

Appendix tables

Appendix tables to NIFU Insight 2021-4 *An initial bibliometric mapping of six higher education institutions undergoing structural changes*. Authors: Dag W. Aksnes, Lone Wanderås Fossum and Nicoline Frølich.

Table A1. Number of publications by institution 2011-2019

Case	Institution	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
	Buskerud Univ Coll	126	152	149							427
	Vestfold Univ Coll	170	165	234							569
	Buskerud and Vestfold Univ Coll				411	380					791
	Telemark Univ Coll	113	155	178	247	180					873
	Univ Coll Southeast Norway						658	791			1449
	Univ South-Eastern Norway								744	921	1665
	Total (unique)	407	470	558	657	555	658	791	744	921	5761
	Total - annual change		15%	19%	18%	-16%	19%	20%	-6%	24%	126%
	Bergen Univ Coll	221	198	272	285	294	372				1642
	Sogn og Fjordane Univ Coll	60	73	79	99	119	137				567
	Stord/Haugesund Univ Coll	63	75	96	64	72	82				452
	Western Norway Univ of Applied Sci							665	704	848	2217
	Total (unique)	343	340	442	438	475	577	665	704	848	4832
	Total - annual change		-1%	30%	-1%	8%	21%	15%	6%	20%	147%
	Ålesund Univ Coll	31	39	56	68	100					294
	Gjøvik Univ Coll	130	142	158	177	242					849
	Sør-Trøndelag Univ Coll	176	185	210	187	180					938
	Norwegian Univ Science & Techn	3376	3828	3764	3748	3929	4600	4962	5130	5656	38993
	Total (unique)	3657	4121	4095	4111	4369	4600	4962	5130	5656	40701
	Total - annual change		13%	-1%	0%	6%	5%	8%	3%	10%	55%
	Finnmark Univ Coll	39	60	52							151
	Harstad Univ Coll	32	44	31	36	30					173
	Narvik Univ Coll	53	80	107	93	67					400
	Univ Tromsø	1433	1475								2908
	Univ Tromsø - Arctic Univ of Norway			1473	1720						3193
	UiT - The Arctic Univ of Norway					1843	1929	2002	2106	2152	10032
	Total (unique)	1550	1646	1656	1835	1934	1929	2002	2106	2152	16810
	Total - annual change		6%	1%	11%	5%	0%	4%	5%	2%	39%
	Nesna Univ Coll	12	22	21	28	56					139
	Nord-Trøndelag Univ Coll	83	79	94	116	81					453
	Univ of Nordland	209	204	169	236	272					1090
	Nord Univ						358	393	543	633	1927
	Total (unique)	303	305	282	378	406	358	393	543	633	3601
	Total - annual change		1%	-8%	34%	7%	-12%	10%	38%	17%	109%
	Hedmark Univ Coll	154	177	147	239	216	228				1161
	Lillehammer Univ Coll	149	131	102	97	111	135				725
	Inland Norway Univ of Applied Sci							416	421	462	1299
	Total (unique)	300	306	248	335	327	362	416	421	462	3177
	Total - annual change		2%	-19%	35%	-2%	11%	15%	1%	10%	54%

Table A2. Number of publication points* by institution 2011-2019

Case	Institution	2011	2012	2013	2014	2015*	2016*	2017*	2018*	2019*
	Buskerud Univ Coll	74	91	87						
	Vestfold Univ Coll	143	128	173						
	Buskerud and Vestfold Univ Coll				259	354				
	Telemark Univ Coll	87	124	150	226	185				
	Univ Coll Southeast Norway						577	713		
	Univ South-Eastern Norway								701	829
	Total	303	344	410	486	539	577	713	701	829
	Total - annual change		13%	19%	18%	*	7%	24%	-2%	18%
	Total – prop of Norw HE	2.1%	2.3%	2.7%	3.2%	2.5%	2.4%	2.9%	2.7%	3.0%
	Bergen Univ Coll	114	142	132	155	247	288			
	Sogn og Fjordane Univ Coll	38	50	40	71	108	136			
	Stord/Haugesund Univ Coll	51	50	65	45	68	66			
	Western Norway Univ of Applied Sci							572	602	725
	Total	204	242	237	271	422	490	572	602	725
	Total - annual change		19%	-2%	14%	*	16%	17%	5%	20%
	Total – prop of Norw HE	1.4%	1.6%	1.6%	1.8%	1.9%	2.1%	2.3%	2.3%	2.6%
	Ålesund Univ Coll	23	31	33	46	80				
	Gjøvik Univ Coll	72	89	89	116	217				
	Sør-Trøndelag Univ Coll	142	126	151	137	171				
	Norwegian Univ of Science and Techn	2795	3179	3119	3027	4381	5047	5185	5647	6084
	Total	3033	3425	3393	3325	4849	5047	5185	5647	6084
	Total - annual change		13%	-1%	-2%	*	4%	3%	9%	8%
	Total – prop of Norw HE	21.1%	22.5%	22.7%	21.8%	22.1%	21.2%	21.0%	21.5%	22.1%
	Finnmark Univ Coll	42	48	48						
	Harstad Univ Coll	29	31	18	21	22				
	Narvik Univ Coll	40	48	68	63	60				
	Univ Tromsø	1121	1088							
	Univ Tromsø - Arctic Univ of Norway			1081	1249					
	UiT - The Arctic Univ of Norway					1784	2012	2011	2049	2113
	Total	1232	1214	1215	1332	1866	2012	2011	2049	2113
	Total - annual change		-1%	0%	10%	*	8%	0%	2%	3%
	Total – prop of Norw HE	8.6%	8.0%	8.1%	8.7%	8.5%	8.5%	8.2%	7.8%	7.7%
	Nesna Univ Coll	11	23	16	18	42				
	Nord-Trøndelag Univ Coll	55	59	90	70	77				
	Univ of Nordland	158	186	130	162	284				
	Nord Univ						316	383	529	576
	Total	224	268	236	250	403	316	383	529	576
	Total - annual change		20%	-12%	6%	*	-22%	21%	38%	9%
	Total – prop of Norw HE	1.6%	1.8%	1.6%	1.6%	1.8%	1.3%	1.6%	2.0%	2.1%
	Hedmark Univ Coll	90	124	97	145	180	208			
	Lillehammer Univ Coll	132	124	95	91	115	138			
	Inland Norway Univ of Applied Sci							389	384	459
	Total	222	248	193	236	295	346	389	384	459
	Total - annual change		12%	-22%	23%	*	17%	12%	-1%	20%
	Total – prop of Norw HE	1.5%	1.6%	1.3%	1.5%	1.3%	1.5%	1.6%	1.5%	1.7%

*) A new formula for calculation of publication points was introduced in 2015. Therefore, the figures from 2015 and onwards are not comparable with the figures for the period 2011-2014.

Table A3. Number of people affiliated with the institutions who have published at least one publication, 2011-2019

Case	Institution	2011	2012	2013	2014	2015	2016	2017	2018	2019	Increase
	Buskerud Univ Coll	72	90	83							
	Vestfold Univ Coll	114	105	126							
	Buskerud and Vestfold Univ Coll				267	248					
	Telemark Univ Coll	105	125	158	194	156					
	Univ Coll Southeast Norway						458	569			
	Univ South-Eastern Norway								566	616	
	Total	291	320	367	461	404	458	569	566	616	112%
	Bergen Univ Coll	118	137	142	178	201	210				
	Sogn og Fjordane Univ Coll	45	52	64	79	108	117				
	Stord/Haugesund Univ Coll	32	37	60	42	47	65				
	Western Norway Univ of Applied Sci							489	505	593	
	Total	195	226	266	299	356	392	489	505	593	204%
	Ålesund Univ Coll	36	32	50	56	69					
	Gjøvik Univ Coll	90	90	113	120	140					
	Sør-Trøndelag Univ Coll	135	149	165	160	160					
	Norwegian Univ of Science and Tech	2686	2996	2997	3160	3331	3865	4018	4286	4615	
Total	2947	3267	3325	3496	3700	3865	4018	4286	4615	57%	
	Finnmark Univ Coll	28	45	44							
	Harstad Univ Coll	22	31	20	24	28					
	Narvik Univ Coll	44	50	64	67	47					
	Univ Tromsø	1171	1166								
	Univ Tromsø - Arctic Univ of Norway			1199	1347						
	UiT - The Arctic Univ of Norway					1447	1522	1542	1685	1735	
	Total	1265	1292	1327	1438	1522	1522	1542	1685	1735	37%
	Nesna Univ Coll	12	14	20	22	41					
	Nord-Trøndelag Univ Coll	63	58	63	75	66					
	Univ of Nordland	136	151	138	176	200					
	Nord Univ						251	314	401	421	
Total	211	223	221	273	307	251	314	401	421	100%	
	Hedmark Univ Coll	109	115	102	150	151	162				
	Lillehammer Univ Coll	73	88	68	75	84	99				
	Inland Norway Univ of Applied Sci							316	296	329	
	Total	182	203	170	225	235	261	316	296	329	81%

Table A4. Number of people affiliated with the institutions who annually have published more than 1.0 (2011-2014 period) or 1.5 (2015-2018) publication points, 2011-2019

Case	Institution	2011	2012	2013	2014	2015	2016	2017	2018	2019	Increase
	Buskerud Univ Coll	19	24	19							
	Vestfold Univ Coll	43	35	41							
	Buskerud and Vestfold Univ Coll				69	66					
	Telemark Univ Coll	16	35	38	62	34					
	Univ Coll Southeast Norway						117	142			
	Univ South-Eastern Norway								138	140	
	Total	78	94	98	131	100	117	142	138	140	79%
	Bergen Univ Coll	33	32	38	45	46	57				
	Sogn og Fjordane Univ Coll	10	13	10	16	15	29				
	Stord/Haugesund Univ Coll	12	11	14	9	13	14				
	Western Norway Univ of Applied Sci							108	107	134	
	Total	55	56	62	70	74	100	108	107	134	144%
	Ålesund Univ Coll	5	7	6	15	17					
	Gjøvik Univ Coll	21	27	24	31	45					
	Sør-Trøndelag Univ Coll	45	34	35	35	33					
	Norwegian Univ of Science and Tech	730	859	850	797	814	976	952	1061	1140	
	Total	801	927	915	878	909	976	952	1061	1140	42%
	Finnmark Univ Coll	9	16	9							
	Harstad Univ Coll	8	8	7	6	2					
	Narvik Univ Coll	13	15	17	24	10					
	Univ Tromsø	303	293								
	Univ Tromsø - Arctic Univ of Norway			265	311						
	UIT - The Arctic Univ of Norway					339	381	395	392	401	
	Total	333	332	298	341	351	381	395	392	401	20%
	Nesna Univ Coll	1	6	2	4	8					
	Nord-Trøndelag Univ Coll	11	17	18	21	11					
	Univ of Nordland	42	49	29	42	58					
	Nord Univ						53	72	92	103	
	Total	54	72	49	67	77	53	72	92	103	91%
	Hedmark Univ Coll	24	38	27	46	40	46				
	Lillehammer Univ Coll	36	36	27	21	21	24				
	Inland Norway Univ of Applied Sci							75	75	97	
	Total	60	74	54	67	61	70	75	75	97	62%

Table A5. Proportion of level 2 publications by institution (author shares), 2011-2019

Case	Institution	2011	2012	2013	2014	2015	2016	2017	2018	2019	Total
	Buskerud Univ Coll	4%	7%	9%							6%
	Vestfold Univ Coll	12%	11%	8%							10%
	Buskerud and Vestfold Univ Coll				7%	10%					8%
	Telemark Univ Coll	6%	17%	12%	9%	11%					11%
	Univ Coll Southeast Norway						10%	11%			10%
	Univ South-Eastern Norway								13%	12%	13%
	Total	8%	12%	9%	8%	10%	10%	11%	13%	12%	10%
	Bergen Univ Coll	18%	15%	11%	18%	11%	11%				14%
	Sogn og Fjordane Univ Coll	5%	10%	6%	8%	4%	15%				8%
	Stord/Haugesund Univ Coll	10%	6%	10%	11%	5%	5%				8%
	Western Norway Univ of Applied Sci							11%	15%	15%	14%
	Total	13%	12%	10%	15%	8%	11%	11%	15%	15%	12%
	Ålesund Univ Coll	9%	17%	11%	7%	6%					10%
	Gjøvik Univ Coll	5%	2%	3%	6%	7%					5%
	Sør-Trøndelag Univ Coll	12%	10%	11%	9%	12%					11%
	Norwegian Univ of Science and Tech	21%	22%	23%	23%	23%	21%	20%	22%	22%	22%
	Total	20%	20%	22%	21%	21%	21%	20%	22%	22%	21%
	Finnmark Univ Coll	12%	7%	18%							12%
	Harstad Univ Coll	15%	3%	3%	3%	0%					5%
	Narvik Univ Coll	9%	8%	1%	5%	7%					6%
	Univ Tromsø	22%	20%								21%
	Univ Tromsø - Arctic Univ of Norway			20%	19%						20%
	UiT - The Arctic Univ of Norway					21%	22%	23%	19%	21%	21%
	Total	21%	18%	18%	18%	21%	22%	23%	19%	21%	20%
	Nesna Univ Coll			1%	6%	1%					2%
	Nord-Trøndelag Univ Coll	8%	18%	14%	5%	13%					12%
	Univ of Nordland	24%	8%	15%	13%	26%					17%
	Nord Univ						12%	12%	17%	15%	14%
	Total	18%	10%	13%	10%	20%	12%	12%	17%	15%	14%
	Hedmark Univ Coll	6%	14%	12%	12%	8%	11%				10%
	Lillehammer Univ Coll	7%	13%	11%	26%	9%	8%				12%
	Inland Norway Univ of Applied Sci							15%	15%	21%	17%
	Total	6%	13%	11%	17%	9%	9%	15%	15%	21%	13%

Table A6. Proportion of articles within the top 10 percentile in terms of citation rate per institution, * 2011-2018

Case	Institution	2011	2012	2013	2014	2015	2016	2017	2018
	Buskerud Univ Coll	16%	2%	12%					
	Vestfold Univ Coll	4%	5%	12%					
	Buskerud and Vestfold Univ Coll				14%	13%			
	Telemark Univ Coll	8%	5%	6%	8%	11%			
	Univ Coll Southeast Norway						16%	13%	
	Univ South-Eastern Norway								10%
	Total	9%	4%	10%	12%	12%	16%	13%	10%
	Bergen Univ Coll	16%	23%	23%	17%	14%	15%		
	Sogn og Fjordane Univ Coll	7%	0%	12%	6%	11%	25%		
	Stord/Haugesund Univ Coll	4%	4%	9%	8%	10%	11%		
	Western Norway Univ of Applied Sci							9%	8%
	Total	13%	15%	18%	13%	13%	16%	9%	8%
	Ålesund Univ Coll	7%	0%	8%	10%	0%			
	Gjøvik Univ Coll	11%	6%	9%	18%	7%			
	Sør-Trøndelag Univ Coll	8%	7%	10%	5%	4%			
	Norwegian Univ of Science and Tech	13%	12%	12%	12%	13%	12%	12%	9%
	Total	13%	12%	12%	12%	12%	12%	12%	9%
	Finnmark Univ Coll	8%	0%	0%					
	Harstad Univ Coll	0%	0%	0%	0%	0%			
	Narvik Univ Coll	0%	5%	11%	6%	3%			
	Univ Tromsø	14%	14%						
	UiT - The Arctic Univ of Norway			13%	13%	13%	13%	14%	11%
	Total	14%	13%	13%	13%	12%	14%	14%	11%
	Nesna Univ Coll			0%	0%	0%			
	Nord-Trøndelag Univ Coll	4%	6%	3%	8%	12%	4%		
	Univ of Nordland	16%	9%	13%	13%	11%	16%		
	Nord Univ						15%	6%	7%
	Total	13%	8%	10%	11%	11%	15%	6%	7%
	Hedmark Univ Coll	15%	8%	7%	14%	9%	11%		
	Lillehammer Univ Coll	11%	9%	15%	18%	10%	8%		
	Inland Norway Univ of Applied Sci							7%	5%
	Total	14%	8%	10%	15%	9%	10%	7%	5%

Table A7. Distribution of publications by fields, 2011-2019. Relative shares by institution.

Domain	Field	USN	HVL	NTNU	UiT	Nord	HINN
Humanities	Archaeology and Conservation	0.1%	0.0%	0.5%	0.8%	0.2%	0.0%
	Architecture and Design	0.8%	0.1%	0.5%	0.1%	0.2%	0.0%
	Art History	0.1%	0.0%	0.1%	0.1%	0.0%	0.1%
	Asian and African Studies	0.1%	0.0%	0.1%	0.0%	0.1%	0.0%
	Classical Studies	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%
	Dance	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	English Studies	0.4%	0.2%	0.1%	0.2%	0.4%	0.4%
	Ethnology	0.4%	0.3%	0.2%	0.6%	0.4%	0.2%
	Germanic Studies	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%
	History	1.8%	0.9%	1.0%	1.3%	2.9%	0.6%
	Interdisciplinary Humanities	2.8%	1.0%	0.3%	1.6%	0.9%	0.5%
	Linguistics	0.8%	1.2%	0.8%	2.7%	0.2%	2.0%
	Literature	1.4%	1.2%	0.4%	1.4%	0.6%	3.1%
	Media and Communication	0.4%	0.2%	0.5%	0.3%	1.4%	2.8%
	Musicology	0.5%	1.2%	0.2%	0.1%	0.6%	1.9%
	Philosophy and History of Ideas	0.6%	0.2%	0.5%	1.0%	1.2%	0.8%
	Romance Studies	0.1%	0.0%	0.1%	0.3%	0.0%	0.1%
	Scandinavian Studies	0.6%	1.0%	0.4%	0.8%	0.5%	1.4%
	Slavonic Studies	0.0%	0.0%	0.0%	0.6%	0.0%	0.1%
	Theatre and Drama	0.0%	0.6%	0.2%	0.1%	0.3%	0.6%
Theology and religion	0.5%	0.3%	0.4%	1.3%	0.7%	0.8%	
Total		11.5%	8.7%	6.4%	13.5%	10.7%	15.5%
Medicine and health	Anaesthesia, Emergency and Intensive Care	0.1%	0.1%	0.2%	0.5%	0.3%	0.0%
	Biomedicine	0.5%	1.4%	2.2%	4.6%	1.8%	1.6%
	Cardiovascular and Respiratory Systems	0.1%	0.4%	0.9%	2.0%	0.3%	0.1%
	Dentistry	0.1%	0.0%	0.0%	0.9%	0.0%	0.1%
	Dermatology and Venerology	0.1%	0.1%	0.1%	0.2%	0.0%	0.3%
	Endocrinology	0.1%	1.0%	0.4%	1.1%	0.2%	0.2%
	Eye diseases	1.0%	0.0%	0.1%	0.1%	0.0%	0.0%
	Gastroenterology and Hepatology	0.0%	0.2%	0.3%	0.4%	0.0%	0.3%
	General Medicine	0.3%	1.2%	0.9%	1.9%	0.6%	0.5%
	Geriatrics	0.2%	0.7%	0.3%	0.2%	0.3%	0.0%
	Gynecology and Obstetrics	0.2%	0.4%	0.6%	1.2%	0.2%	0.2%
	Haematology	0.0%	0.0%	0.2%	0.3%	0.0%	0.0%
	Infections	0.0%	0.1%	0.1%	0.5%	0.0%	0.1%
	Nephrology	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%
	Neurology	0.4%	0.3%	2.1%	1.4%	0.3%	0.5%
	Nursing	6.3%	8.2%	1.2%	1.3%	6.4%	3.5%
	Nutrition	0.0%	0.1%	0.0%	0.1%	0.0%	0.1%
	Oncology	0.4%	0.3%	0.9%	3.7%	0.3%	0.0%
	Otorhinolaryngology	0.0%	0.2%	0.1%	0.0%	0.0%	0.0%
	Pediatrics	0.1%	0.4%	0.2%	0.3%	0.1%	0.2%
	Pharmacology and Toxicology	0.1%	0.2%	0.8%	2.1%	0.7%	0.6%
	Psychiatry	1.0%	0.7%	1.1%	1.3%	0.5%	1.7%
	Psychology	3.0%	2.9%	2.3%	2.7%	4.1%	5.1%
	Public, Environmental, Occupational Health	5.2%	5.3%	2.7%	5.6%	3.2%	4.0%
	Radiology, Nuclear Medicine, Medical Imagi	0.5%	0.3%	0.5%	0.3%	0.1%	0.0%
	Rheumatology	0.1%	0.3%	0.3%	0.5%	0.1%	0.0%
	Sport Sciences	1.5%	2.5%	0.9%	0.6%	4.1%	5.0%
Surgical Sciences	0.1%	0.9%	0.4%	0.5%	0.1%	0.1%	
Veterinary Medicine	0.2%	0.1%	0.1%	0.6%	1.2%	1.6%	
Total		21.6%	28.3%	20.1%	35.3%	24.9%	25.7%
Natural sciences	Biology	3.2%	2.2%	4.6%	8.3%	11.1%	10.8%
	Chemistry	0.5%	0.2%	2.3%	2.4%	0.3%	0.4%
	Earth sciences	1.9%	2.0%	3.1%	6.5%	1.4%	0.7%
	Informatics	2.1%	2.9%	4.0%	0.9%	0.7%	0.4%
	Interdisciplinary Natural Sciences	1.9%	2.2%	2.4%	3.9%	2.1%	2.4%
	Mathematics	1.0%	3.4%	3.4%	2.2%	0.7%	0.1%

	Physics	6.6%	10.6%	3.2%	2.4%	0.1%	0.0%
	Total	17.3%	23.6%	22.9%	26.5%	16.2%	14.9%
Social sciences	Anthropology	0.3%	0.2%	0.2%	1.2%	0.2%	0.2%
	Business and Finance	4.5%	3.8%	2.4%	2.3%	10.9%	6.2%
	Development Studies	0.2%	0.1%	0.2%	0.1%	0.3%	0.1%
	Economics	0.4%	0.8%	0.9%	0.6%	2.2%	2.6%
	Education and Educational Research	12.7%	12.7%	3.3%	3.6%	11.8%	16.8%
	Gender Studies	0.2%	0.1%	0.2%	0.2%	0.4%	0.3%
	Geography	0.7%	2.7%	1.1%	1.7%	2.4%	1.4%
	Interdisciplinary Social Sciences	2.4%	2.9%	1.5%	1.6%	6.4%	5.4%
	Law	0.2%	0.5%	0.1%	2.4%	0.7%	1.2%
	Library and Information Science	0.4%	0.4%	0.5%	0.5%	0.4%	0.3%
	Political Science	0.5%	0.6%	0.9%	1.6%	3.3%	3.1%
	Social Work	2.1%	3.3%	1.0%	1.5%	3.3%	3.0%
	Sociology	1.1%	0.9%	0.8%	0.6%	1.8%	1.8%
	Total	25.7%	28.8%	13.0%	17.8%	44.2%	42.4%
Engi- neering	Applied geology, petroleum science and eng	0.3%	0.0%	0.9%	0.3%	0.0%	0.0%
	Biotechnology	0.3%	0.0%	0.5%	0.5%	0.3%	0.1%
	Chemical Engineering	1.9%	0.2%	2.3%	0.0%	0.1%	0.0%
	Civil Engineering	0.3%	0.5%	2.8%	0.2%	0.3%	0.1%
	Computer and information sci, Computer eng	2.3%	3.8%	4.3%	1.5%	0.6%	0.3%
	Electric power engineering	0.5%	0.1%	1.9%	0.2%	0.0%	0.0%
	Electronics and cybernetics	4.6%	1.2%	5.6%	0.9%	0.0%	0.0%
	Energy	2.0%	0.7%	3.9%	0.3%	0.2%	0.1%
	Environmental technol and indust ecology	0.9%	0.2%	1.2%	0.5%	0.9%	0.2%
	General Technology	4.1%	1.1%	1.5%	0.6%	0.2%	0.4%
	Industrial engineering and management	0.1%	0.1%	0.5%	0.0%	0.1%	0.0%
	Interdisciplinary technology	0.7%	0.2%	3.7%	0.4%	0.2%	0.1%
	Marine Technology	2.8%	1.0%	4.4%	0.4%	0.1%	0.0%
	Materials Science and Engineering	0.8%	0.2%	2.1%	0.2%	0.3%	0.1%
	Mechanical engineering	2.4%	1.0%	1.3%	0.6%	0.5%	0.2%
	Networks and network based services	0.1%	0.1%	0.5%	0.1%	0.0%	0.0%
Total	24.0%	10.6%	37.5%	6.9%	4.0%	1.6%	

*) Based on the current institutional structure which is given retroactive status.

Table A8. Relative citation index by field and institution, * 2011-2018

Domain	Field	USN	HVL	NTNU	UiT	Nord	INN
Medicine and health	Anaesthesia, Emergency and Intensive Care			143	110		
	Biomedicine	71	94	221	173	96	98
	Cardiovascular and Respiratory Systems		76	165	129		
	Dentistry				121		
	Dermatology and Venerology			171	167		
	Endocrinology		73	133	137		
	Eye diseases	77		52	213		
	Gastroenterology and Hepatology			109	154		
	General Medicine		961	1206	1368		
	Geriatrics	86	84	118	94		
	Gynecology and Obstetrics		136	152	135		
	Haematology			214	125		
	Infections			104	102		
	Nephrology			326	191		
	Neurology	150	95	143	112	33	100
	Nursing	117	133	147	111	215	113
	Nutrition				85		
	Oncology	73	89	152	128		
	Otorhinolaryngology			91			
	Pediatrics		140	224	223		
	Pharmacology and Toxicology			129	106	95	103
	Psychiatry	84	100	104	127	64	90
	Psychology	147	76	97	110	70	76
Public, Environmental and Occupational Health	94	116	132	126	70	120	
Radiology, Nuclear Medicine and Medical Imaging	74		101	85			
Rheumatology		79	124	121			
Sport Sciences	106	128	127	95	110	127	
Surgical Sciences		188	125	183			
Veterinary Medicine			108	152	210	125	
Natural sciences	Biology	104	118	126	127	121	102
	Chemistry	86	21	83	96		
	Earth sciences	394	120	86	133	140	125
	Informatics	107	69	92	40		
	Interdisciplinary Natural Sciences	117	106	179	144	138	203
	Mathematics	37	78	129	105	38	
	Physics	185	202	102	75		
Social sciences	Anthropology			65	59		
	Business and Finance	108	154	128	117	135	155
	Development Studies			102			
	Economics		63	126	98	114	97
	Education and Educational Research	149	107	140	91	197	76
	Gender Studies			118	59		
	Geography	145	97	133	83	115	99
	Interdisciplinary Social Sciences	37	102	85	59	99	40
	Law			39	138		
	Library and Information Science			104	111		
	Political Science			191	98	145	82
Social Work	73	111	98	67	38	79	
Sociology	204		124	164	70	71	
Engi- neering	Applied geology, petroleum science and engineering			94	94		
	Biotechnology			97	121		
	Chemical Engineering	64		103			
	Civil Engineering	542	60	95	71		
	Computer and information science, Computer engineering	43		82	109		
	Electric power engineering	98		148			
	Electronics and cybernetics	55	60	94	47		

	Energy	76	83	107	58		
	Environmental technology and industrial ecology	145		154	409	172	
	General Technology	84		83	120		
	Industrial engineering and management			95			
	Marine Technology	30		96	61		
	Materials Science and Engineering	64	95	92	83		
	Mechanical engineering	43		124			
	Multidisciplinary technology		52	121	139		
	Networks and network based services			60			

**) Based on the current institutional structure which is given retroactive status. Figures are only shown for fields with at least 10 articles. Humanities not included.*

Table A9. Proportion of publications in the Norwegian language. Distribution by fields and institutions, * 2011-2019.

Domain	Field	USN	HVL	NTNU	UiT	Nord	HINN	AVG NOR
Humanities	Archaeology and Conservation			28%	18%			28%
	Architecture and Design	37%		8%	27%			18%
	Art History			32%				29%
	Asian and African Studies			5%				18%
	Classical Studies			9%	20%			21%
	Dance			28%				33%
	English Studies	0%	17%	4%	3%	7%	8%	2%
	Ethnology	45%	69%	27%	33%	57%		35%
	Germanic Studies			0%	14%			3%
	History	77%	76%	39%	49%	65%	83%	48%
	Interdisciplinary Humanities	24%	56%	36%	27%	47%	47%	30%
	Linguistics	24%	23%	18%	10%		16%	15%
	Literature	80%	64%	36%	41%	32%	79%	47%
	Media and Communication	50%	40%	30%	19%	70%	43%	29%
	Musicology	59%	37%	45%	33%	61%	30%	26%
	Philosophy and History of Ideas	61%	58%	31%	33%	41%	26%	30%
	Romance Studies			19%	0%	0%		4%
	Scandinavian Studies	65%	82%	87%	69%	72%	87%	76%
	Slavonic Studies				5%			17%
	Theatre and Drama		71%	51%	83%	83%	41%	55%
Theology and religion	69%	62%	14%	25%	54%	11%	37%	
Total	48%	54%	31%	28%	55%	47%	34%	
Medicine and health	Nursing	23%	28%	25%	35%	30%	13%	29%
	Psychiatry	10%	3%	6%	13%	6%	7%	8%
	Psychology	26%	30%	11%	20%	68%	25%	18%
	Public, Environmental & Occup Health	12%	15%	6%	5%	21%	21%	6%
	Total	16%	16%	6%	6%	23%	13%	7%
Natural sciences	Total	1%	5%	1%	1%	4%	3%	1%
Social sciences	Anthropology	29%		19%	28%			19%
	Business and Finance	24%	16%	16%	17%	18%	27%	16%
	Development Studies			1%	6%	0%		1%
	Economics	17%	22%	8%	23%	18%	47%	11%
	Education & Educational Research	62%	50%	45%	54%	56%	53%	47%
	Gender Studies	77%		52%	18%	38%		40%
	Geography	8%	20%	16%	23%	22%	16%	16%
	Interdisciplinary Social Sciences	35%	36%	20%	32%	34%	35%	34%
	Law	43%	71%	22%	37%	54%	62%	44%
	Library and Information Science	13%	14%	4%	4%	6%	9%	8%
	Political Science	34%	29%	14%	28%	24%	37%	18%
	Social Work	48%	29%	27%	28%	43%	33%	30%
Sociology	41%	21%	26%	29%	31%	16%	26%	
Total	46%	37%	25%	32%	34%	40%	28%	
Engineering	Total	0%	1%	0%	1%	0%	4%	1%

*) Based on the current institutional structure which is given retroactive status. Figures are only shown for fields with at least 10 articles. Moreover, fields where almost all publishing appear in English are not shown (natural sciences, engineering and medicine).

Table A10. Proportion of publications with co-authors from other Norwegian institutions. Distribution by fields and institutions, * 2011-2019.

Domain	Field	USN	HVL	NTNU	UiT	Nord	HINN
Humanities	Archaeology and Conservation			19%	10%		
	Architecture and Design	28%		20%	0%		
	Art History			2%	0%		
	Asian and African Studies			7%			
	Classical Studies			0%	0%		
	Dance			17%			
	English Studies	9%	0%	0%	3%	0%	0%
	Ethnology	18%	8%	23%	13%	36%	
	Germanic Studies			17%	21%		
	History	17%	31%	8%	11%	15%	6%
	Interdisciplinary Humanities	22%	17%	16%	18%	16%	18%
	Linguistics	28%	22%	19%	13%		14%
	Literature	18%	8%	1%	7%	9%	4%
	Media and Communication	21%	60%	11%	17%	24%	9%
	Musicology	28%	15%	9%	5%	17%	20%
	Philosophy and History of Ideas	9%	25%	9%	7%	14%	7%
	Romance Studies			8%	4%		
	Scandinavian Studies	11%	26%	19%	7%	11%	15%
	Slavonic Studies				3%		
	Theatre and Drama		14%	21%	22%	33%	6%
Theology and religion	14%	23%	14%	5%	12%	19%	
Total		20%	20%	13%	10%	16%	12%
Medicine and health	Anaesthesia, Emergency & Intensive Care			94%	95%	90%	
	Biomedicine	68%	72%	61%	60%	48%	80%
	Cardiovascular and Respiratory Systems		85%	78%	83%	90%	
	Dentistry			75%	36%		
	Dermatology and Venerology			88%	90%		
	Endocrinology		81%	82%	82%		
	Eye diseases	45%		66%	83%		
	Gastroenterology and Hepatology			88%	78%		
	General Medicine	53%	78%	76%	66%	50%	71%
	Geriatrics	67%	67%	75%	55%	33%	
	Gynecology and Obstetrics	40%	85%	92%	80%		
	Haematology			86%	83%		
	Infections			84%	91%		
	Nephrology			100%	95%		
	Neurology	80%	75%	67%	80%	50%	80%
	Nursing	56%	75%	62%	51%	39%	63%
	Oncology	72%	100%	83%	84%	67%	
	Otorhinolaryngology		100%	81%			
	Pediatrics		75%	88%	78%		
	Pharmacology and Toxicology			64%	58%	67%	95%
	Psychiatry	71%	90%	77%	62%	88%	87%
	Psychology	58%	67%	49%	44%	26%	55%
	Public, Environmental & Occupational Hlt	50%	71%	67%	60%	62%	66%
	Radiology, Nuclear Medicine & Medical Im	93%	25%	75%	67%		
Rheumatology		40%	93%	78%			
Sport Sciences	56%	63%	57%	43%	49%	50%	
Surgical Sciences		93%	90%	95%			
Veterinary Medicine	55%		65%	67%	40%	58%	
Total	58%	73%	70%	65%	46%	65%	
Natural sciences	Biology	58%	64%	47%	51%	46%	63%
	Chemistry	29%	58%	28%	15%	10%	83%
	Earth sciences	35%	51%	46%	51%	52%	45%
	Informatics	28%	35%	22%	31%	52%	43%
	Interdisciplinary Natural Sciences	53%	73%	48%	60%	41%	72%
	Mathematics	39%	11%	18%	14%	20%	
Physics	84%	95%	23%	18%			

	Total	59%	66%	33%	43%	44%	64%
Social sciences	Anthropology	76%		12%	14%		
	Business and Finance	45%	42%	39%	34%	34%	39%
	Development Studies	40%		11%	11%	30%	
	Economics	63%	49%	41%	23%	18%	43%
	Education and Educational Research	30%	28%	23%	22%	26%	23%
	Gender Studies	8%		13%	15%	31%	
	Geography	30%	48%	40%	30%	31%	45%
	Interdisciplinary Social Sciences	45%	51%	38%	36%	24%	30%
	Law	21%	46%	67%	8%	42%	18%
	Library and Information Science	26%	29%	27%	33%	31%	55%
	Political Science	34%	71%	41%	29%	33%	35%
	Social Work	63%	69%	60%	56%	40%	50%
	Sociology	33%	42%	32%	43%	23%	12%
	Total	38%	41%	34%	27%	30%	31%
Engi- neering	Applied geology, petroleum sci and engin	21%		45%	28%		
	Biotechnology	80%		60%	56%	27%	
	Chemical Engineering	61%	67%	35%			
	Civil Engineering	41%	48%	39%	25%	58%	
	Computer & information sci,computer eng	22%	32%	18%	41%	35%	50%
	Electric power engineering	39%		45%	32%		
	Electronics and cybernetics	32%	28%	26%	20%		
	Energy	50%	11%	49%	18%		
	Environmental technology & industr ecol	46%		34%	48%	26%	
	General Technology	24%	22%	35%	41%		36%
	Industrial engineering and management			33%			
	Marine Technology	58%		38%	53%		
	Materials Science and Engineering	35%	18%	43%	18%		
	Mechanical engineering	35%	50%	22%	19%	55%	
	Multidisciplinary technology	34%	38%	38%	38%	21%	
Networks and network based services			17%	39%			
	Total	36%	32%	35%	35%	39%	52%

*) Based on the current institutional structure which is given retroactive status. Figures are only shown for fields with at least 10 articles.

Table A11. Proportion of publications with co-authors affiliated with institutions in other countries. Distribution by fields and institutions, * 2011-2019.

Domain	Field	USN	HVL	NTNU	UiT	Nord	HINN
Humanities	Archaeology and Conservation			21%	15%		
	Architecture and Design	13%		23%	27%		
	Art History			12%	0%		
	Asian and African Studies			16%			
	Classical Studies			9%	0%		
	Dance			11%			
	English Studies	9%	25%	20%	20%	7%	0%
	Ethnology	9%	0%	7%	13%	14%	
	Germanic Studies			11%	11%		
	History	1%	9%	11%	15%	9%	6%
	Interdisciplinary Humanities	11%	15%	12%	20%	13%	6%
	Linguistics	9%	17%	27%	29%		19%
	Literature	10%	0%	3%	3%	5%	3%
	Media and Communication	13%	0%	27%	15%	4%	12%
	Musicology	7%	27%	6%	5%	13%	23%
	Philosophy and History of Ideas	3%	0%	8%	8%	9%	22%
	Romance Studies			19%	9%		
	Scandinavian Studies	3%	2%	2%	5%	0%	7%
	Slavonic Studies				20%		
	Theatre and Drama		4%	10%	0%	0%	0%
Theology and religion	0%	8%	19%	13%	8%	11%	
Total		8%	11%	15%	16%	9%	11%
Medicine and health	Anaesthesia, Emergency & Intensive Care			39%	33%	30%	
	Biomedicine	54%	41%	63%	62%	68%	57%
	Cardiovascular and Respiratory Systems		35%	57%	48%		
	Dentistry			58%	77%		
	Dermatology and Venerology			42%	72%		
	Endocrinology		55%	59%	52%		
	Eye diseases	66%		59%	87%		
	Gastroenterology and Hepatology			44%	55%		
	General Medicine	47%	47%	48%	54%	30%	47%
	Geriatrics	42%	39%	59%	70%	58%	
	Gynecology and Obstetrics	60%	75%	52%	68%		
	Haematology			73%	60%		
	Infections			47%	56%		
	Nephrology			69%	27%		
	Neurology	60%	56%	56%	50%	30%	80%
	Nursing	37%	31%	38%	35%	46%	59%
	Oncology	56%	31%	62%	72%	75%	
	Otorhinolaryngology		36%	33%			
	Pediatrics		75%	40%	58%		
	Pharmacology and Toxicology			55%	54%	52%	65%
	Psychiatry	34%	53%	46%	42%	29%	47%
	Psychology	34%	22%	43%	37%	10%	44%
	Public, Environmental and Occupational Health	50%	42%	43%	55%	39%	37%
	Radiology, Nuclear Medicine, Medical Imaging	37%	81%	40%	50%		
	Rheumatology		60%	56%	57%		
	Sport Sciences	44%	49%	37%	42%	41%	38%
Surgical Sciences		61%	34%	45%			
Veterinary Medicine	91%		38%	54%	58%	72%	
Total	45%	40%	50%	55%	41%	48%	
Natural sciences	Biology	63%	40%	65%	64%	61%	65%
	Chemistry	68%	42%	60%	75%	90%	75%
	Earth sciences	72%	73%	56%	74%	78%	77%
	Informatics	38%	45%	40%	26%	17%	14%
	Interdisciplinary Natural Sciences	61%	45%	61%	65%	55%	74%
	Mathematics	21%	53%	56%	70%	76%	
Physics	92%	98%	59%	61%			

	Total	70%	72%	56%	67%	61%	66%
Social sciences	Anthropology	18%		12%	23%		
	Business and Finance	34%	29%	37%	29%	38%	36%
	Development Studies	20%		49%	44%	30%	
	Economics	25%	24%	36%	39%	31%	21%
	Education and Educational Research	11%	14%	15%	13%	15%	13%
	Gender Studies	8%		4%	15%	25%	
	Geography	33%	31%	29%	32%	31%	34%
	Interdisciplinary Social Sciences	25%	24%	18%	26%	23%	18%
	Law	14%	13%	26%	16%	4%	3%
	Library and Information Science	17%	62%	43%	30%	6%	27%
	Political Science	17%	39%	26%	31%	48%	23%
	Social Work	24%	32%	28%	31%	23%	30%
	Sociology	30%	16%	20%	22%	15%	21%
	Total	19%	22%	25%	24%	27%	21%
Engi- neering	Applied geology, petroleum sci and eng	37%		27%	49%		
	Biotechnology	40%		48%	52%	64%	
	Chemical Engineering	35%	83%	43%			
	Civil Engineering	47%	24%	42%	41%	8%	
	Computer & information sci, Computer en	31%	56%	44%	33%	35%	60%
	Electric power engineering	52%		41%	18%		
	Electronics and cybernetics	35%	67%	46%	36%		
	Energy	24%	69%	40%	47%		
	Environmental technology and indus ecol	35%		55%	70%	71%	
	General Technology	32%	17%	39%	49%		29%
	Industrial engineering and management			36%			
	Marine Technology	8%		31%	21%		
	Materials Science and Engineering	34%	82%	54%	43%		
	Mechanical engineering	39%	60%	50%	19%	36%	
	Multidisciplinary technology	29%	52%	40%	43%	53%	
	Networks and network based services			55%	44%		
	Total	33%	54%	43%	41%	49%	46%

**) Based on the current institutional structure which is given retroactive status. Figures are only shown for fields with at least 10 articles*