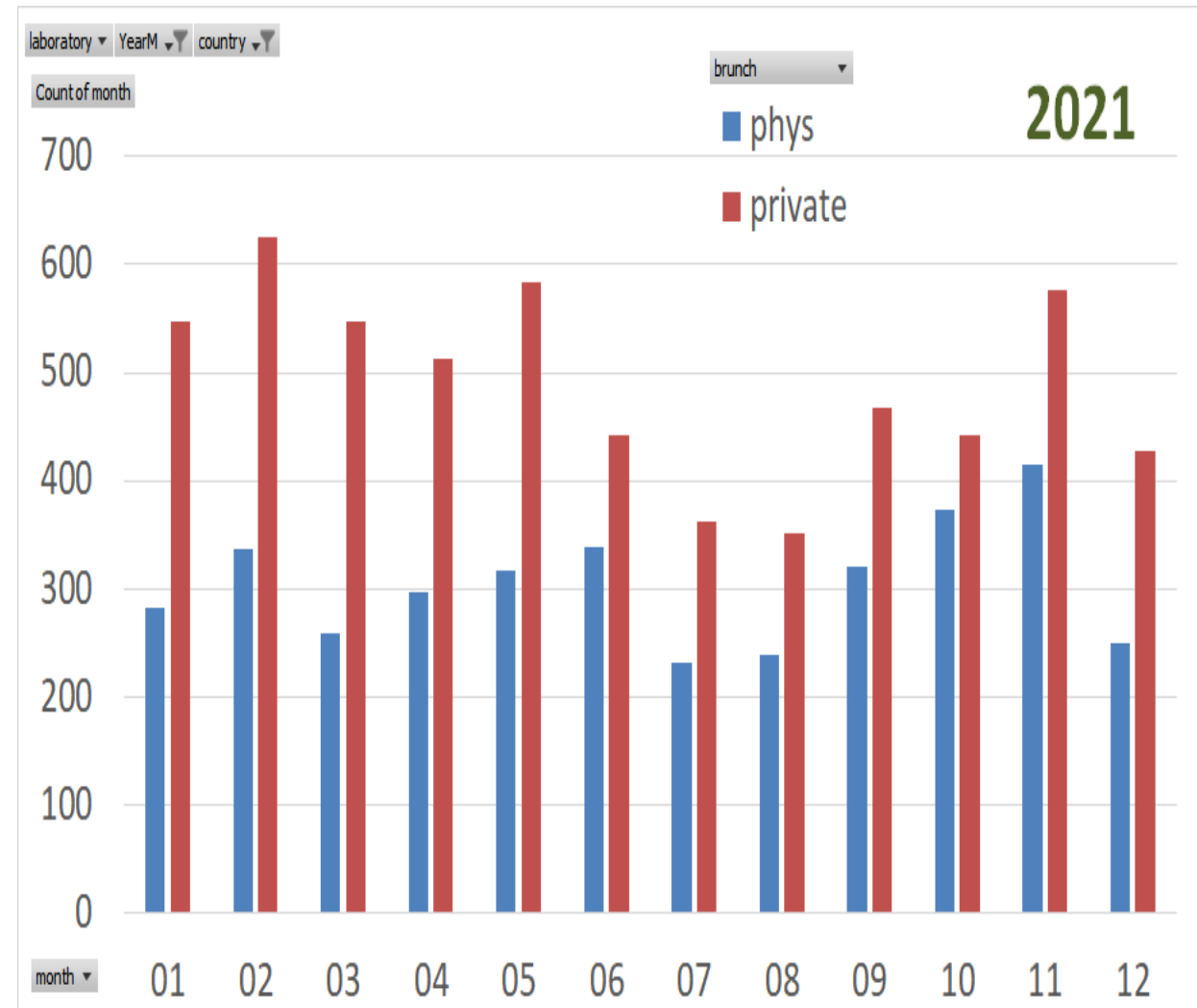
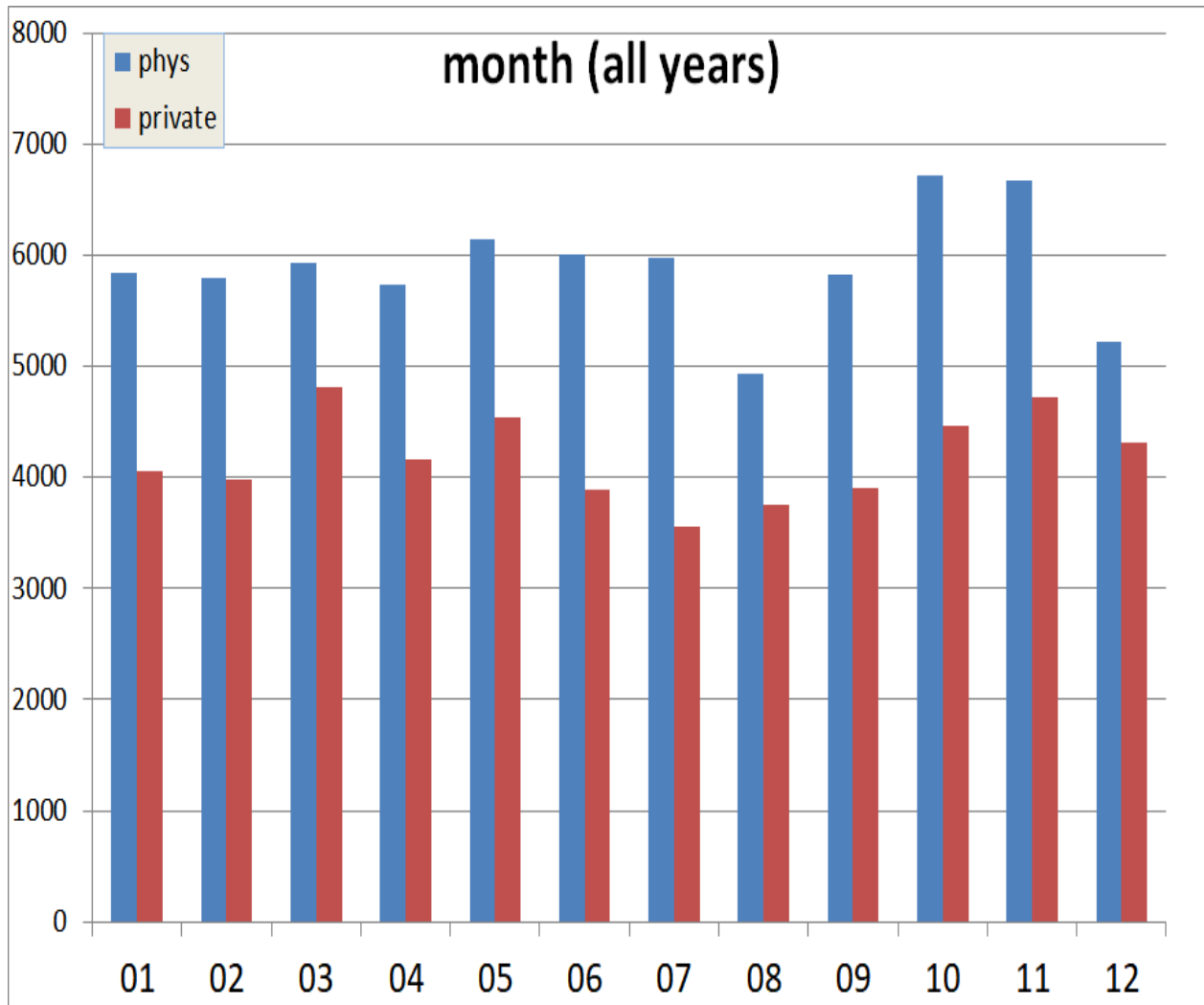












Top 40 countries: Physics / Total

