Publication Report

Helmut Simonis and Cemalettin Öztürk

Report Generated on April 22, 2024

1 Data Quality

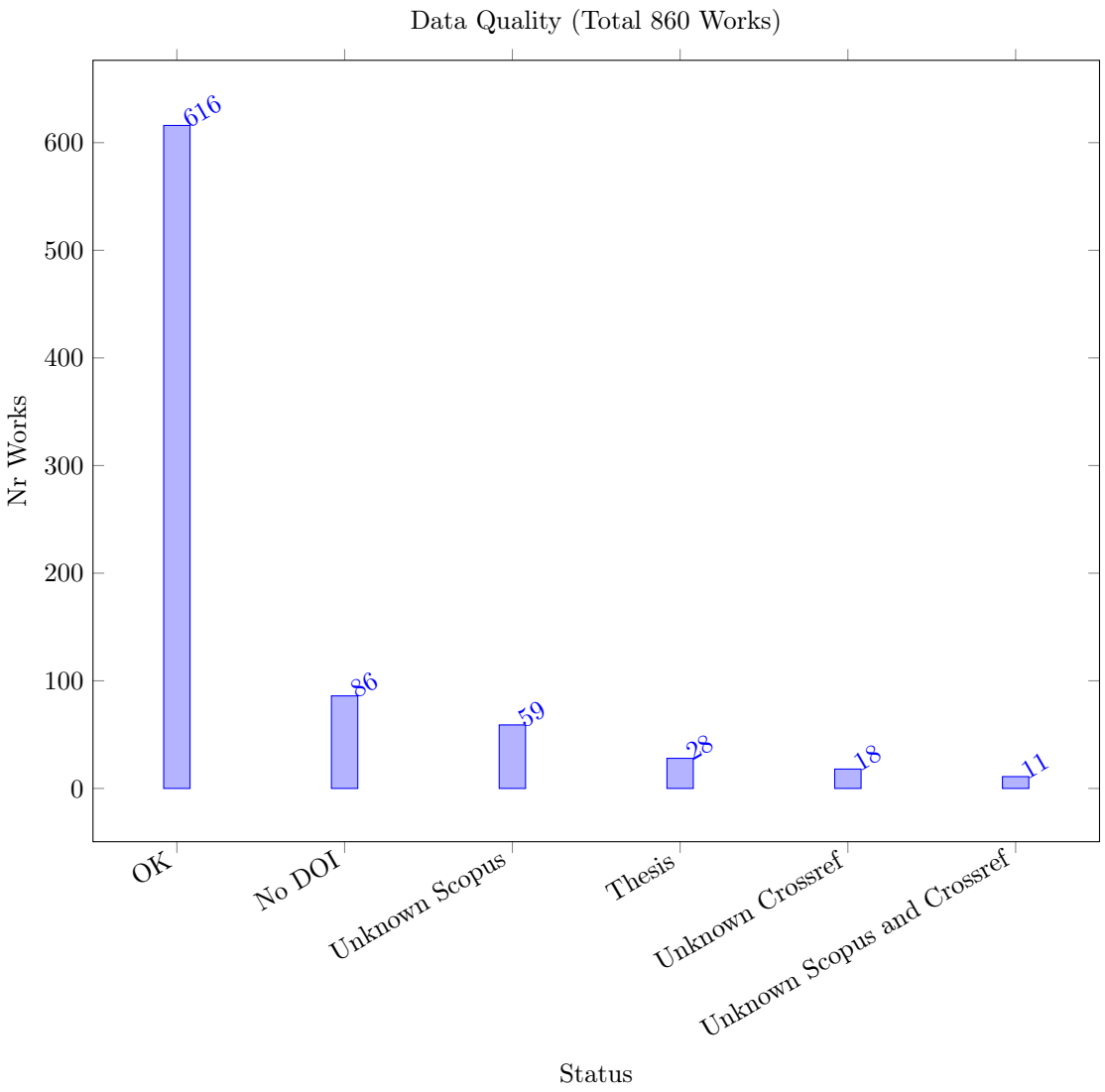


Table 1: Works Unknown to Crossref and Scopus

Key	DOI	Source Group	Year
abs-2402-00459	10.48550/arxiv.2402.00459	Preprint	2024
abs-2305-19888	10.48550/arxiv.2305.19888	Preprint	2023
abs-2306-05747	10.48550/arxiv.2306.05747	Preprint	2023
abs-2312-13682	10.48550/arxiv.2312.13682	Preprint	2023
abs-2211-14492	10.48550/arxiv.2211.14492	Preprint	2022
KanetAG04	10.1201/9780203489802.ch47	Incoll	2004
AronssonBK09	10.4230/oasics.atmos.2009.2141	OtherConf	2009
BeckF98	10.1609/aimag.v19i4.1426	AIJournal	1998
GokPTGO23	10.1007/s10479-022-04547-	ORJournal	2023
OrnekOS20	10.1007/s12351-020-00563-	ORJournal	2022
OrnekO16	10.23055/ijietap.2016.23.1.1930	OtherJournal	2016

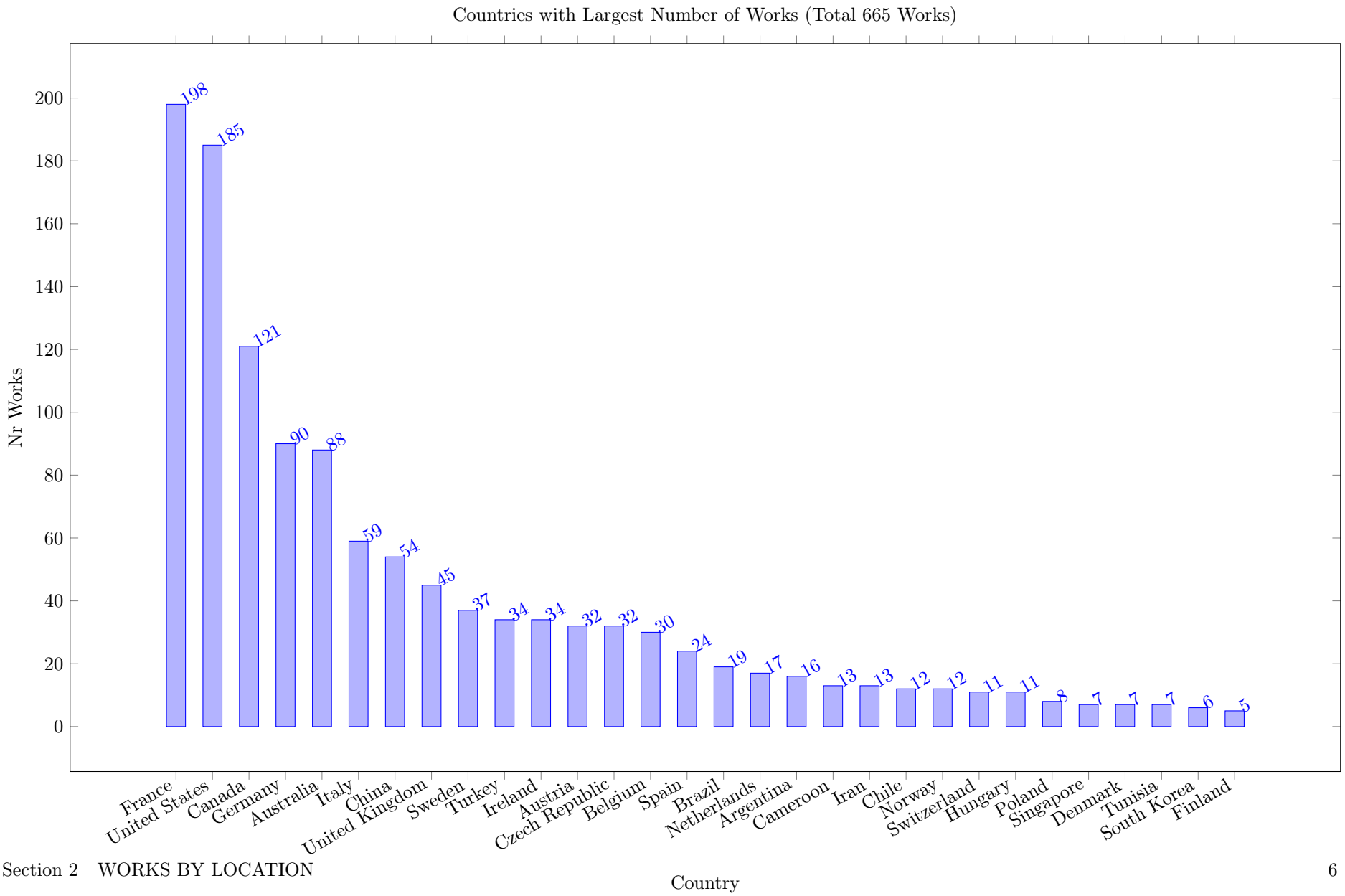
Table 2: Works Unknown to Crossref

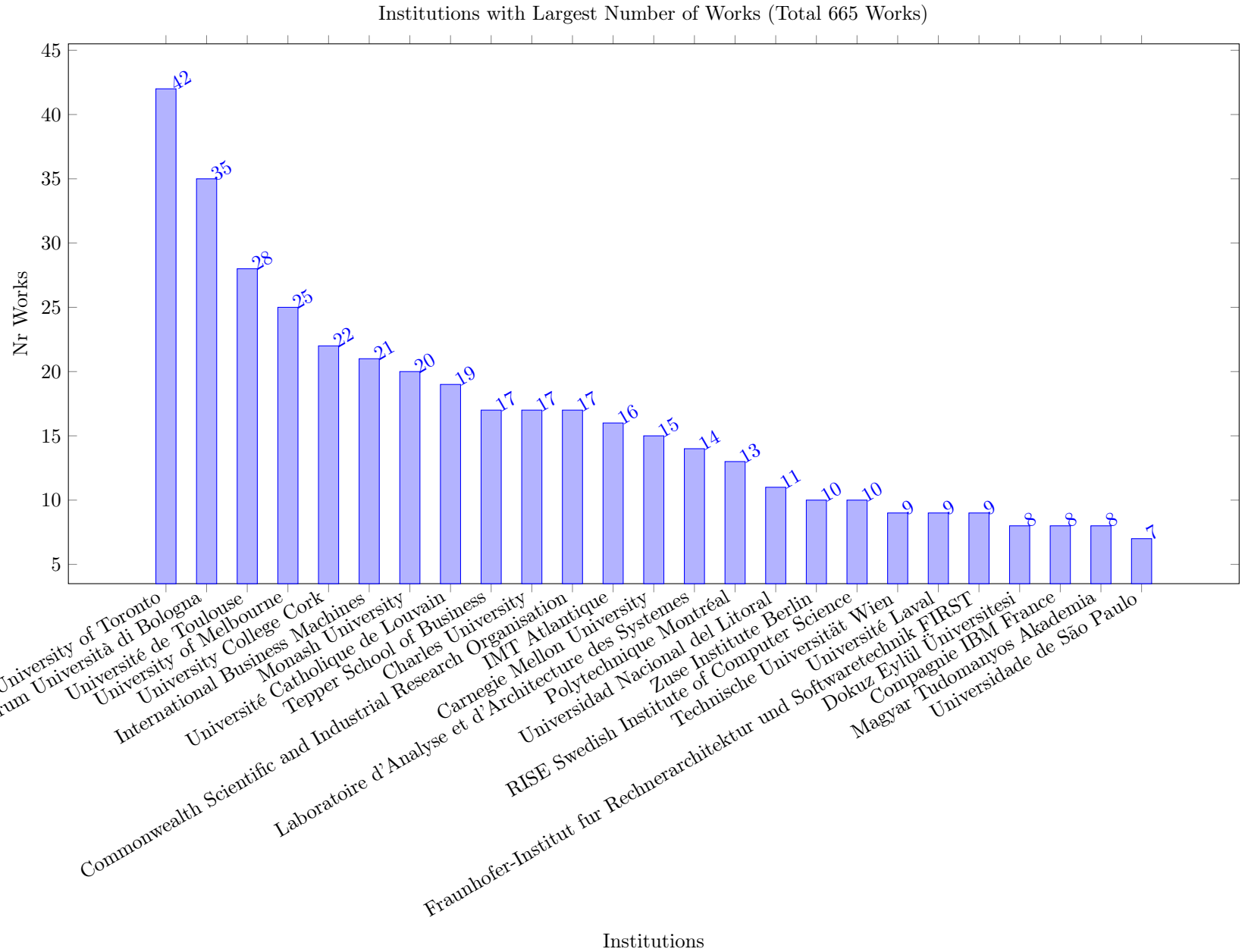
Key	DOI	Source Group	Year
JuvinHHL23	10.4230/lipics.cp.2023.19	CP	2023
PovedaAA23	10.4230/lipics.cp.2023.31	CP	2023
AalianPG23	10.4230/lipics.cp.2023.6	CP	2023
KameugneFND23	10.4230/lipics.cp.2023.20	CP	2023
ArmstrongGOS21	10.4230/lipics.cp.2021.16	CP	2021
BoudreaultSLQ22	10.4230/lipics.cp.2022.10	CP	2022
PopovicCGNC22	10.4230/lipics.cp.2022.34	CP	2022
WinterMMW22	10.4230/lipics.cp.2022.41	CP	2022
AntuoriHHEN21	10.4230/lipics.cp.2021.14	CP	2021
KovacsTKSG21	10.4230/lipics.cp.2021.36	CP	2021
LacknerMMWW21	10.4230/lipics.cp.2021.37	CP	2021
WangB20	10.3233/faia200114	ECAI	2020
BarzegaranZP20	10.4230/oasics.fog-iot.2020.3	OtherConf	2020
BridiLBBM16	10.3233/978-1-61499-672-9-1598	ECAI	2016
BartakV15	10.5220/0005215701190130	OtherConf	2015
TranB12	10.3233/978-1-61499-098-7-774	ECAI	2012
Hunsberger08	10.3233/978-1-58603-891-5-553	ECAI	2008
OddiRC10	10.3233/978-1-60750-606-5-967	ECAI	2010

Table 3: Works Unknown to Scopus

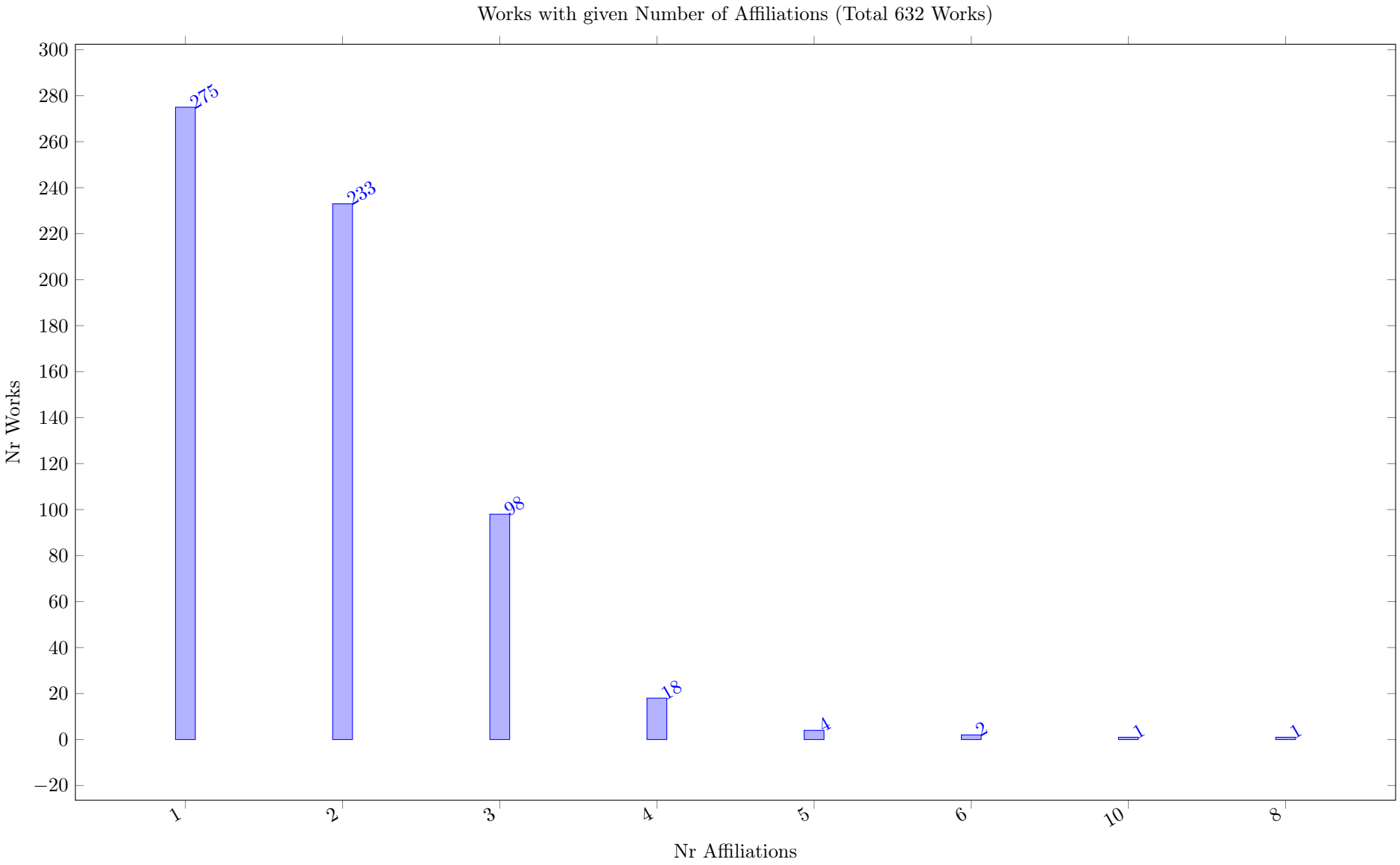
Key	DOI	Source Group	Year
Caballero23	10.1007/s10601-023-09357-0	Constraints	2023
Siala15	10.1007/s10601-015-9213-y	Constraints	2015
Kameugne15	10.1007/s10601-015-9227-5	Constraints	2015
Baptiste09	10.1007/978-3-642-04244-7_1	CP	2009
ElkhyariGJ02	10.1007/3-540-46135-3_49	CP	2002
RiahiNS018	10.1609/icaps.v28i1.13895	ICAPS	2018
QinWSLS21	10.1109/tase.2019.2947398	OtherJournal	2021
GeibingerMM21	10.1609/aaai.v35i7.16789	AAAI	2021
GodetLHS20	10.1609/aaai.v34i02.5510	AAAI	2020
NishikawaSTT19	10.15803/ijnc.9.2_131	OtherJournal	2019
Bonfietti16	10.3233/ia-160095	AIJournal	2016
FriedrichFMRSST14	10.1007/978-3-319-28697-6_23	OtherConf	2014
MonetteDH09	10.1609/icaps.v19i1.13356	ICAPS	2009
Limtanyakul07	10.1007/978-3-540-77903-2_65	OtherConf	2007
Tsang03	10.1023/a:1024016929283	OtherJournal	2003
ZhuS02	10.1007/3-540-47961-9_69	OtherConf	2002
LopezAKYG00	10.1016/s0947-3580(00)71114-9	OtherJournal	2000
PembertonG98	10.1090/dimacs/057/06	OtherConf	1998
BaptisteLV92	10.1109/robot.1992.220195	OtherConf	1992
BonfiettiLM13	10.1609/icaps.v23i1.13608	ICAPS	2013
LombardiM13	10.1609/icaps.v23i1.13580	ICAPS	2013
FallahiAC20	10.1504/ijams.2020.10026882	OtherJournal	2020
BlazewiczEP19	10.1007/978-3-319-99849-7	Incoll	2019
HebrardALLCMR22	10.24963/ijcai.2022/643	IJCAI	2022
LipovetzkyBPS14	10.1609/icaps.v24i1.13666	ICAPS	2014
TranVNB17a	10.24963/ijcai.2017/726	IJCAI	2017
TranDRFWOVB16	10.1609/socs.v7i1.18390	OtherConf	2016
TranTDB13	10.1609/icaps.v23i1.13552	ICAPS	2013
BajestaniB11	10.1609/icaps.v21i1.13450	ICAPS	2011
NaderiBZ22	10.2139/ssrn.4140716	Preprint	2022
BaptistePN01	10.1007/978-1-4615-1479-4	Book	2001
MercierH08	10.1287/ijoc.1070.0226	InformsJC	2008
CarlierP89	10.1287/mnsc.35.2.164	Background	1989
Hooker00	10.1002/9781118033036	Book	2000
CarlierP90	10.1007/bf03543071	Background	1990
Simonis99	10.1007/3-540-45406-3_6	OtherConf	1999
Simonis95a	10.1007/3-540-60794-3_11	OtherConf	1995
DannaP04	10.1007/978-1-4419-8917-8_2	Inbook	2004
JuvinHL22	10.2139/ssrn.4068164	Preprint	2022
NeronABCDD06	10.1007/978-0-387-33768-5_7	Inbook	2006
DorndorfPH99	10.1007/978-3-642-58409-1_35	OtherConf	1999

2 Works by Location

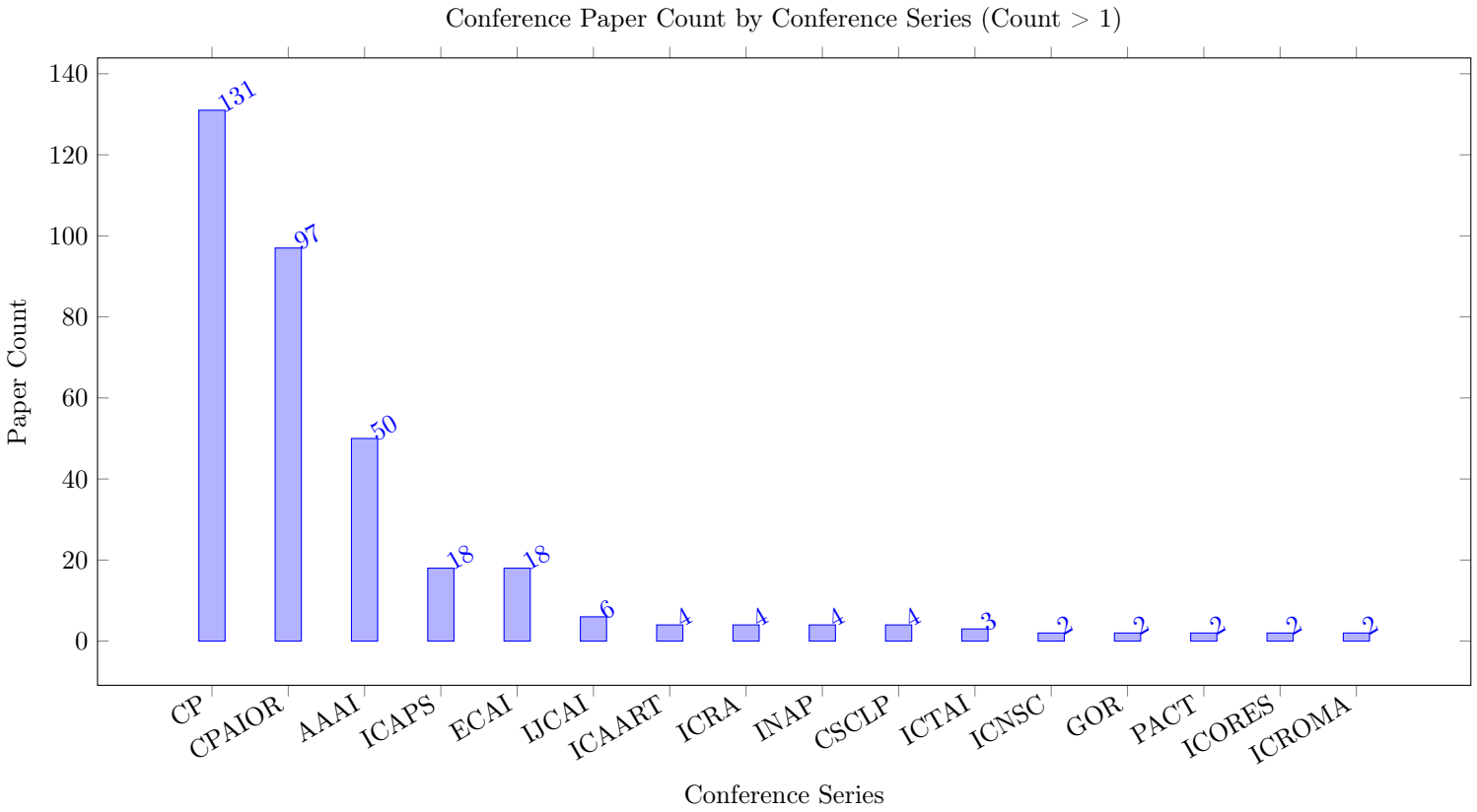


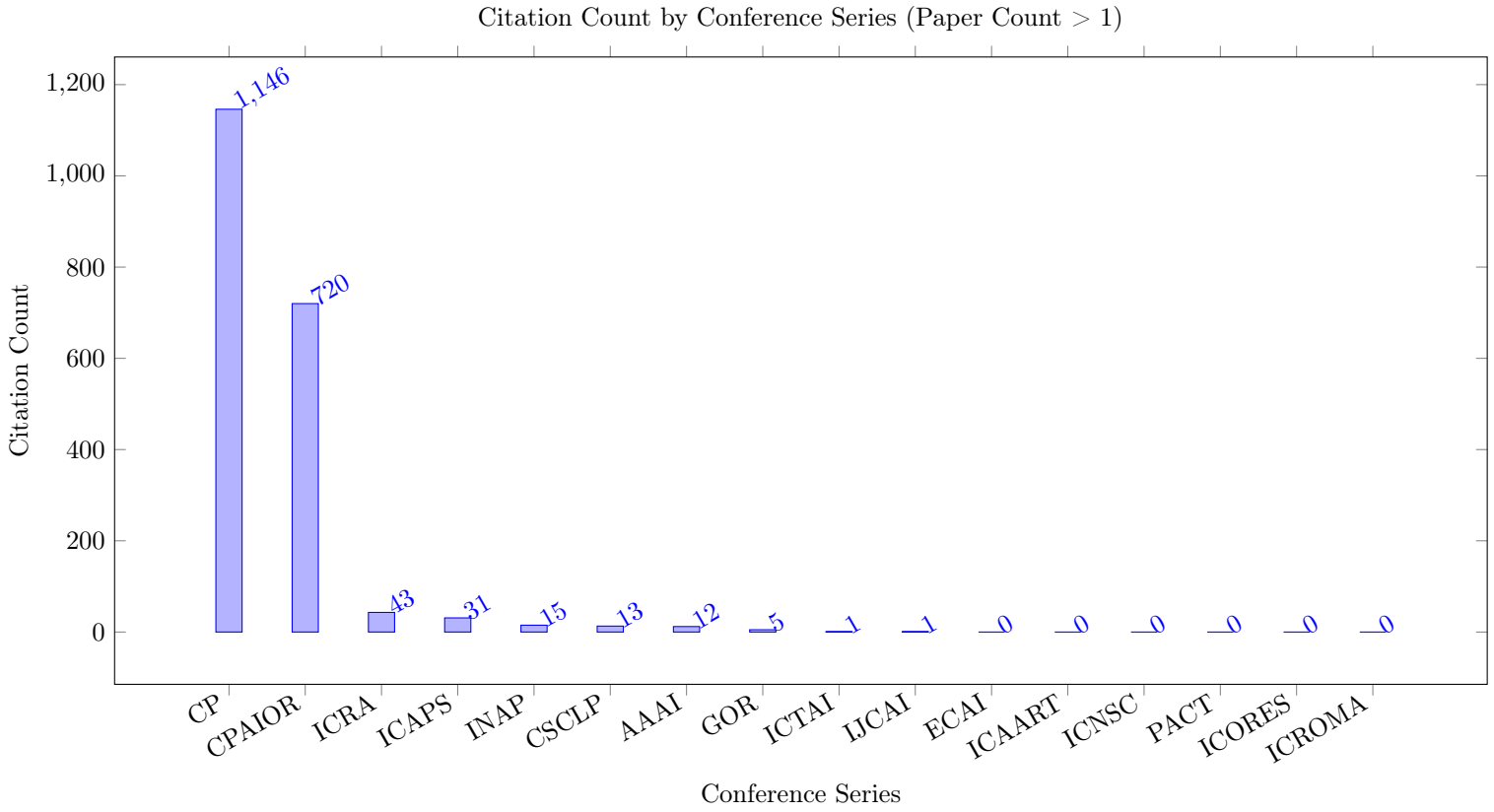

Institutions with Largest Number of Works (Total 665 Works)
Nr Works
45
40
35
30
25
20
15
10
5
42
35
28
25
22
21
20
19
17
17
17
16
15
14
13
11
10
10
9
9
9
8
8
8
7
University of Toronto
Alma Mater Studiorum Università di Bologna
Université de Toulouse
University of Melbourne
University College Cork
International Business Machines
Monash University
Université Catholique de Louvain
Tepper School of Business
Charles University
Commonwealth Scientific and Industrial Research Organisation
IMT Atlantique
Carnegie Mellon University
Laboratoire d'Analyse et d'Architecture des Systemes
Polytechnique Montréal
Universidad Nacional del Litoral
RISE Swedish Institute of Computer Science
Zuse Institute Berlin
Technische Universität Wien
Fraunhofer-Institut fur Rechnerarchitektur und Softwaretechnik
Université Laval
Dokuz Eylül Üniversitesi
FIRST
Compagnie IBM France
Magyar Tudomanyos Akademia
Universidade de São Paulo
Institutions

3 Collaborations



4 Conference Papers by Most Common Conference Series




Citation Count by Conference Series (Paper Count > 1)
Citation Count
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1,000
800
600
400
200
0
1,146
720
43
31
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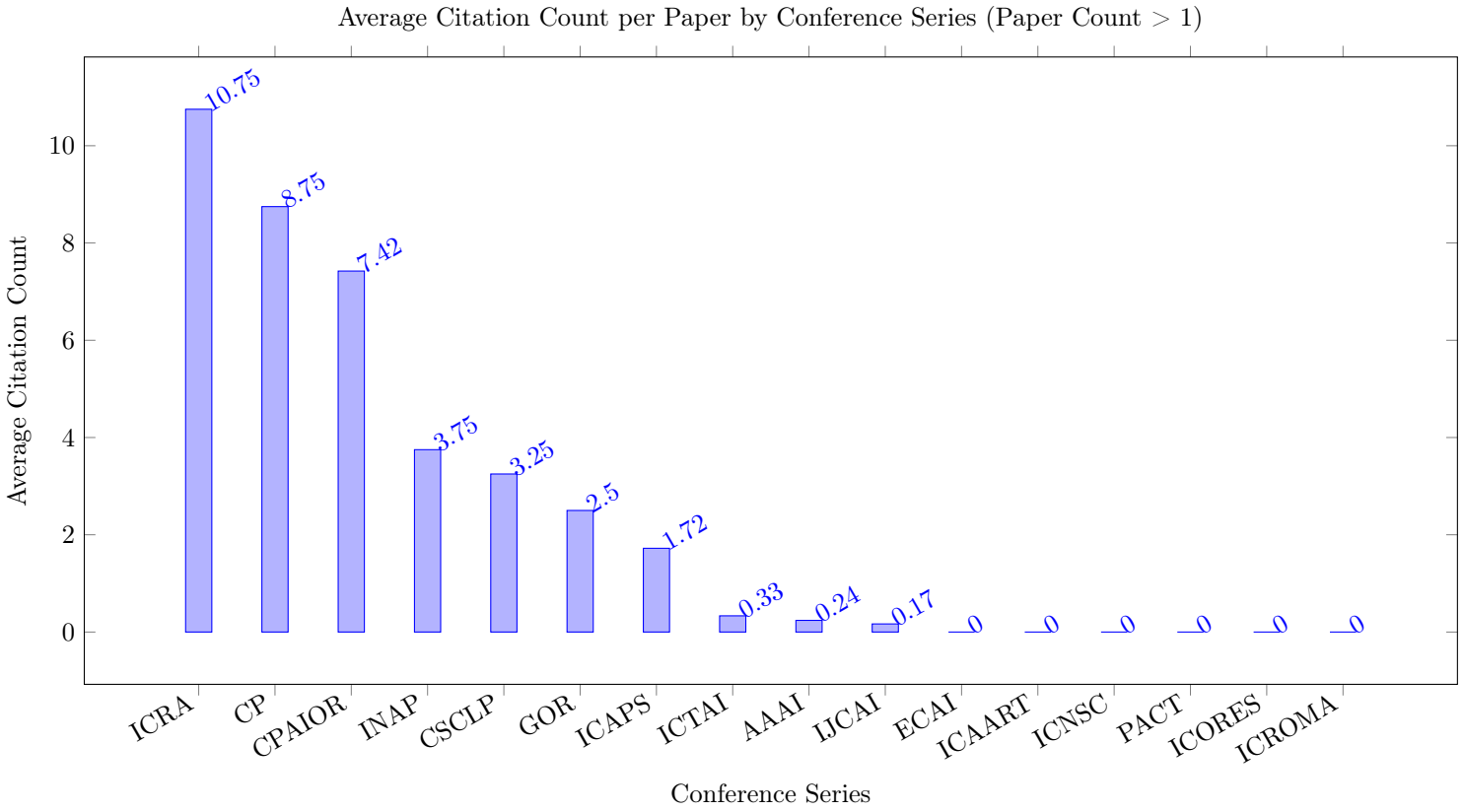
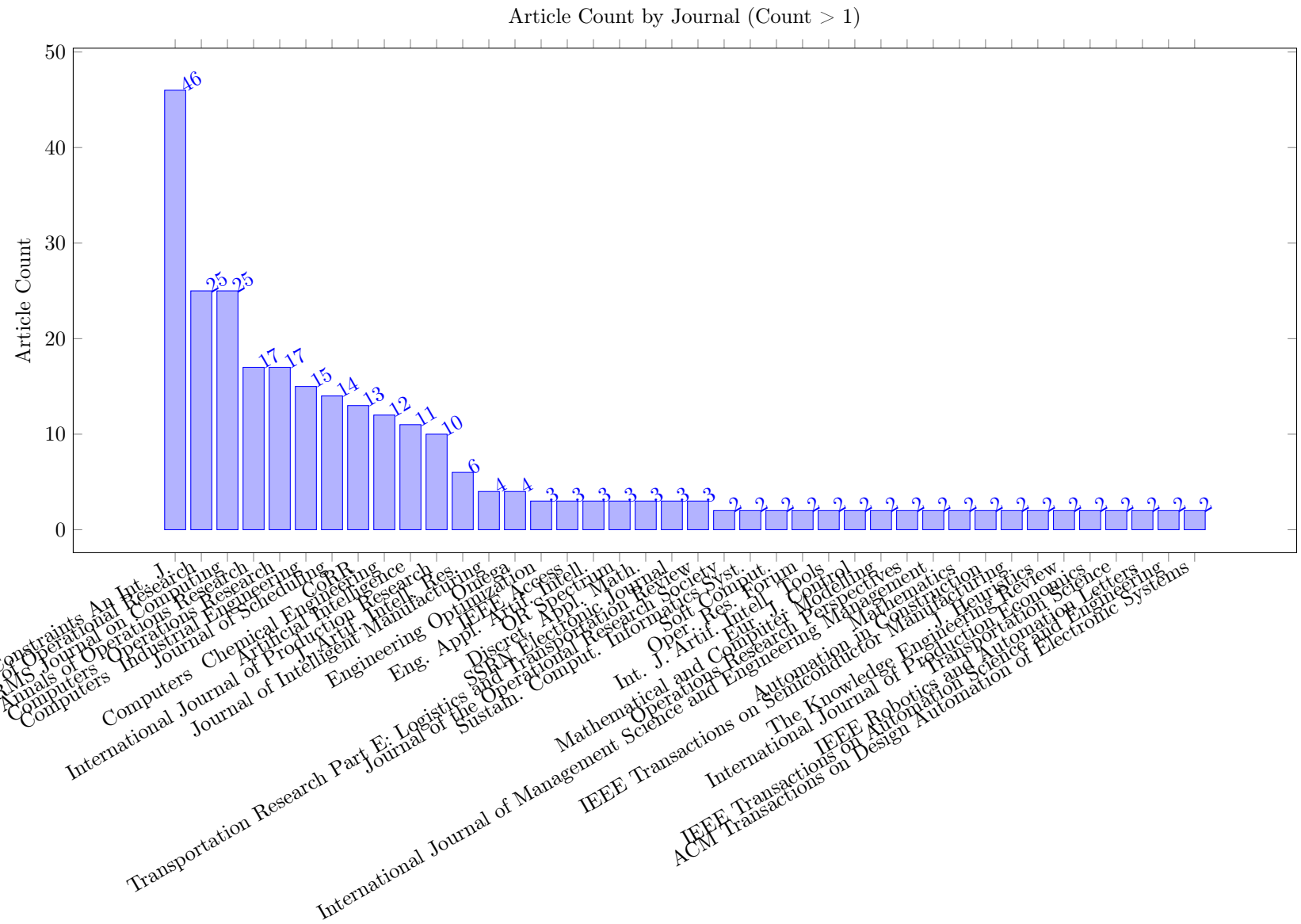
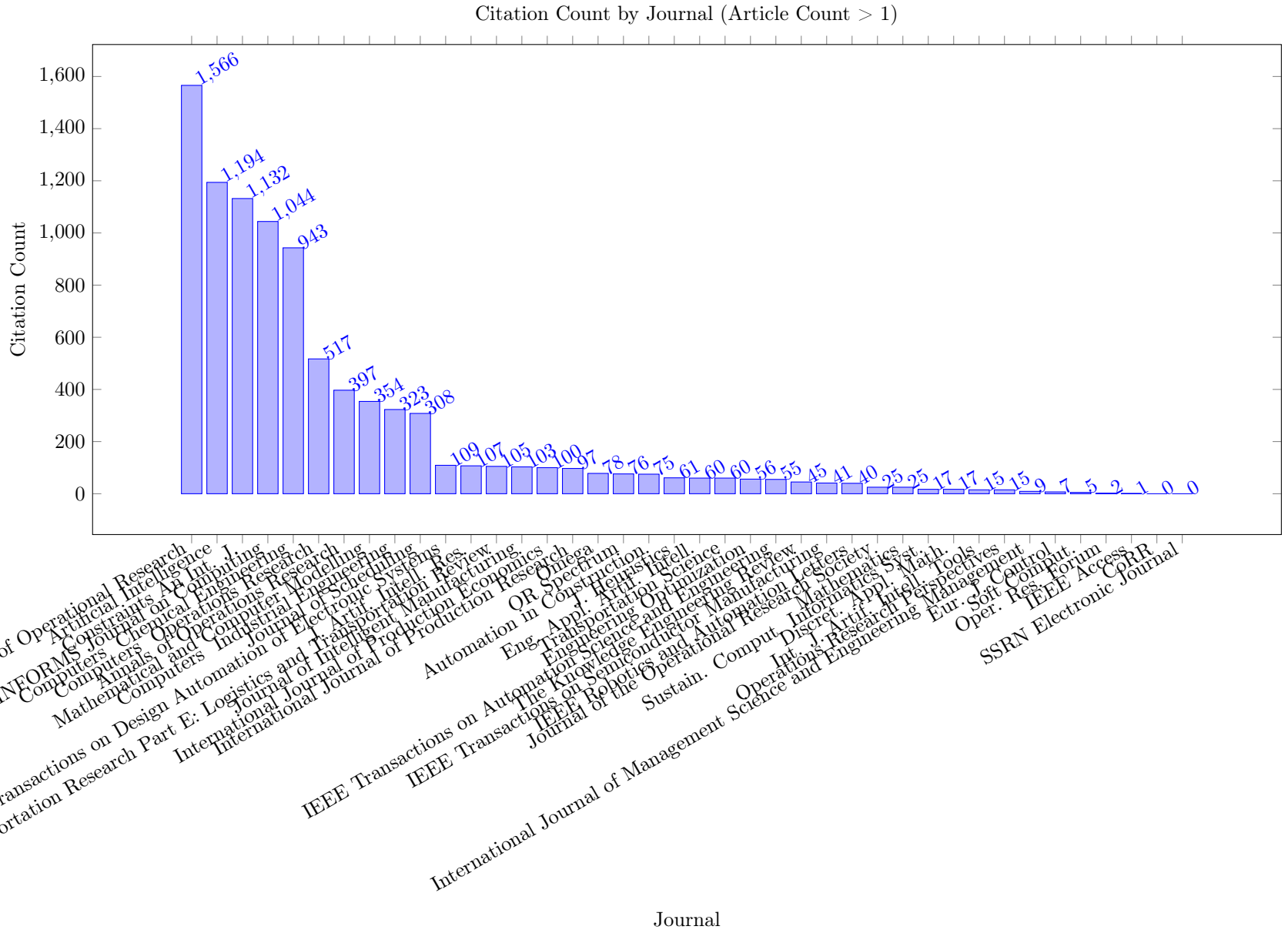
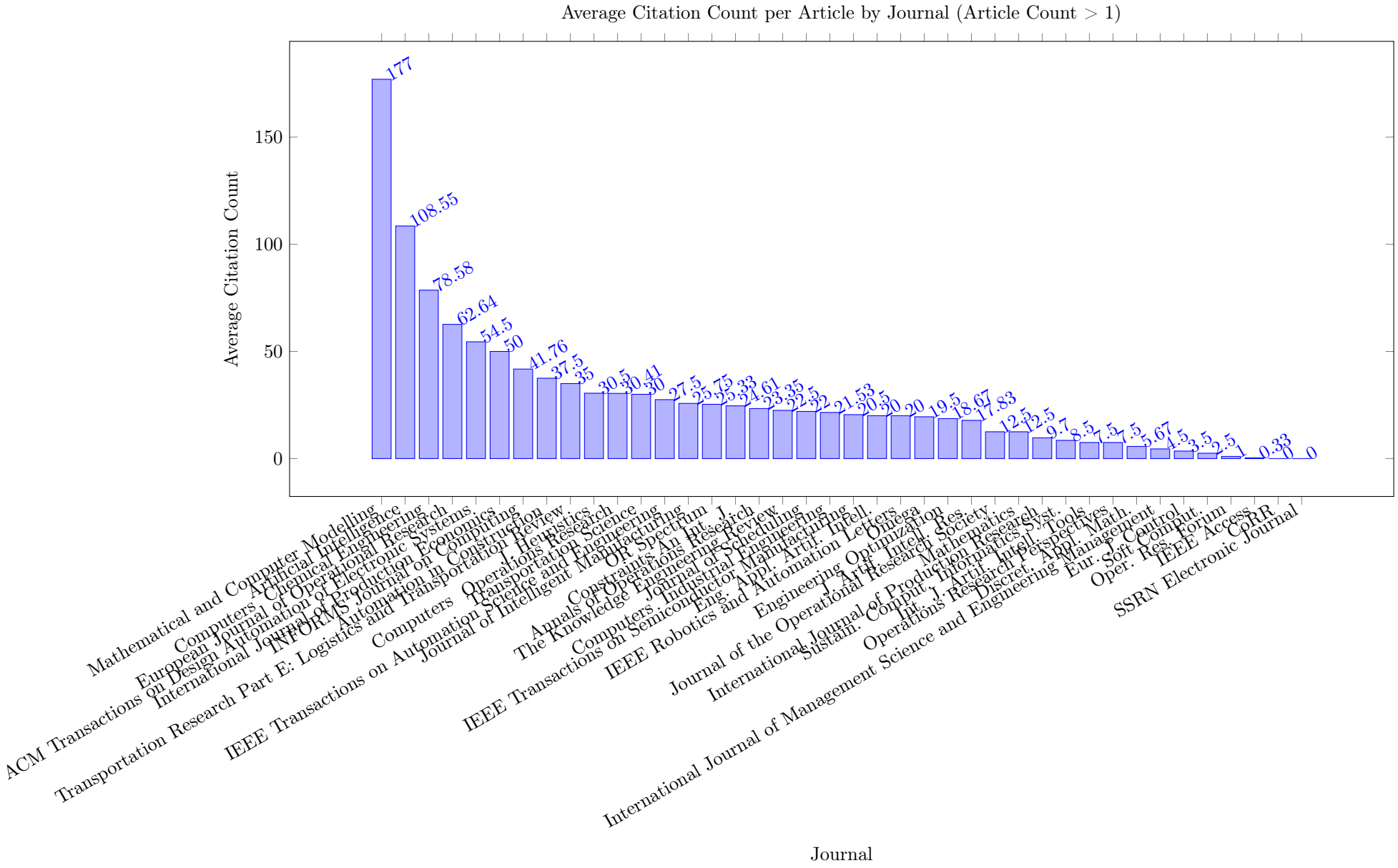
13
12
5
1
1
0
0
0
0
0
0
CP
CPAIOR
ICRA
ICAPS
INAP
CSCLP
AAAI
GOR
ICTAI
IJCAI
ECAI
ICAART
ICNSC
PACT
ICORES
ICROMA
Conference Series


Average Citation Count per Paper by Conference Series (Paper Count > 1)
Average Citation Count
0
2
4
6
8
10
10.75
8.75
7.42
3.75
3.25
2.5
1.72
0.33
0.24
0.17
0
0
0
0
0
0
ICRA
CP
CPAIOR
INAP
CSCLP
GOR
ICAPS
ICTAI
AAAI
IJCAI
ECAI
ICAART
ICNSC
PACT
ICORES
ICROMA
Conference Series

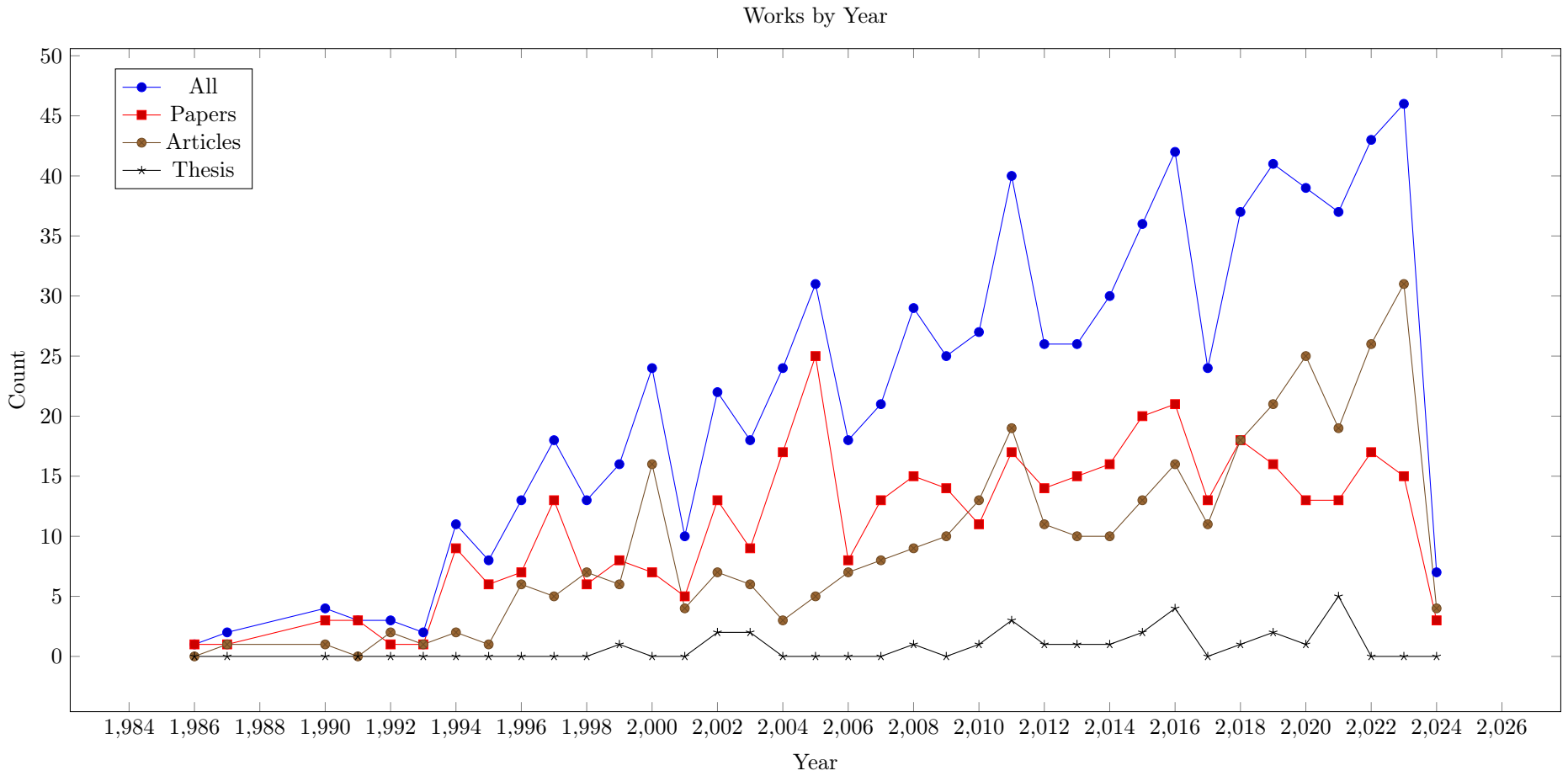
5 Journal Articles by Most Common Journals

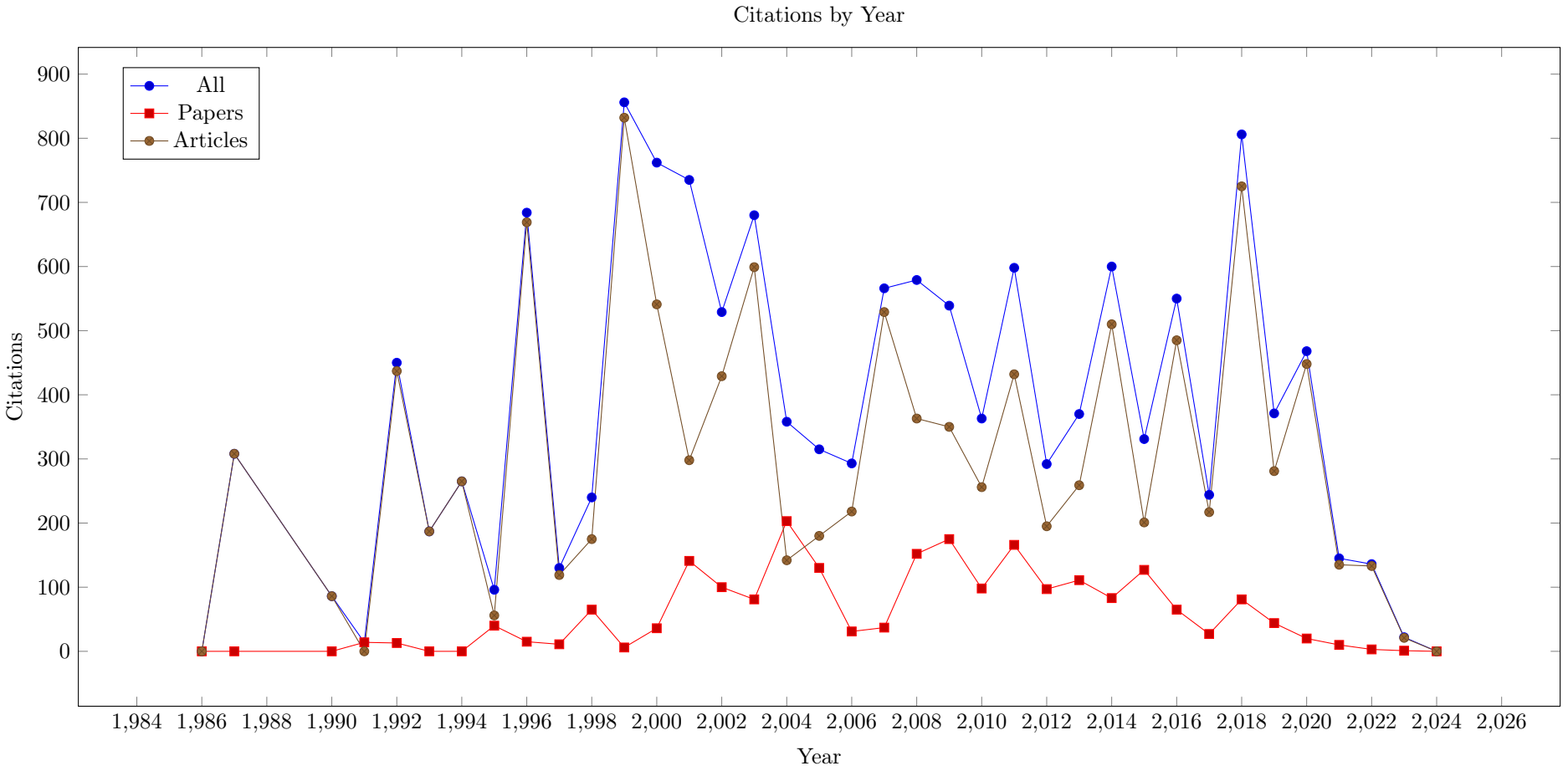


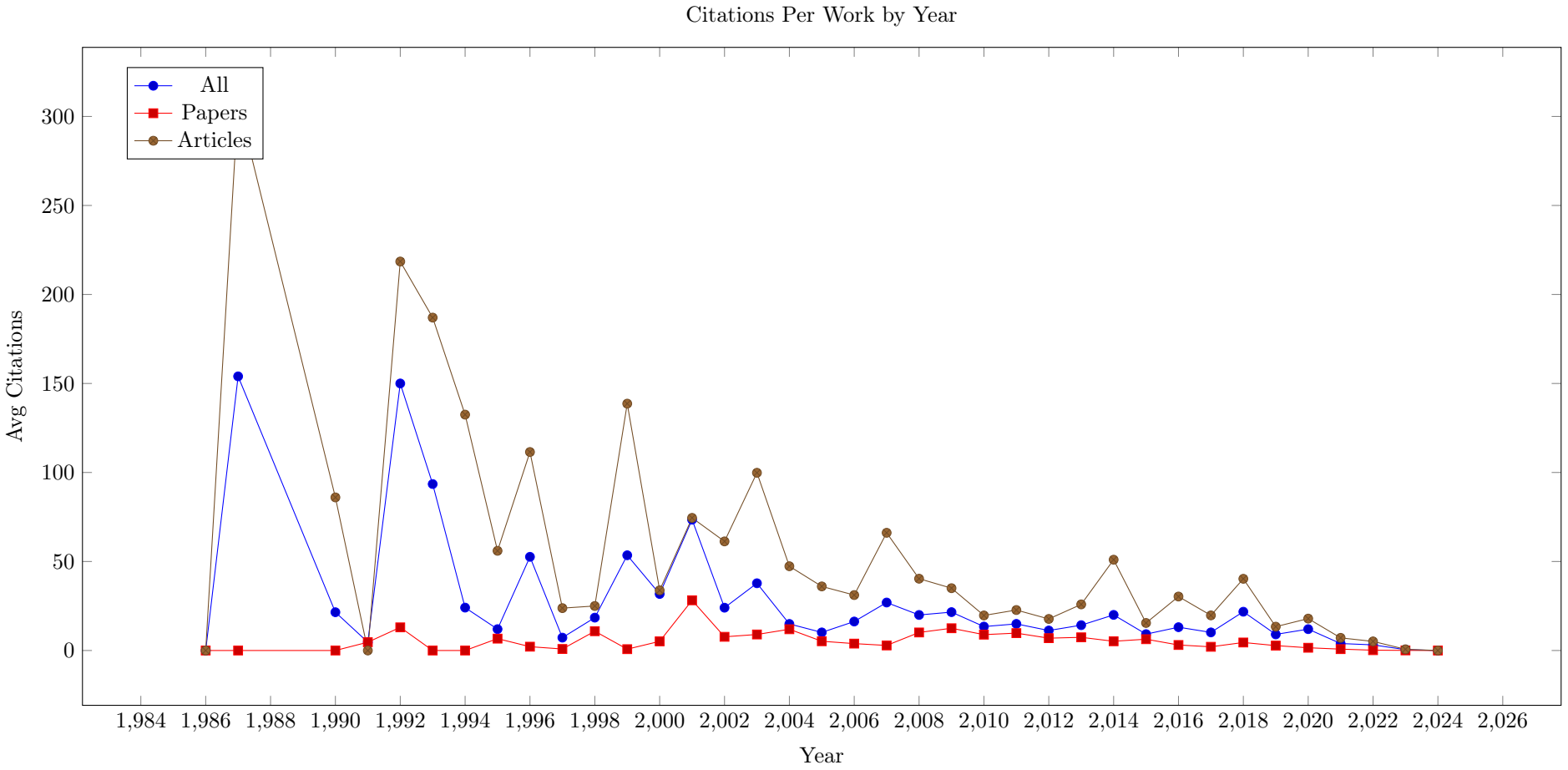

Citation Count by Journal (Article Count > 1)
Citation Count
1,600
1,400
1,200
1,000
800
600
400
200
0
1,566
1,194
1,132
1,044
943
517
397
354
323
308
109
107
105
103
100
97
78
76
75
61
60
60
56
55
45
41
40
25
25
17
17
15
15
9
7
5
2
1
0
0
European Journal of Operational Research
Artificial Intelligence
Constraints An Int. J.
INFORMS Journal on Computing
Computers & Chemical Engineering
Annals of Operations Research
Mathematical and Computer Modelling
Computers & Industrial Engineering
Journal of Scheduling
ACM Transactions on Design Automation of Electronic Systems
Transportation Research Part E: Logistics and Transportation Review
Journal of Intelligent Manufacturing
International Journal of Production Economics
International Journal of Production Research
Omega
OR Spectrum
Automation in Construction
J. Heuristics
Eng. Appl. Artif. Intell.
Transportation Science
Engineering Optimization
IEEE Transactions on Automation Science and Engineering
The Knowledge Engineering Review
IEEE Transactions on Semiconductor Manufacturing
IEEE Robotics and Automation Letters
Journal of the Operational Research Society
Sustain. Comput. Informatics Syst.
Int. J. Artif. Intell. Tools
Discret. Appl. Math.
Operations Research Perspectives
International Journal of Management Science and Engineering Management
Eur. J. Control
Soft Comput.
Oper. Res. Forum
IEEE Access
SSRN Electronic Journal
CoRR
Journal


Average Citation Count per Article by Journal (Article Count > 1)
Average Citation Count
0
50
100
150
177
108.55
78.58
62.64
54.5
50
41.76
37.5
35
30.5
30.41
30
27.5
25.75
25.5
25.33
24.61
23.35
22.5
22
21.53
20.5
20
20
19.5
18.67
17.83
12.5
12.5
9.7
8.5
7.5
7.5
5.67
4.5
3.5
2.5
1
0.33
0
0
Mathematical and Computer Modelling
Artificial Intelligence
Computers
Chemical Engineering
European Journal of Operational Research
ACM Transactions on Design Automation of Electronic Systems
International Journal of Production Economics
Transportation Research Part E: Logistics and Transportation Review
INFORMS Journal on Computing
Automation in Construction
IEEE Transactions on Automation Science and Engineering
Computers & Operations Research
Transportation Science
Journal of Intelligent Manufacturing
OR Spectrum
Int. J. Heuristics
Constraints
Annals of Operations Research
The Knowledge Engineering Review
IEEE Transactions on Semiconductor Manufacturing
Journal of Scheduling
Computers & Industrial Engineering
IEEE Robotics and Automation Letters
Eng. Appl. Artif. Intell.
Omega
J. Artif. Intell. Res.
Engineering Optimization
Journal of the Operational Research Society
International Journal of Production Research
Sustain. Comput. Inform. Syst.
Int. J. Artif. Intell. Tools
Discret. Appl. Math.
Operations Research Perspectives
Eur. J. Control
Oper. Res. Forum
IEEE Access
SSRN Electronic Journal
Journal

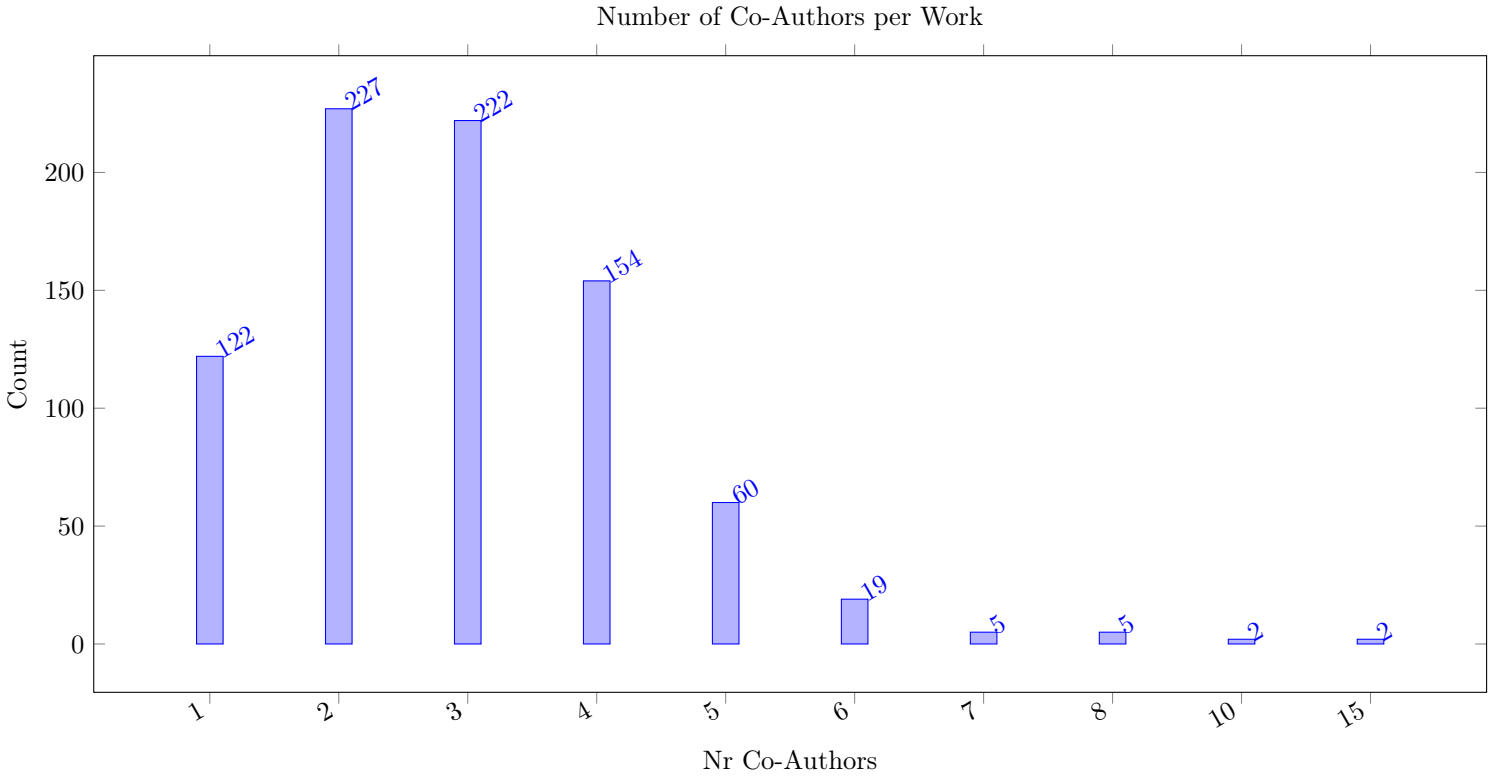
6 Works by Year



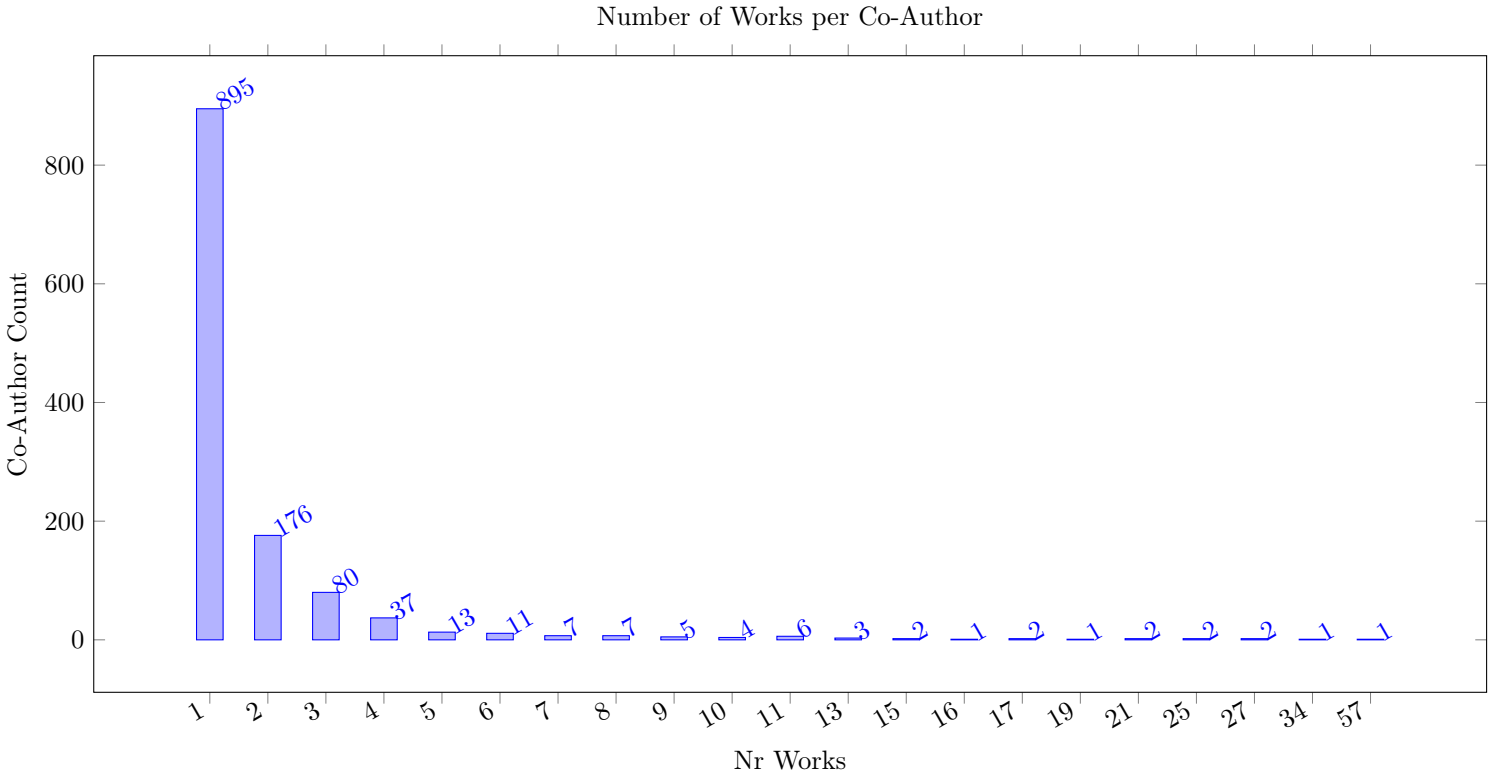

Citations by Year
All
Papers
Articles
Citations
900
800
700
600
500
400
300
200
100
0
1,984
1,986
1,988
1,990
1,992
1,994
1,996
1,998
2,000
2,002
2,004
2,006
2,008
2,010
2,012
2,014
2,016
2,018
2,020
2,022
2,024
2,026
Year


Citations Per Work by Year
All
Papers
Articles
Avg Citations
300
250
200
150
100
50
0
1,984
1,986
1,988
1,990
1,992
1,994
1,996
1,998
2,000
2,002
2,004
2,006
2,008
2,010
2,012
2,014
2,016
2,018
2,020
2,022
2,024
2,026
Year

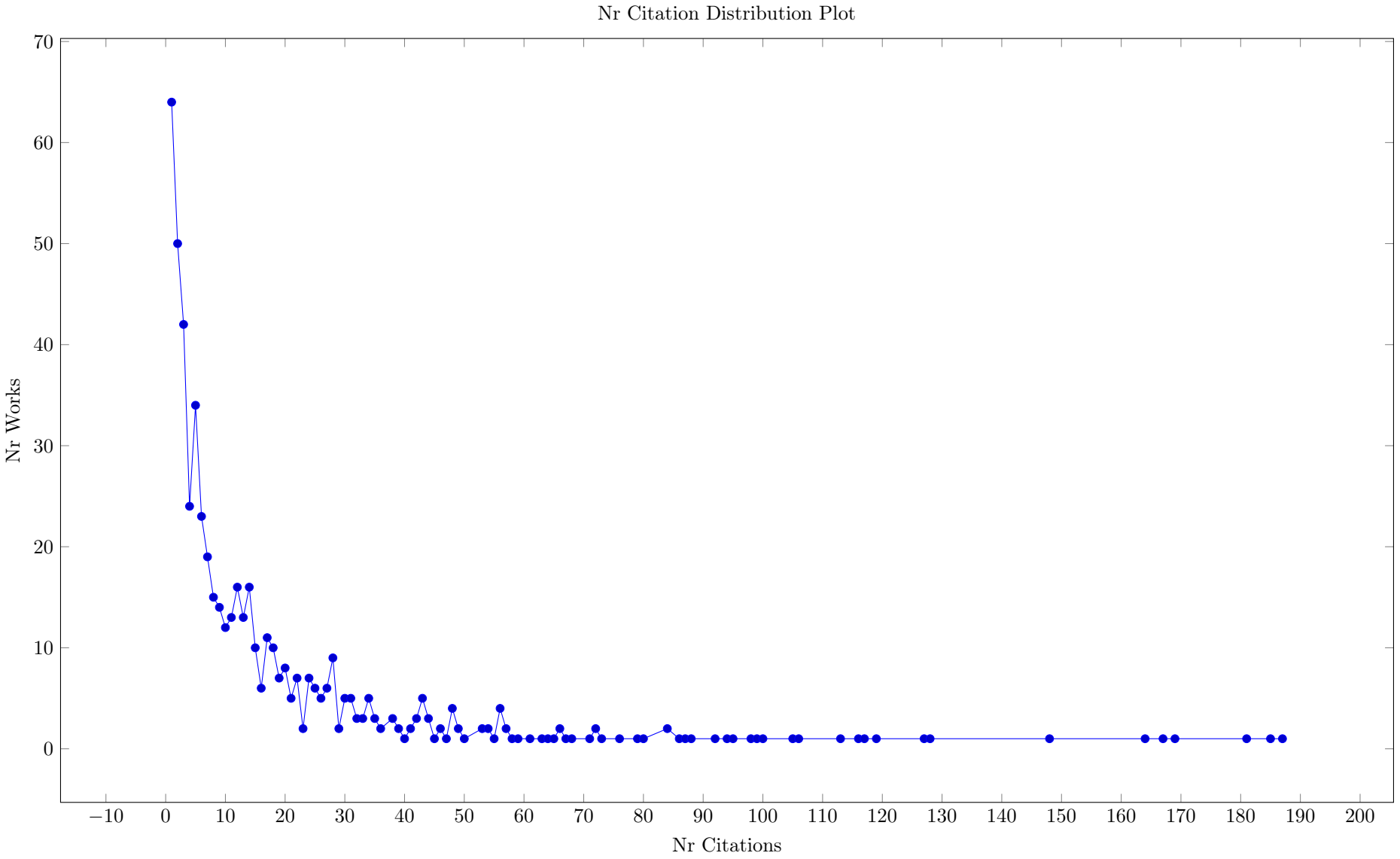
7 Number of Coauthors per Work



8 Number of Works per Author



9 Citation Distribution



10 Similarity Measures

The following distribution plot shows the similarity values between two works based on citations and references counts. If either work does not have citation and reference values, then the similarity is set to NaN. The total similarity count is the sum of the similarity for citations and for references. As value we compute the ratio of shared references (citations) to the sum of individual references (citations), multiplied by two. So both the citation and reference similarity range between zero and one, and the sum ranges between zero and two. High values are exceedingly rare, as they require both works to be citing the same papers, and being cited by the same papers.A larger values indicates that items are more similar according to this measure. In the plot we group values into 0.1 wide value bins, so an entry for 0.2 includes values from 0.15 to 0.25.

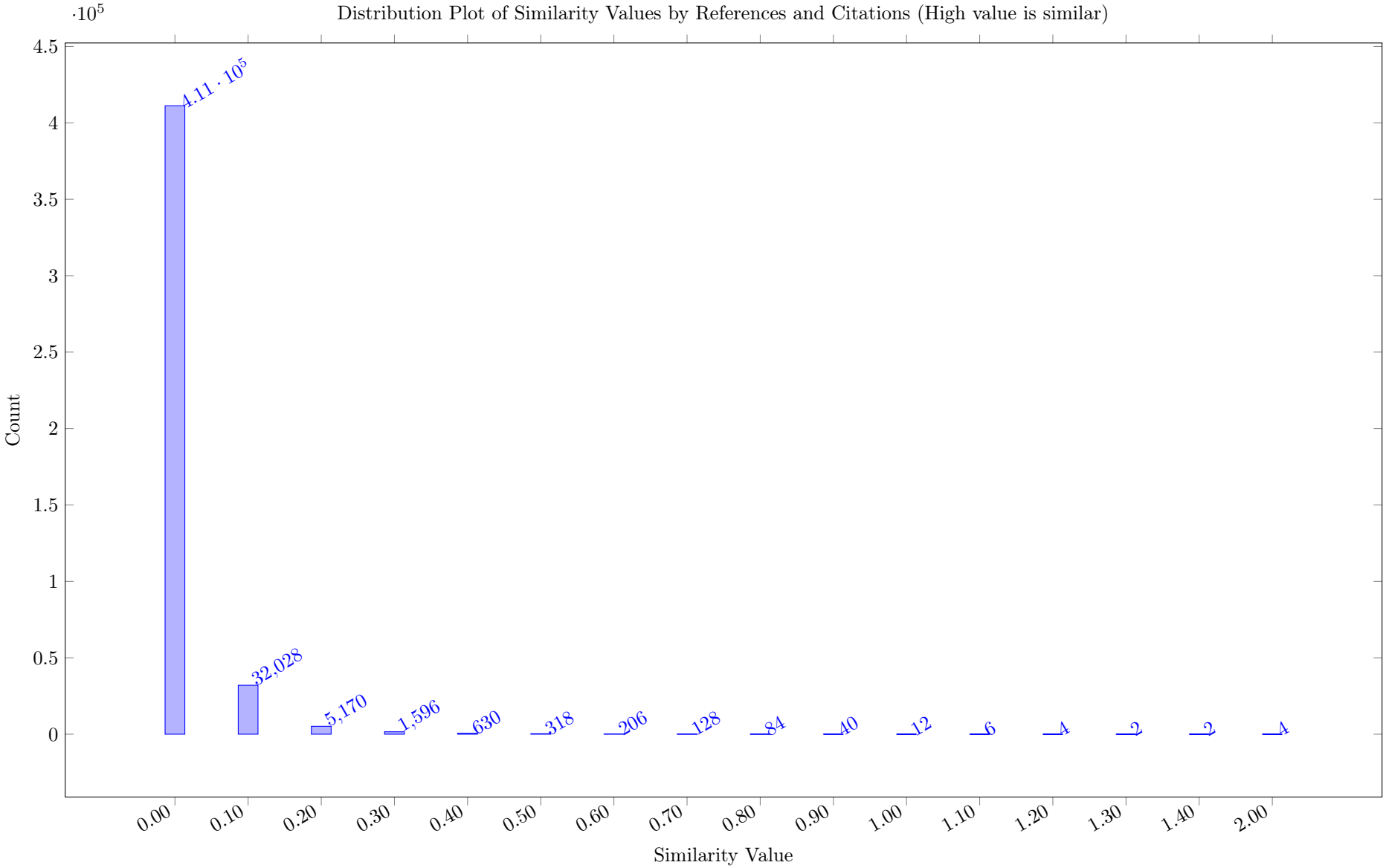
We observe that high values of this similarity are often found for two works by the same authors that are close in time, where we assumes that the bibliography is based on the same literature survey.

Table 4: Similarity Measure (*1000) based on References and Citations (high = similar)

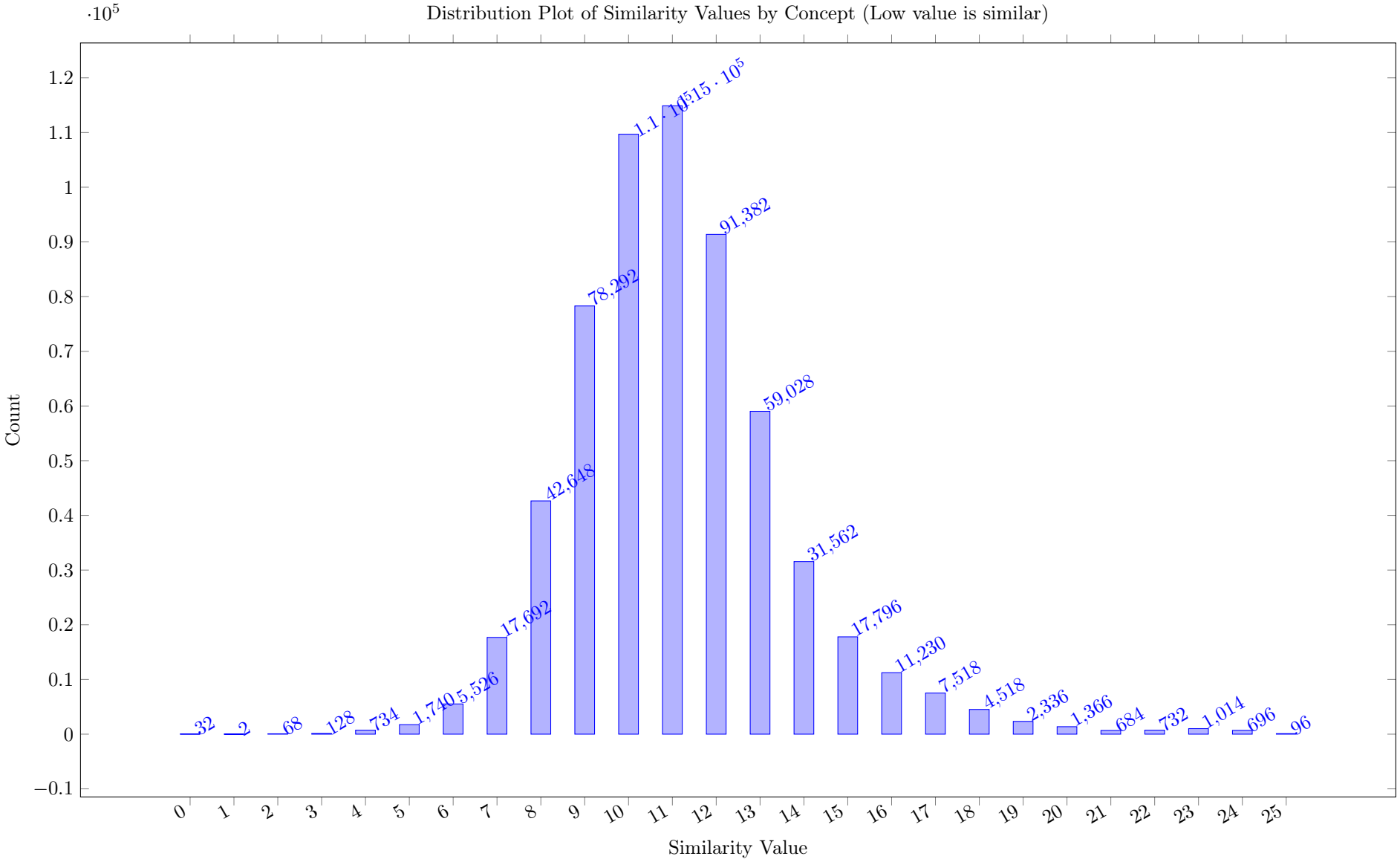
From/To	Total	Hooker05	OuelletQ13	KameugneFSN14	ChuX05	SchuttW10	CireCH16	Beck10	OuelletQ18	SchuttFS13a	CobanH11	CireCH13	Hooker05a	KameugneF13	Hooker07	AronHY2004	KameugneFSN11	Wolf03	HeinzKB13	Hooker06	GayHS15a	LetortCB15	MercierH08	Other
Total		34,713	34,116	33,220	31,683	31,405	31,065	30,417	30,133	29,232	28,550	27,722	27,690	27,468	27,383	26,563	25,933	25,924	25,878	25,787	25,673	25,478	25,425	
Hooker05	34,713	0	80	95	840	80	548	638	74	53	497	468	1,020	133	859	483	100	111	257	776	87	80	125	27,309
OuelletQ13	34,116	80	0	917	74	757	57	80	800	605	39	0	0	778	0	54	627	190	138	0	774	571	333	27,242
KameugneFSN14	33,220	95	917	0	87	732	65	95	872	555	43	0	0	595	0	61	632	118	80	0	455	417	477	26,924
ChuX05	31,683	840	74	87	0	74	483	521	69	50	508	639	702	118	593	347	91	100	214	712	80	74	111	25,196
SchuttW10	31,405	80	757	732	74	0	57	80	611	596	39	0	0	754	0	54	735	179	69	0	231	286	566	25,505
CireCH16	31,065	548	57	65	483	57	0	551	54	42	897	838	452	80	632	227	67	71	417	529	61	57	77	24,803
Beck10	30,417	638	80	95	521	80	551	0	74	53	576	476	503	133	387	351	100	111	154	491	87	80	125	24,751
OuelletQ18	30,133	74	800	872	69	611	54	74	0	510	38	0	0	800	0	51	554	174	65	0	500	333	253	24,301
SchuttFS13a	29,232	53	605	555	50	596	42	53	510	0	31	0	0	360	0	40	296	123	190	0	308	293	293	24,834
CobanH11	28,550	497	39	43	508	39	897	576	38	31	0	835	431	49	659	267	43	45	192	743	41	39	48	22,490
CireCH13	27,722	468	0	0	639	0	838	476	0	0	835	0	485	0	688	323	0	0	316	737	0	0	0	21,917
Hooker05a	27,690	1,020	0	0	702	0	452	503	0	0	431	485	0	0	725	494	0	0	160	726	0	0	0	21,992
KameugneF13	27,468	133	778	595	118	754	80	133	800	360	49	0	0	0	0	74	769	182	105	0	125	222	433	21,758
Hooker07	27,383	859	0	0	593	0	632	387	0	0	659	688	725	0	0	326	0	0	198	860	0	0	0	21,456
AronHY2004	26,563	483	54	61	347	54	227	351	51	40	267	323	494	74	326	0	63	67	158	337	57	54	71	22,604
KameugneFSN11	25,933	100	627	632	91	735	67	100	554	296	43	0	0	769	0	63	0	125	83	0	286	261	440	20,661
Wolf03	25,924	111	190	118	100	179	71	111	174	123	45	0	0	182	0	67	125	0	91	0	211	286	167	23,573
HeinzKB13	25,878	257	138	80	214	69	417	154	65	190	192	316	160	105	198	158	83	91	0	143	74	69	100	22,605
Hooker06	25,787	776	0	0	712	0	529	491	0	0	743	737	726	0	860	337	0	0	143	0	0	0	0	19,733
GayHS15a	25,673	87	774	455	80	231	61	87	500	308	41	0	0	125	0	57	286	211	74	0	0	462	118	21,716
LetortCB15	25,478	80	571	417	74	286	57	80	333	293	39	0	0	222	0	54	261	286	69	0	462	0	105	21,789
MercierH08	25,425	125	333	477	111	566	77	125	253	293	48	0	0	433	0	71	440	167	100	0	118	105	0	21,583
Hooker04	25,081	893	39	0	622	38	370	469	0	34	299	313	1,114	0	662	520	0	0	208	649	0	0	28	18,823
Vilim09	24,877	155	604	608	118	860	80	133	429	287	49	0	0	694	0	74	837	237	164	0	125	111	643	18,669
SchuttFSW11	24,323	0	303	367	0	493	0	79	237	646	0	0	46	148	25	0	188	29	30	0	204	216	135	21,177
CobanH10	24,265	378	0	0	364	0	617	471	0	0	478	667	572	0	431	268	0	0	167	669	0	0	0	19,183
GrimesH15	24,018	38	36	78	37	36	32	38	35	29	26	0	0	89	10	31	80	208	36	0	38	73	87	22,981
LetortBC12	23,838	0	851	689	0	541	0	87	381	468	0	0	0	250	0	0	415	105	0	0	507	615	280	18,649
KameugneFGOQ18	23,703	87	538	455	80	374	61	87	714	359	41	0	0	411	0	57	536	105	74	0	667	308	178	18,571
BeldiceanuC02	23,615	100	352	313	91	261	67	100	314	224	43	0	63	308	0	63	311	386	167	0	243	261	327	19,621
Wolf05	23,159	105	273	111	95	182	69	105	167	57	44	0	0	167	0	65	118	800	87	0	200	273	154	20,087
LetortCB13	23,144	95	500	400	87	333	65	95	231	270	43	0	0	286	0	61	516	235	80	0	364	833	133	18,517
SimonisH11	23,085	100	522	316	91	261	67	100	320	167	43	0	0	308	0	63	333	250	167	0	286	348	143	19,200
SchuttFSW15	23,042	51	286	211	49	190	41	51	227	647	31	0	0	125	0	39	162	57	186	0	200	190	61	20,238
Colombani96	22,980	0	105	267	0	0	0	0	95	63	0	0	0	0	0	0	143	467	0	0	118	105	256	21,361
GrimesHM09	22,862	87	77	91	80	77	61	87	71	51	41	0	0	125	10	57	95	211	74	0	83	77	118	21,289
YunesAH10	22,745	290	38	42	262	38	321	386	37	31	394	405	385	48	308	621	43	44	134	384	40	38	47	18,409
SadykovW06	22,658	341	100	125	279	100	148	267	91	61	161	111	258	200	186	171	133	154	95	199	111	100	182	19,085
DorndorfHP99	22,311	0	59	133	0	0	0	0	56	85	0	0	0	0	0	0	69	148	0	0	63	59	160	21,479
Vilim09a	21,928	158	382	286	118	675	80	133	505	307	49	0	47	711	10	74	562	182	105	63	125	111	400	16,845
VilimBC05	21,596	147	105	267	111	105	77	125	95	111	48	0	39	222	10	71	286	229	100	50	118	105	400	18,775
CambazardHDJT04	21,544	492	0	0	438	0	260	327	0	0	373	333	602	0	371	345	0	0	143	462	0	0	0	17,398
Other		23,792	22,072	22,165	22,274	20,941	22,387	21,611	20,296	20,937	20,327	20,088	18,866	17,666	19,433	20,024	15,834	19,726	20,588	17,257	18,224	17,966	17,851	

Table 5: Similarity Measure based on Extracted Concepts (low = similar)

From/To	Total	Petropoulos23	ZarandiASC20	Groleaz21	Dejemeppe16	Baptiste02	Malapert11	Froger16	Siala15a	Lombardi10	Lunardi20	Godet21a	Astrand21	LaborieRSV18	Siala15	NaderiRR23	Schutt11	LacknerMMWW23	Lemos21	Fahimi16	KoehlerBFFHPSSS21	IsikYA23	HartmannB10	HartmannB22	HarjunkoskiMBC14
Total		18,153	16,856	14,976	14,658	14,066	14,013	13,533	13,258	13,195	13,089	13,077	12,714	12,678	12,545	12,357	12,310	12,187	12,088	12,080	12,008	11,994	11,727	11,681	11,659
Petropoulos23	18,153	0	21	23	24	25	25	22	25	22	23	23	21	22	25	23	24	24	20	24	23	23	22	21	21
ZarandiASC20	16,856	21	0	18	20	19	21	22	24	21	18	21	18	21	24	20	22	22	21	21	23	18	18	18	20
Groleaz21	14,976	23	18	0	18	17	19	20	20	17	16	19	16	17	20	15	19	18	20	18	20	17	17	18	18
Dejemeppe16	14,658	24	20	18	0	17	17	21	19	17	17	19	17	18	19	19	16	18	20	16	19	17	16	17	19
Baptiste02	14,066	25	19	17	17	0	17	22	20	16	19	17	16	18	19	17	16	20	21	15	20	18	16	17	19
Malapert11	14,013	25	21	19	17	17	0	21	18	19	18	17	17	18	18	18	15	20	20	14	19	18	18	19	18
Froger16	13,533	22	22	20	21	22	21	0	22	19	18	20	18	20	21	20	20	19	17	20	20	18	19	17	17
Siala15a	13,258	25	24	20	19	20	18	22	0	19	19	17	19	19	5	19	17	19	19	17	18	19	19	20	19
Lombardi10	13,195	22	21	17	17	16	19	19	19	0	19	17	16	17	19	18	14	19	19	15	19	18	15	15	16
Lunardi20	13,089	23	18	16	17	19	18	18	19	19	0	18	14	17	19	15	19	17	18	18	18	13	17	17	16
Godet21a	13,077	23	21	19	19	17	17	20	17	17	18	0	17	18	17	17	15	18	19	15	17	18	17	18	19
Astrand21	12,714	21	18	16	17	16	17	18	19	16	14	17	0	16	18	17	16	19	17	15	18	15	16	16	15
LaborieRSV18	12,678	22	21	17	18	18	18	20	19	17	17	18	16	0	18	16	18	17	18	16	17	17	17	17	15
Siala15	12,545	25	24	20	19	19	18	21	5	19	19	17	18	18	0	18	17	19	18	16	17	19	18	20	18
NaderiRR23	12,357	23	20	15	19	17	18	20	19	18	15	17	17	16	18	0	18	16	18	17	17	14	17	17	17
Schutt11	12,310	24	22	19	16	16	15	20	17	14	19	15	16	18	17	18	0	19	19	14	18	18	16	16	18
LacknerMMWW23	12,187	24	22	18	18	20	20	19	19	19	17	18	19	17	19	16	19	0	17	19	16	15	17	18	17
Lemos21	12,088	20	21	20	20	21	20	17	19	19	18	19	17	18	18	18	19	17	0	18	16	17	17	17	16
Fahimi16	12,080	24	21	18	16	15	14	20	17	15	18	15	15	16	16	17	14	19	18	0	18	18	16	17	17
KoehlerBFFHPSSS21	12,008	23	23	20	19	20	19	20	18	19	18	17	18	17	17	17	18	16	16	18	0	17	19	19	17
IsikYA23	11,994	23	18	17	17	18	18	18	19	18	13	18	15	17	19	14	18	15	17	18	17	0	16	15	17
HartmannB10	11,727	22	18	17	16	16	18	19	19	15	17	17	16	17	18	17	16	17	17	16	19	16	0	10	16
HartmannB22	11,681	21	18	18	17	17	19	17	20	15	17	18	16	17	20	17	16	18	17	17	19	15	10	0	16
HarjunkoskiMBC14	11,659	21	20	18	19	19	18	17	19	16	16	19	15	15	18	17	18	17	16	17	17	17	16	16	0
ArmstrongGOS21	11,639	25	22	19	19	19	17	19	19	19	15	18	17	17	19	17	17	16	18	17	16	15	18	17	18
LacknerMMWW21	11,635	25	23	18	18	19	20	19	19	19	17	18	18	17	19	16	19	6	18	18	15	15	17	17	17
PrataAN23	11,493	23	16	16	16	16	17	18	19	16	15	18	14	17	18	14	17	16	18	15	18	13	14	14	15
HookerH17	11,256	22	22	20	18	18	18	18	17	16	19	17	17	17	16	17	16	17	17	15	17	17	17	17	16
ColT22	11,214	23	19	16	17	16	17	19	18	17	13	16	15	15	18	14	17	13	16	16	15	13	16	16	16
MengZRZL20	11,127	23	18	17	19	17	17	19	18	19	13	18	15	16	18	12	18	15	17	17	17	10	16	16	16
Beck99	11,114	22	20	18	17	16	16	18	18	14	17	17	15	16	17	17	14	17	17	14	17	15	15	15	15
GrimesH15	11,093	24	19	16	16	15	15	19	16	17	15	17	15	15	15	12	16	15	18	14	17	13	15	16	15
AbreuNP23	11,021	24	20	18	19	18	18	19	18	18	15	18	16	17	18	13	17	17	17	17	17	13	16	16	16
YunusogluY22	10,932	23	18	17	17	17	17	18	19	17	13	17	15	16	18	14	17	15	16	17	17	11	13	13	15
WinterMMW22	10,813	24	22	19	20	19	20	18	20	19	16	19	17	17	19	14	18	14	16	18	17	15	16	17	16
MilanoW09	10,735	23	22	19	18	18	18	17	18	17	18	17	17	17	17	17	16	17	16	16	17	17	16	16	14
AbreuN22	10,730	23	19	17	17	17	16	17	18	17	14	18	15	17	17	13	16	16	16	16	17	12	15	15	16
AbreuPNF23	10,714	22	18	17	17	17	17	17	18	17	14	17	14	16	18	13	16	16	16	16	17	12	14	14	16
MengLZB21	10,708	24	20	18	19	18	18	19	19	19	14	19	15	16	18	13	18	15	17	17	17	11	16	16	16
LombardiM12	10,676	22	19	16	16	15	18	17	17	13	17	16	14	14	17	14	14	17	17	14	17	16	12	12	14
MejiaY20	10,673	24	19	18	18	17	17	18	18	18	14	18	16	18	17	14	17	16	17	17	17	13	15	15	16
Caballero19	10,633	23	22	19	18	17	18	19	16	16	18	14	17	17	16	17	12	17	17	15	17	17	15	15	17
Nattaf16	10,575	24	22	18	19	17	17	18	17	17	17	17	17	17	16	16	16	17	17	16	17	15	15	16	17
BlazewiczDP96	10,565	23	19	16	17	15	16	18	18	16	15	16	14	17	17	16	15	16	17	14	15	14	13	15	15
Zahout21	10,530	22	20	18	18	18	18	18	19	16	16	16	16	17	18	15	17	16	15	17	17	15	15	14	16
ChuZ22	10,524	22	22	20	21	21	20	18	19	18	17	19	17	17	18	16	19	17	15	18	16	17	17	17	15
Kameugne14	10,521	25	23	20	19	17	16	19	17	17	19	17	17	17	16	17	14	18	17	13	18	18	16	17	18
BartakSR10	10,458	23	20	17	16	14	15	19	17	15	15	15	15	16	17	15	14	17	18	13	16	15	14	15	15
MullerMKP22	10,453	22	20	18	19	19	18	18	18	18	15	16	16	16	17	16	17	15	16	16	14	15	16	17	15
JuvinHHL23	10,438	25	22	18	18	16	16	19	16	17	16	15	17	16	15	14	15	17	17	14	16	16	16	17	17
AwadMDMT22	10,411	23	19	16	16	16	16	18	18	16	14	17	15	15	17	14	15	15	17	14	17	14	12	14	14


Distribution Plot of Similarity Values by References and Citations (High value is similar)
$\cdot 10^5$
Count
Similarity Value
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
$4.11 \cdot 10^5$
32,028
5,170
1,596
630
318
206
128
84
40
12
6
4
2
2
4
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
1.00
1.10
1.20
1.30
1.40
2.00

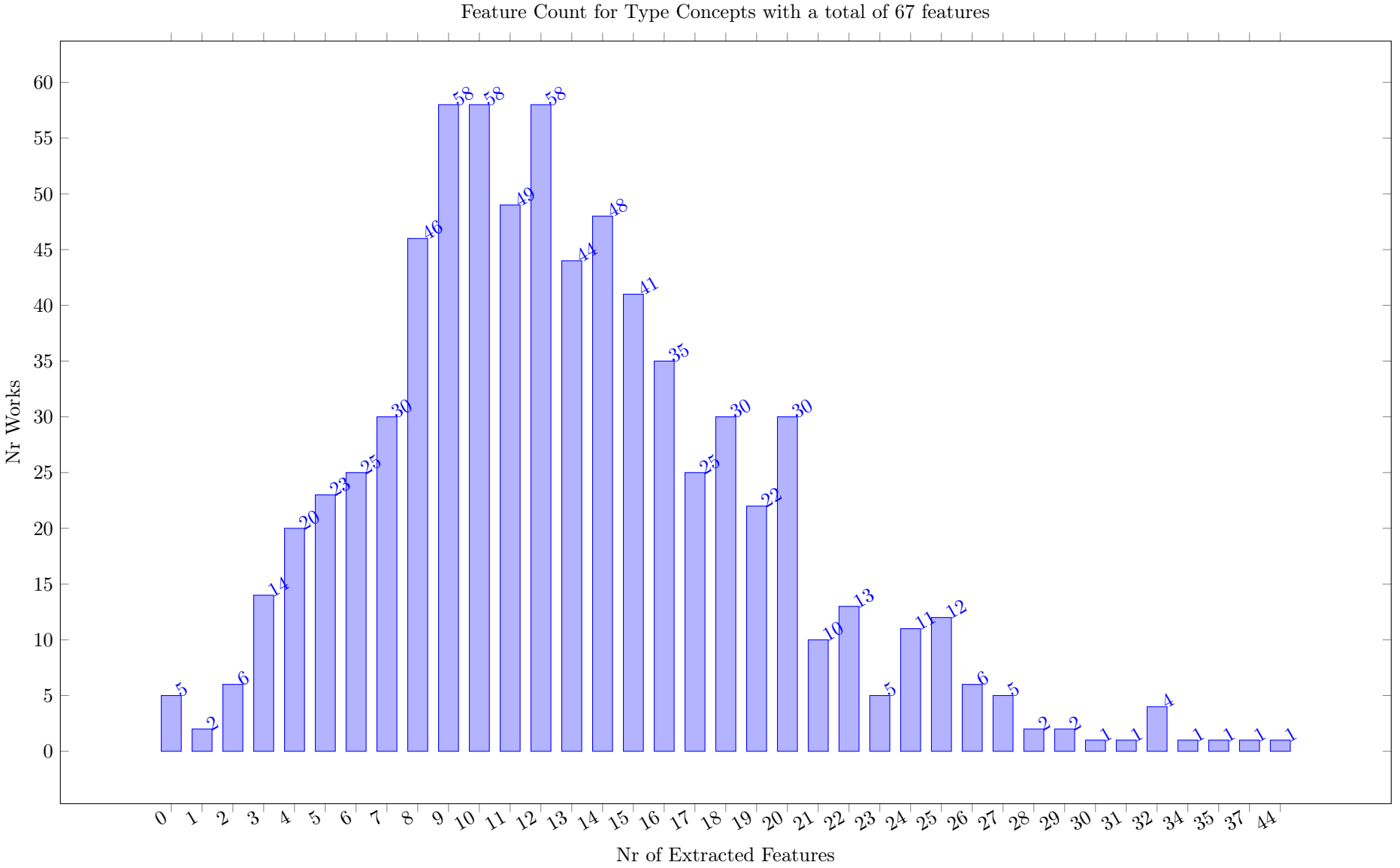
The similarity by concept uses the Euclidean distance between the feature vectors for two works. We translate the MatchLevel for each Concept into a linear scale, and then calculate the distances as the square root of the sum of squared differences for each feature. The distribution plot below rounds the distances to integer values. Similarity values of this type are only calculated when both works have a local copy, from which we extract the features. If either work does not have a local copy, the similarity is set to be NaN.

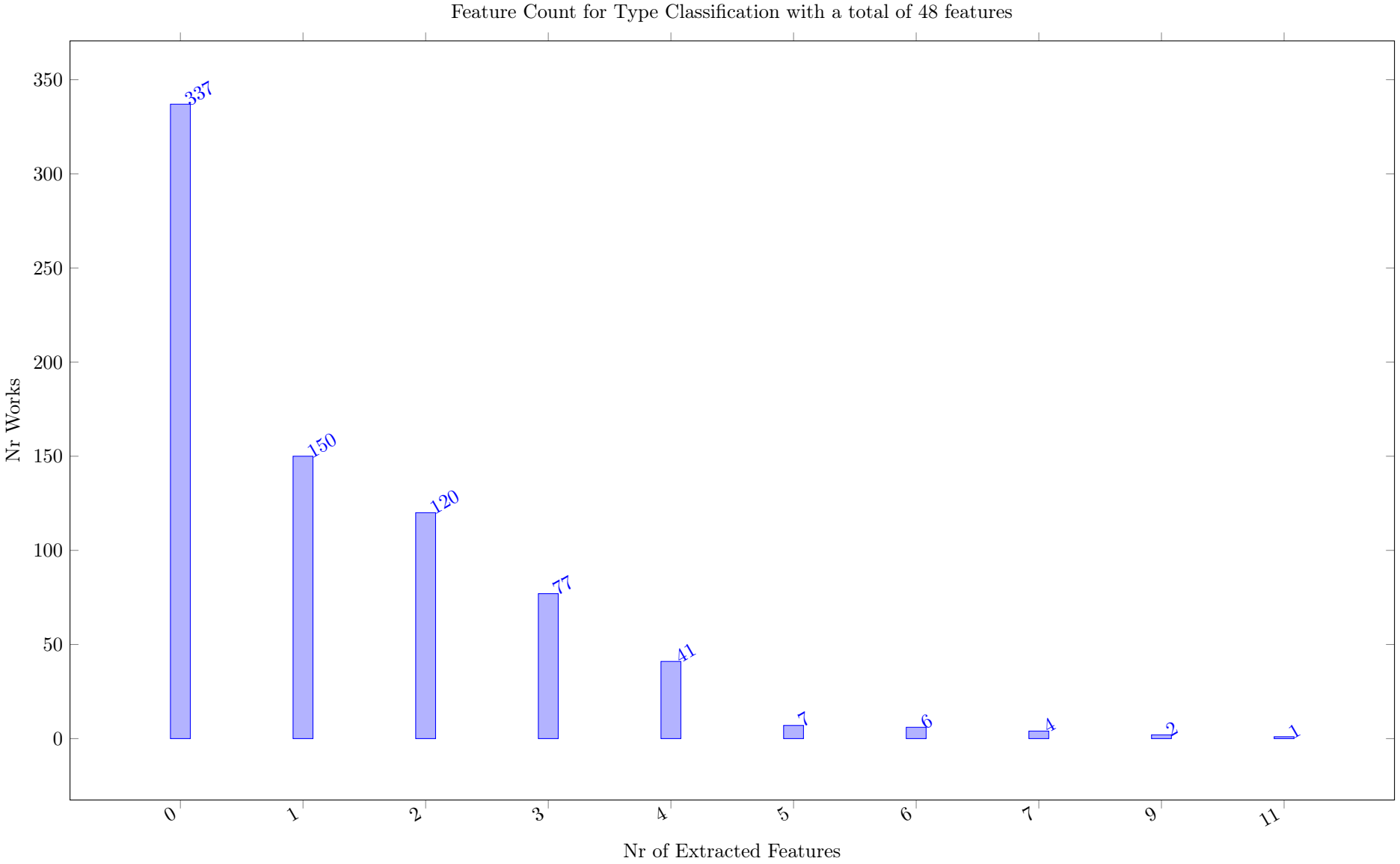

Distribution Plot of Similarity Values by Concept (Low value is similar)
$\cdot 10^5$
Count
Similarity Value
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
32
2
68
128
734
1,740
5,526
17,692
42,648
78,292
91,382
59,028
31,562
17,796
11,230
7,518
4,518
2,336
1,366
684
732
1,014
696
96

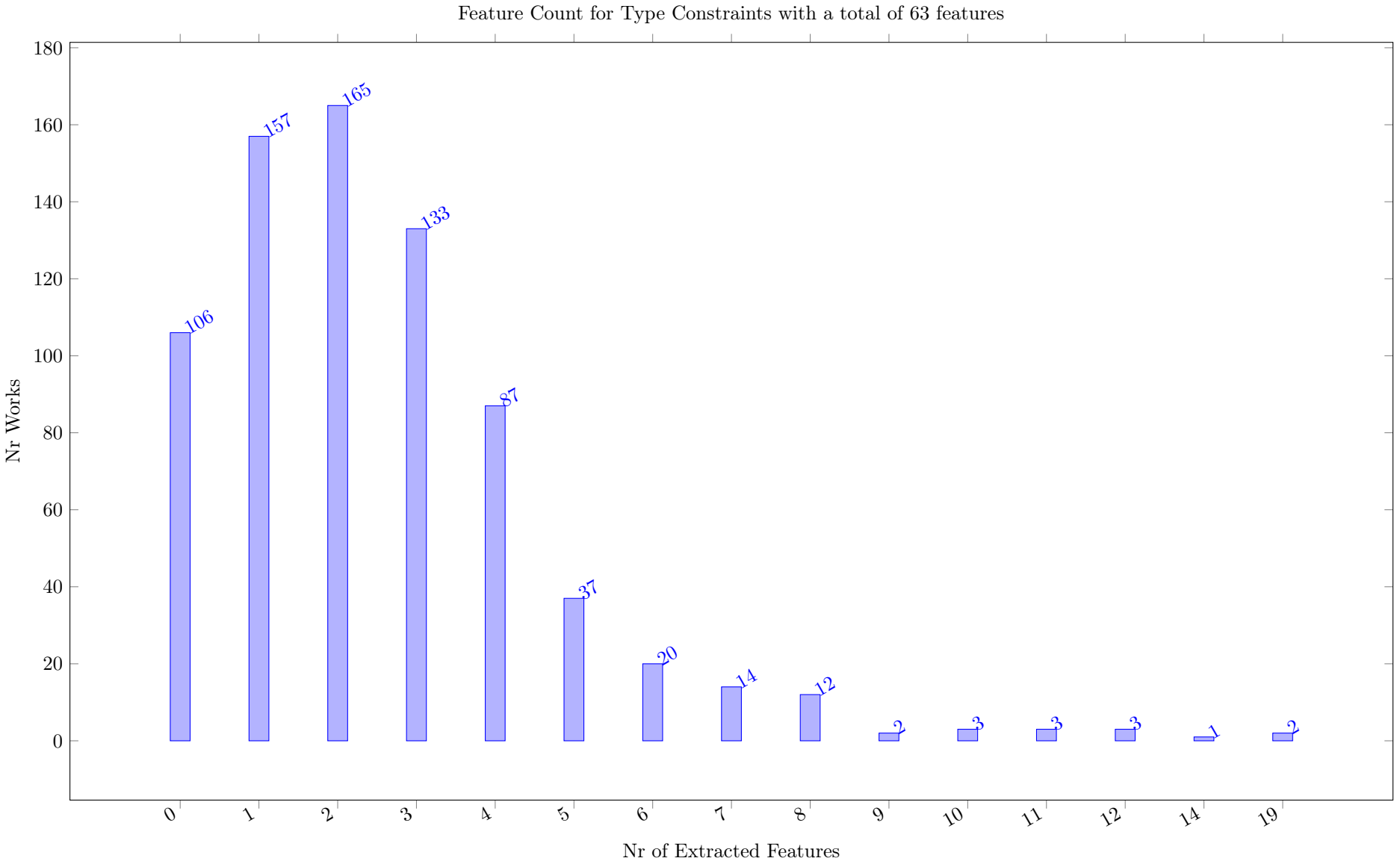
11 Concept Distribution

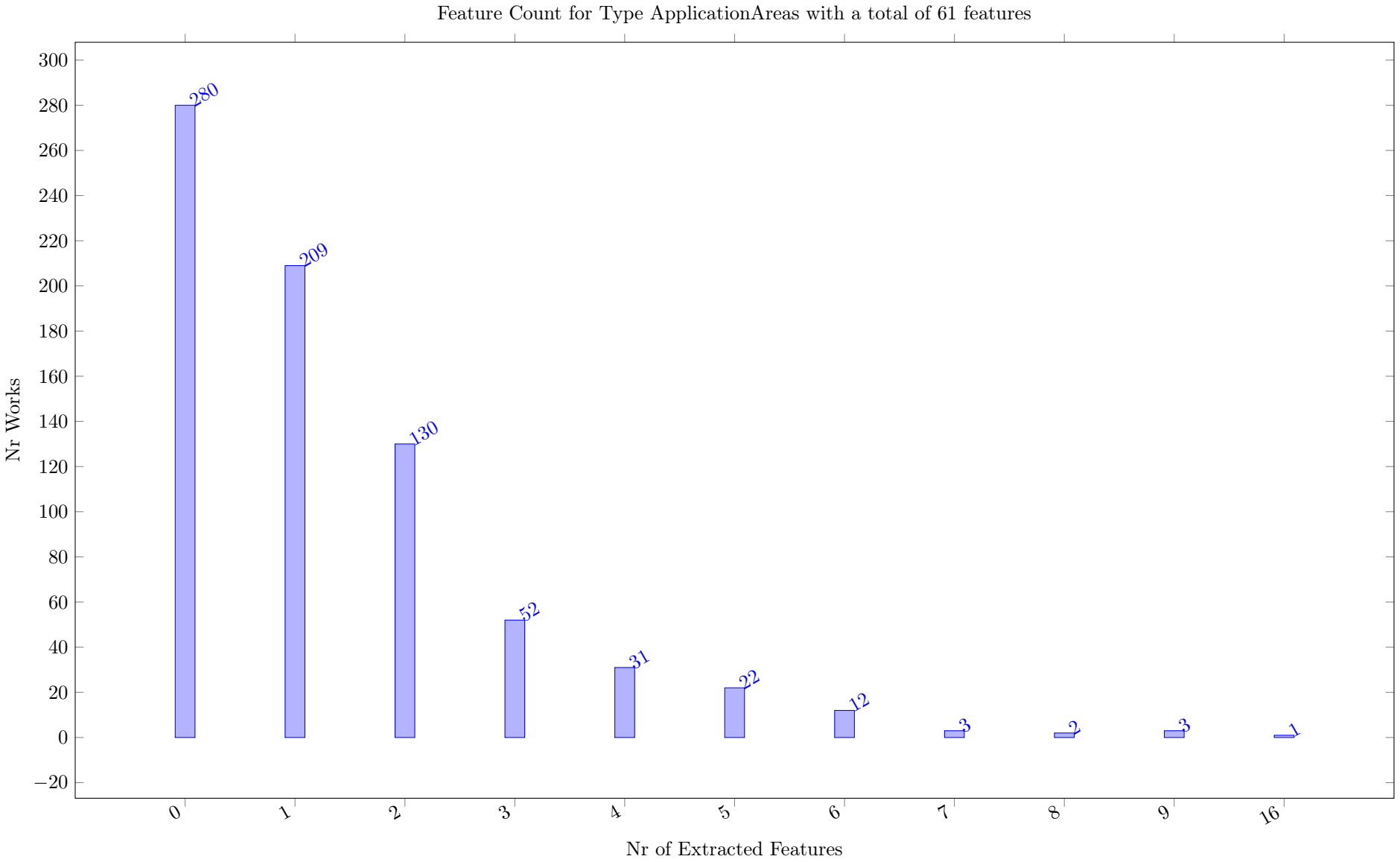
For each concept type, we count how many features are extracted by the individual works that do have a local copy, e.g. for which we can extract features. We can compare the number of features extracted to the number of concepts of a given type, which is stated in the title of the diagram.

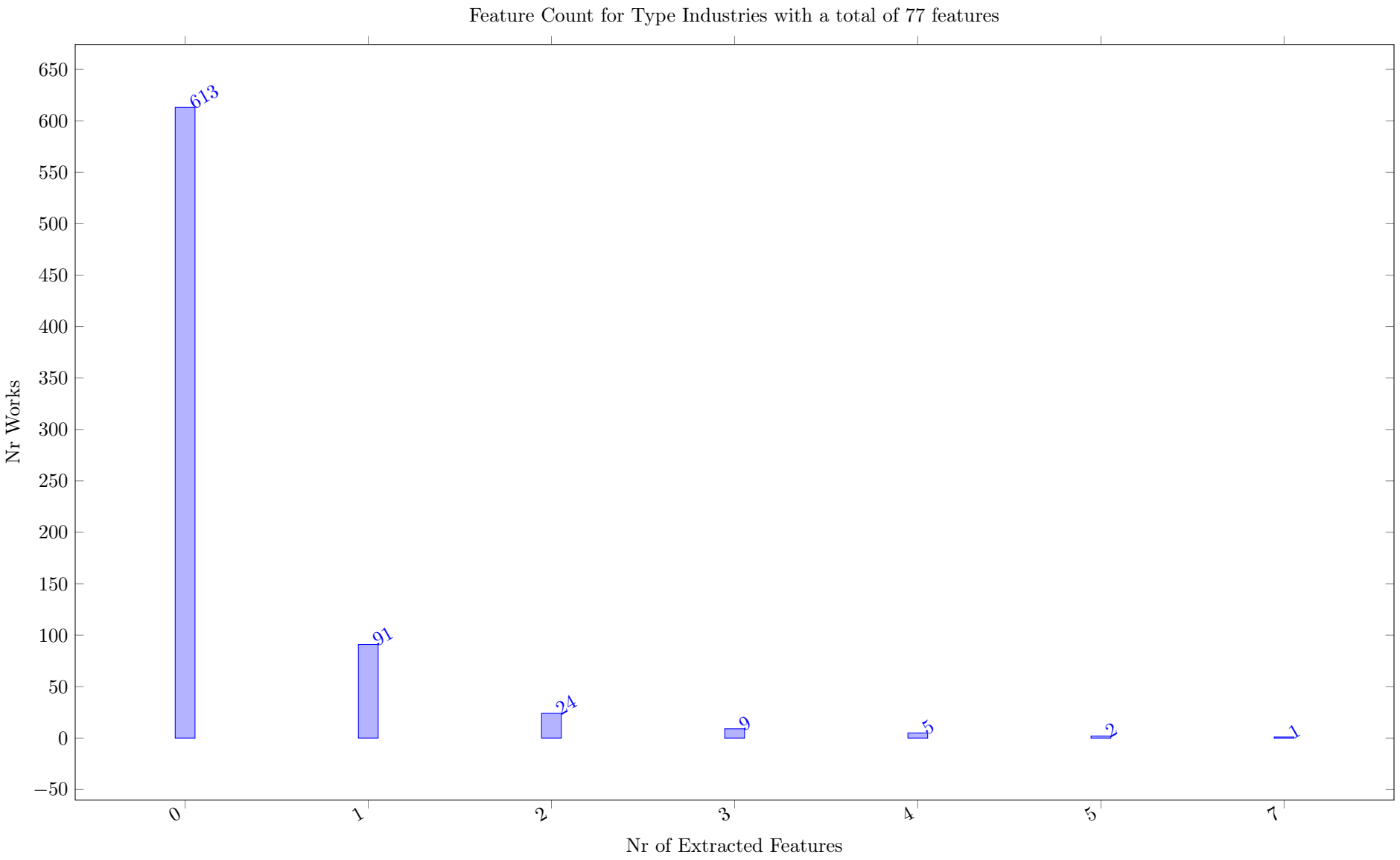
A high count indicates that a work covers many of the concepts of the given type, a low count might mean that our ontology does not have relevant concepts for that work.

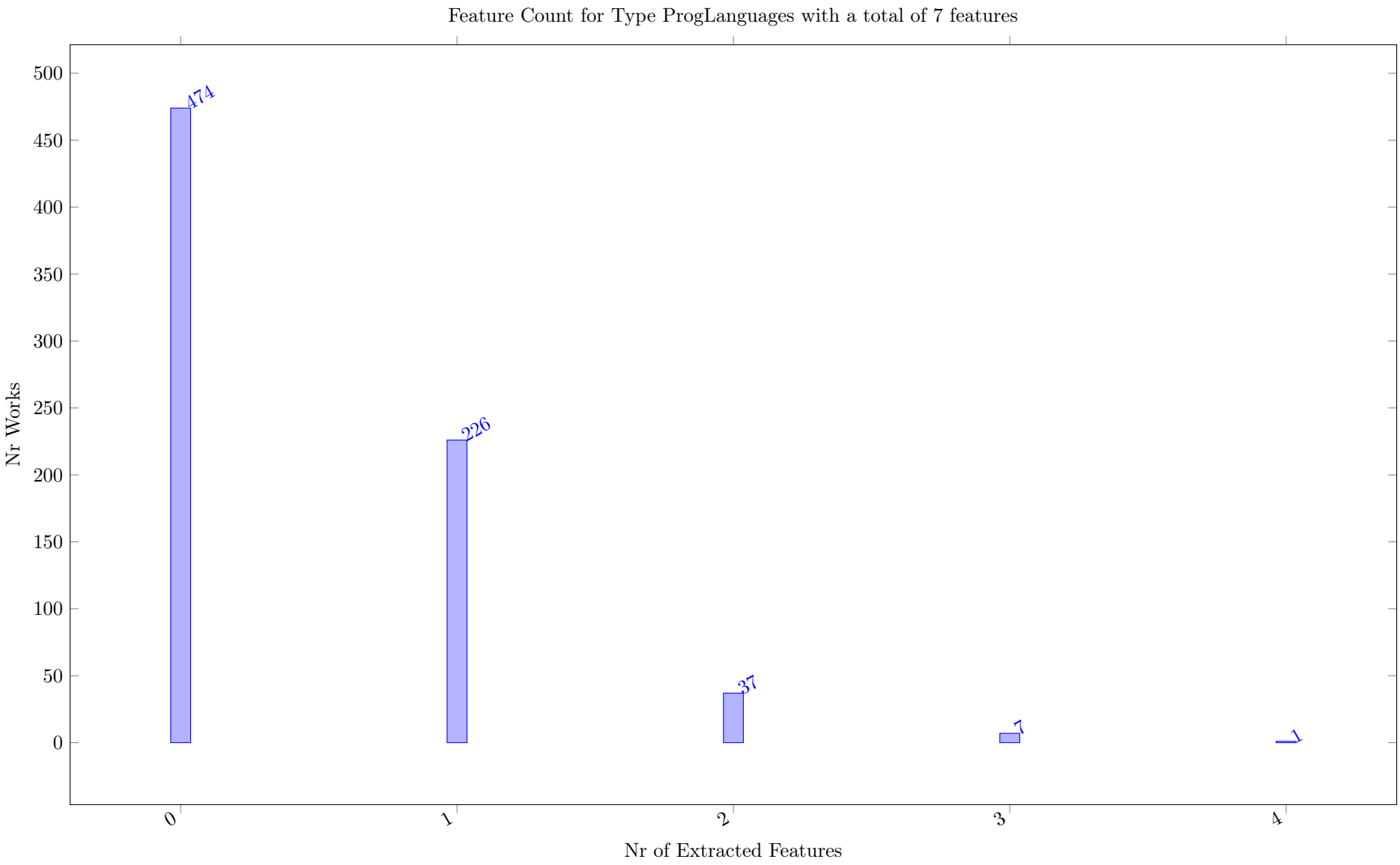

Feature Count for Type Concepts with a total of 67 features
Nr Works
Nr of Extracted Features
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 34 35 37 44
5 2 6 14 20 23 25 30 46 58 58 58 49 44 48 41 35 25 30 22 30 10 13 5 11 12 6 5 2 2 1 1 4 1 1 1 1

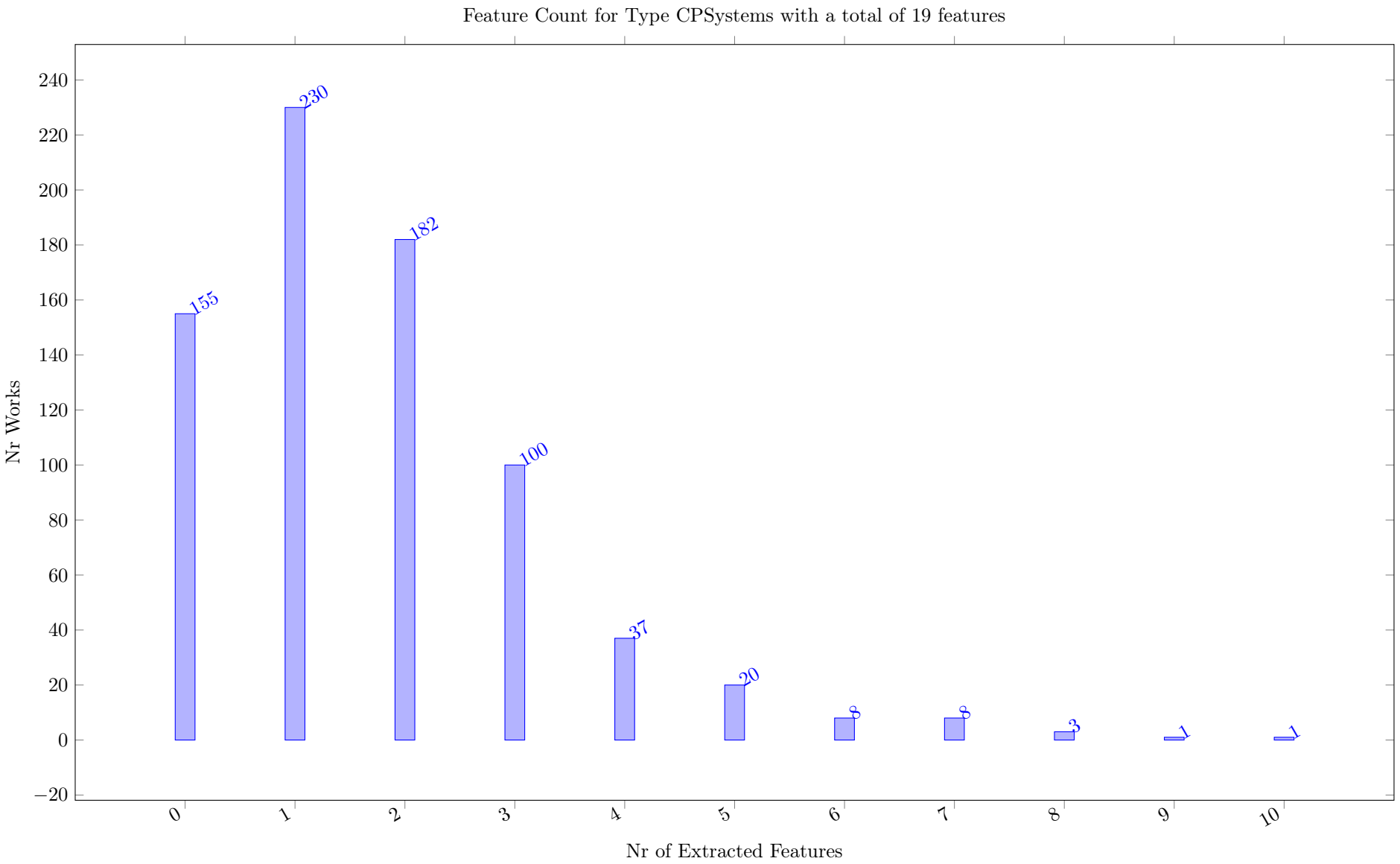

Feature Count for Type Classification with a total of 48 features
Nr Works
Nr of Extracted Features
0
50
100
150
200
250
300
350
0
1
2
3
4
5
6
7
9
11
337
150
120
77
41
7
6
4
2
1

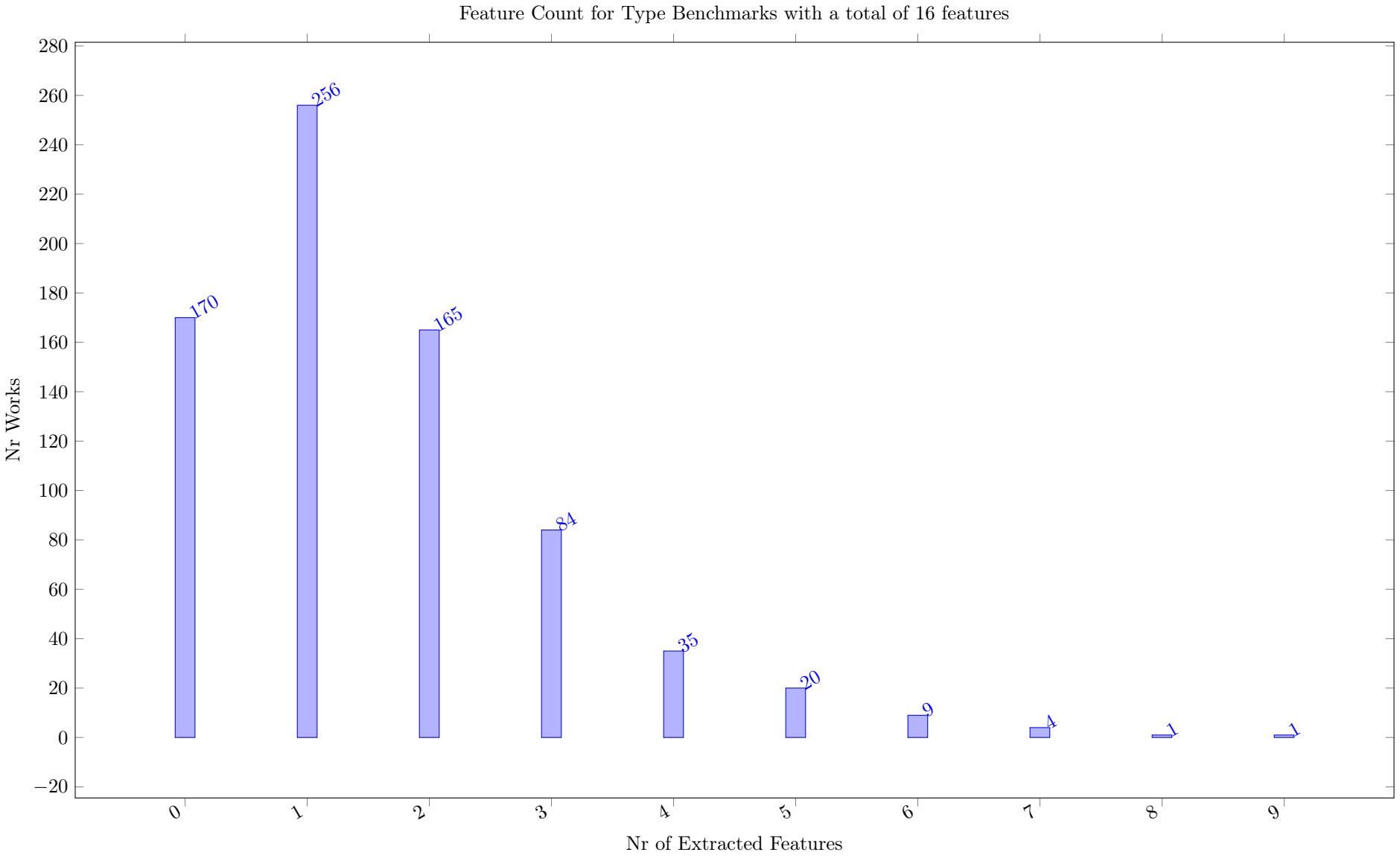

Feature Count for Type Constraints with a total of 63 features
Nr Works
Nr of Extracted Features
0
20
40
60
80
100
120
140
160
180
106
157
165
133
87
37
20
14
12
2
3
3
3
1
2
0
1
2
3
4
5
6
7
8
9
10
11
12
14
19

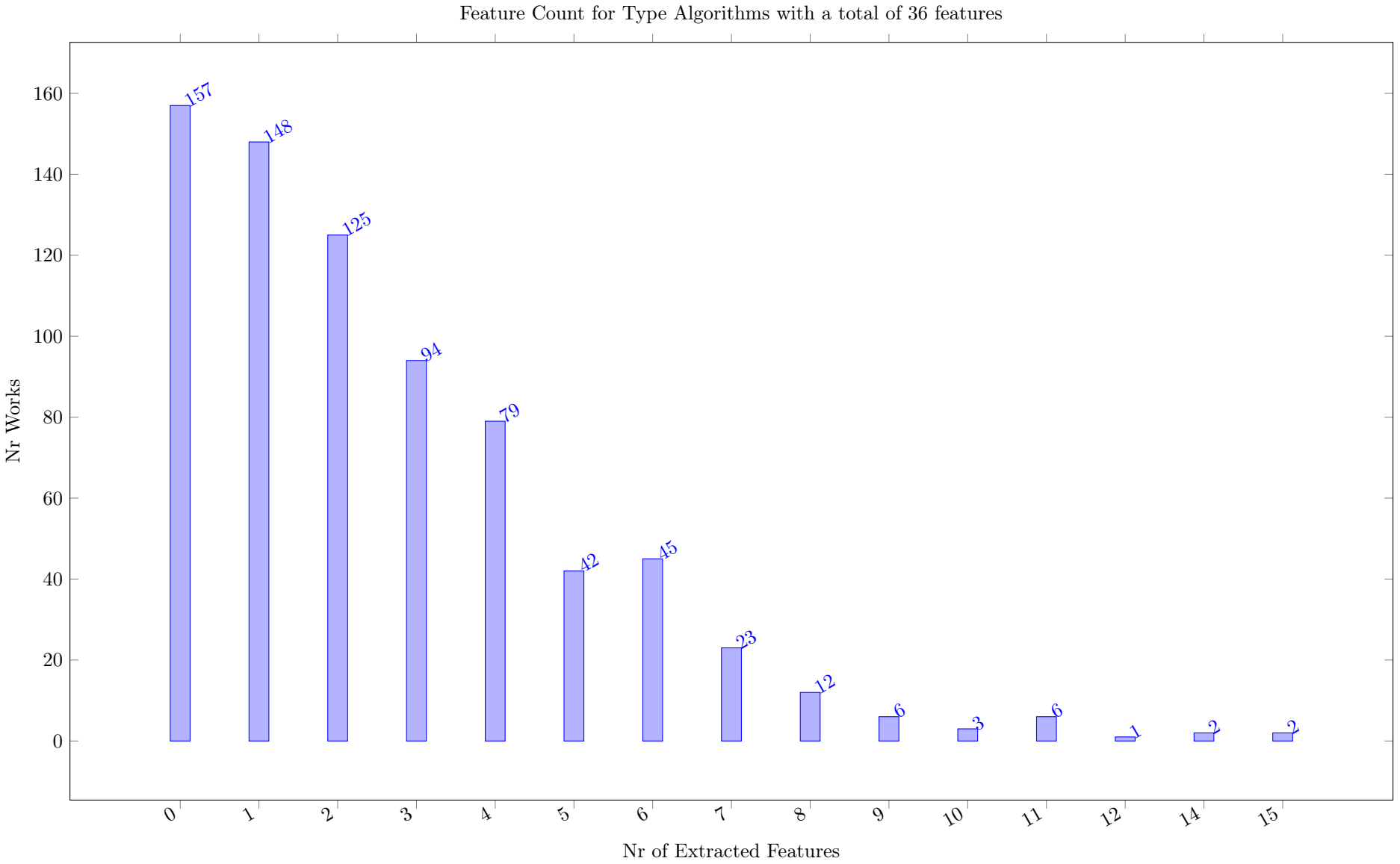

Feature Count for Type ApplicationAreas with a total of 61 features
Nr Works
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
−20
280
209
130
52
31
22
12
3
2
3
1
0
1
2
3
4
5
6
7
8
9
16
Nr of Extracted Features


Feature Count for Type Industries with a total of 77 features
Nr Works
650
600
550
500
450
400
350
300
250
200
150
100
50
0
−50
613
91
24
9
5
2
1
0
1
2
3
4
5
7
Nr of Extracted Features


Feature Count for Type ProgLanguages with a total of 7 features
Nr Works
500
450
400
350
300
250
200
150
100
50
0
474
226
37
7
1
0
1
2
3
4
Nr of Extracted Features


Feature Count for Type CPSystems with a total of 19 features
Nr Works
240
220
200
180
160
140
120
100
80
60
40
20
0
−20
155
230
182
100
37
20
8
8
3
1
1
0
1
2
3
4
5
6
7
8
9
10
Nr of Extracted Features


Feature Count for Type Benchmarks with a total of 16 features
Nr Works
Nr of Extracted Features
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
−20
0
1
2
3
4
5
6
7
8
9
170
256
165
84
35
20
9
4
1
1

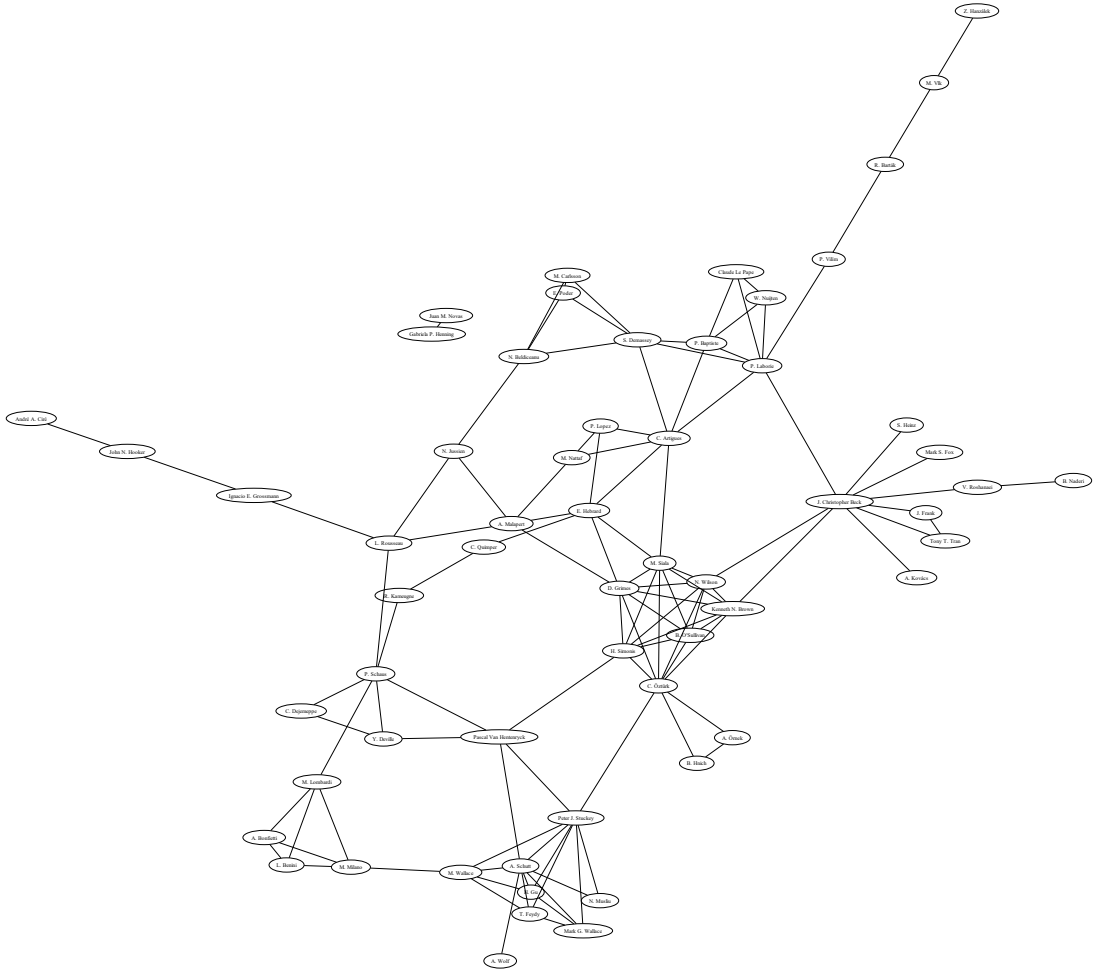

Feature Count for Type Algorithms with a total of 36 features
Nr Works
Nr of Extracted Features
0
20
40
60
80
100
120
140
160
0
1
2
3
4
5
6
7
8
9
10
11
12
14
15
157
148
125
94
79
42
45
23
12
6
3
6
1
2
2

12 Coauthor graph

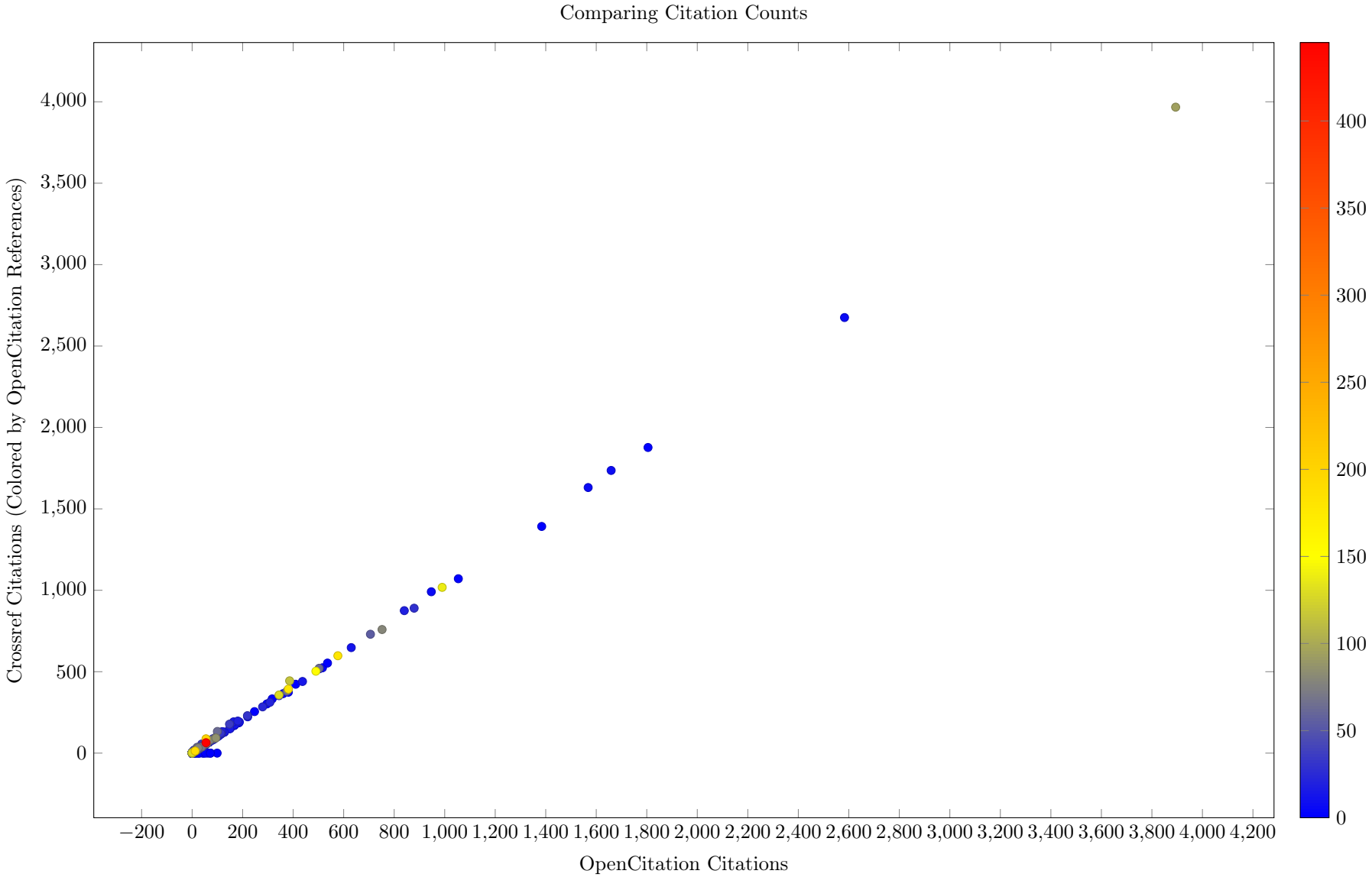
The coauthor plot is created by graphviz, and is based on the coauthor relations extracted from the author fields of the works. Authors with few works are not shown, to avoid a cluttered view. Note that this analysis depends on the use of canonical forms of author names. If bib entries come from any different sources, we will need to check this manually. DBLP seems to be using ORCID values and typically identifies the authors of a work with a canonical representation of their name. Accents and umlauts are other sources of having multiple forms of the name of the same author. Note that the risk of two different authors using the same name should be low for very specific literature surveys, but cannot be checked with the data sources currently used.

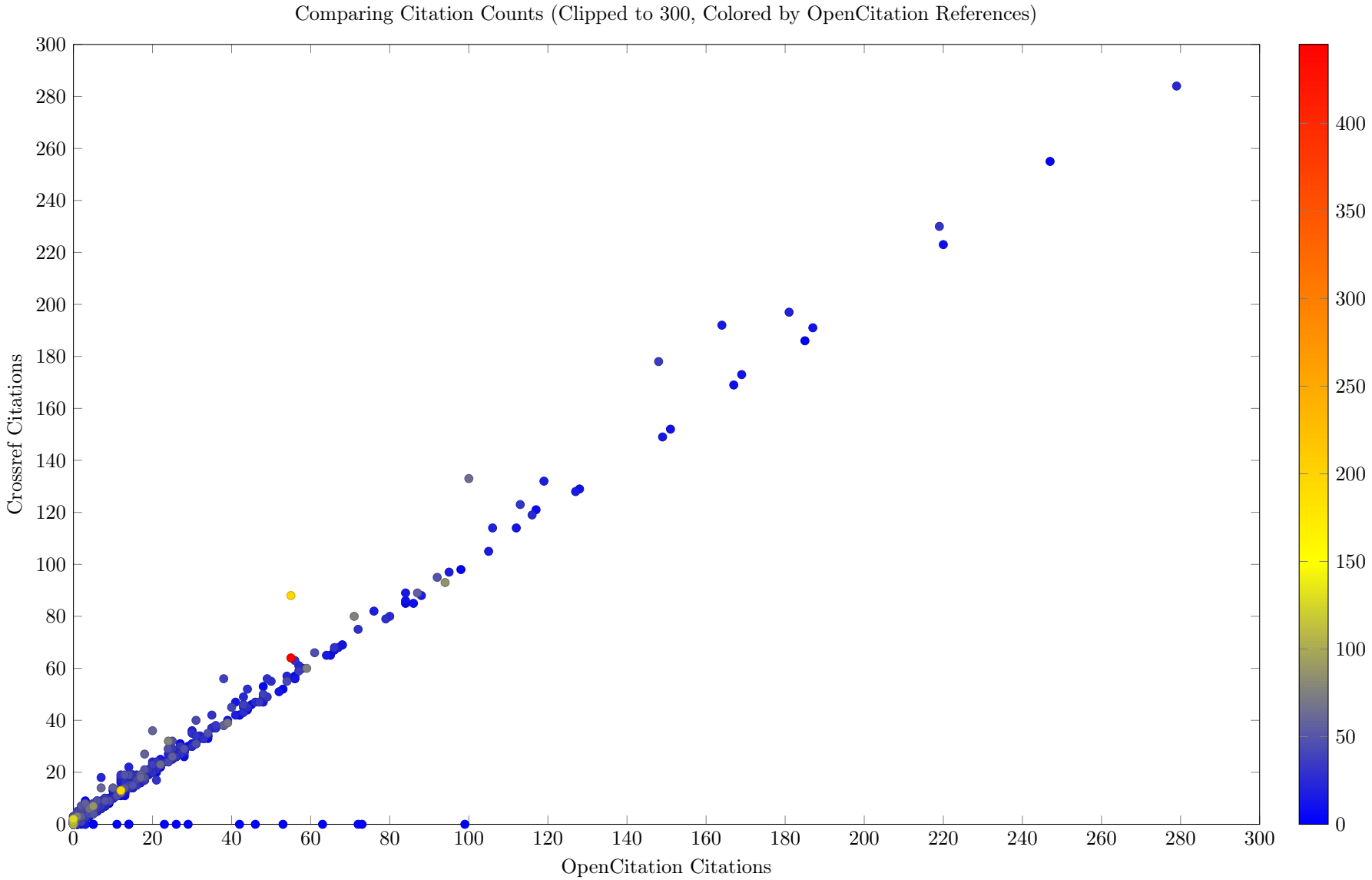
The plots can be made with different layout tools in graphviz, it seems that fdp produces the most consistent visually attractive plots for this type of display. This probably needs more work on parameter settings to be fully automated.

Figure 1: Coauthor Graph Drawn with fdp (Graphviz)



13 OpenCitations vs. Crossref Data




Comparing Citation Counts (Clipped to 300, Colored by OpenCitation References)
Crossref Citations
OpenCitation Citations
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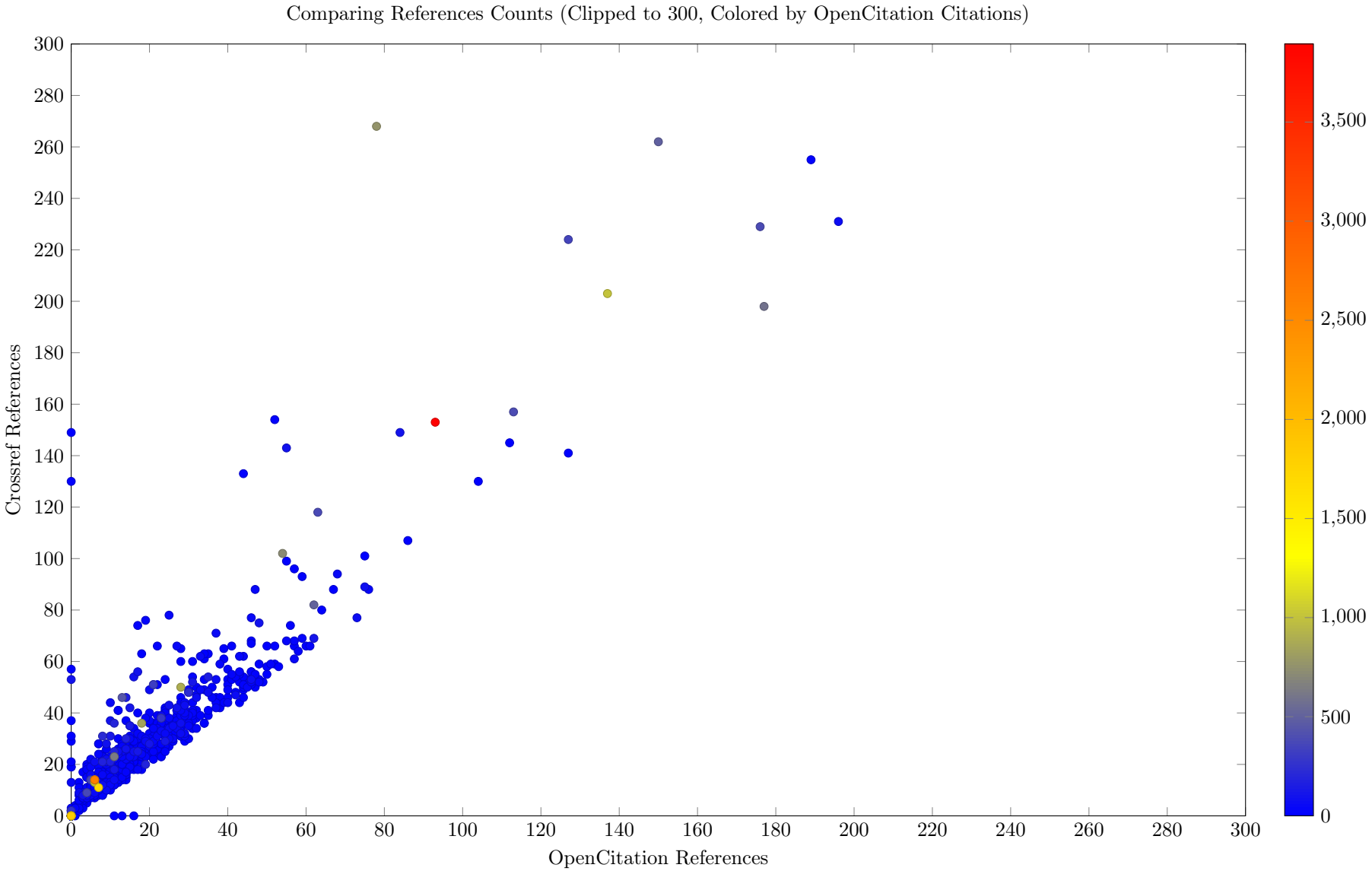
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
0
50
100
150
200
250
300
350
400


Comparing References Counts (Clipped to 300, Colored by OpenCitation Citations)
Crossref References
OpenCitation References
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
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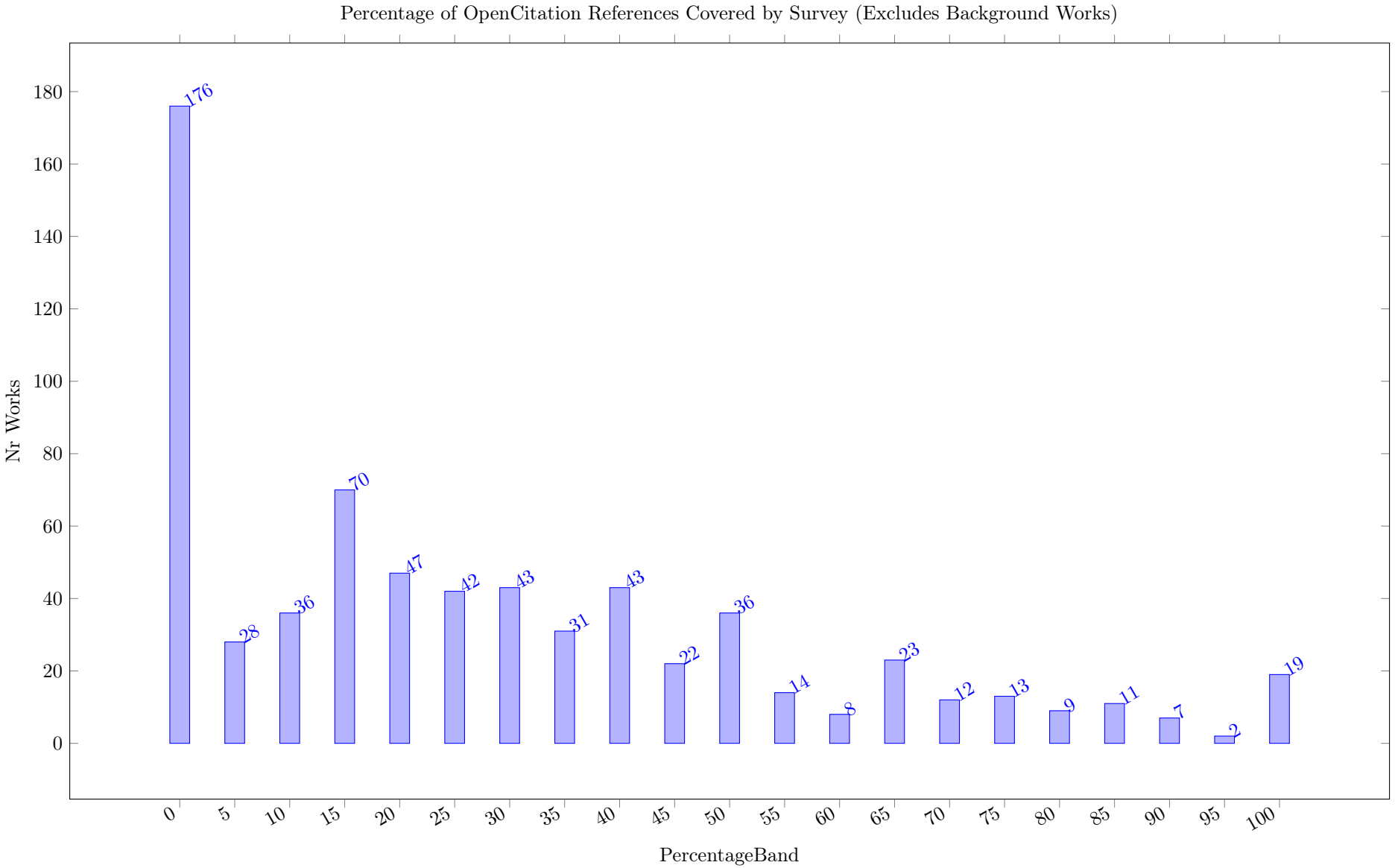
2,500
2,000
1,500
1,000
500
0


Percentage of OpenCitation References Covered by Survey (Excludes Background Works)
Nr Works
PercentageBand
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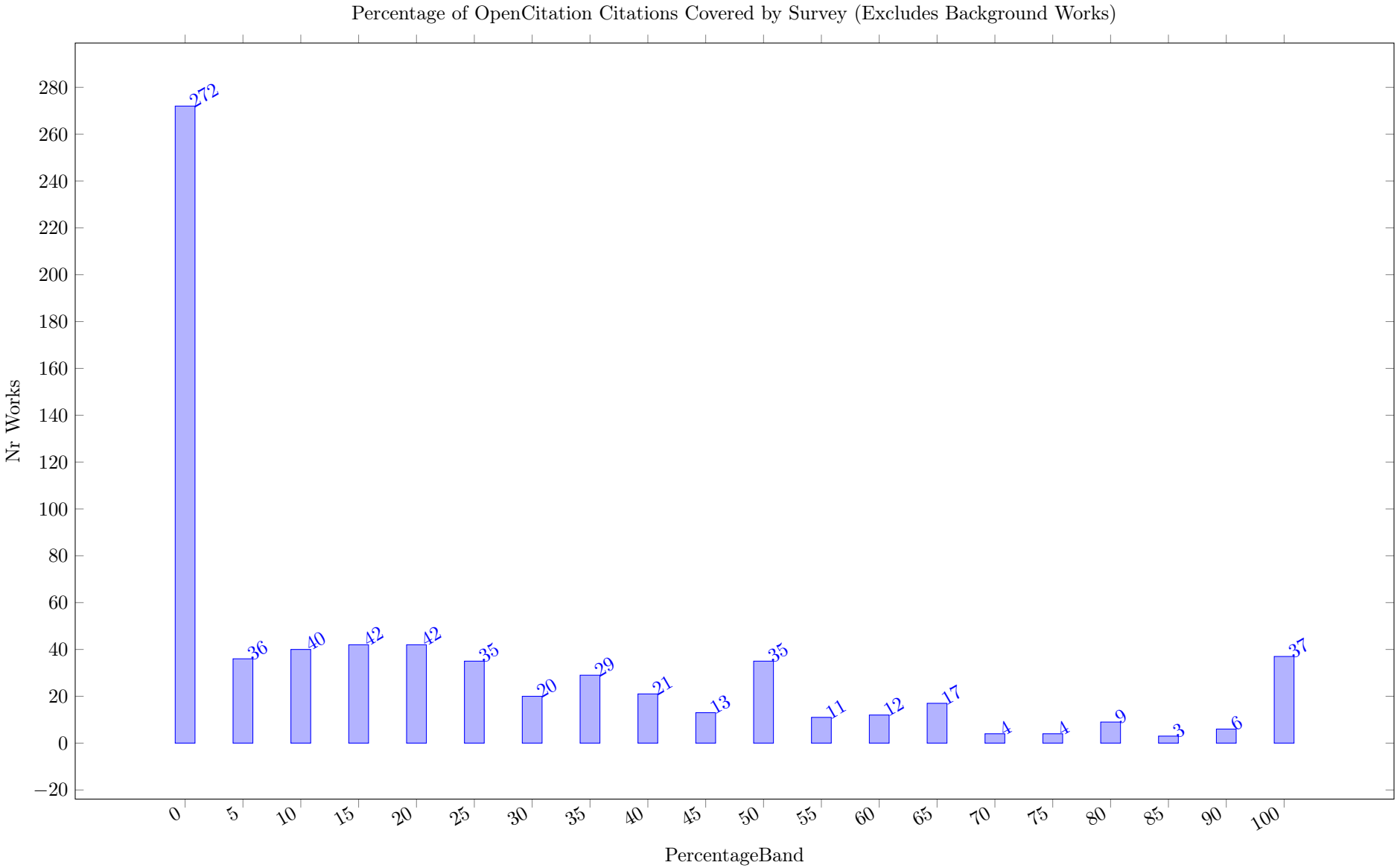
176 28 36 70 47 42 43 31 43 22 36 14 8 23 12 13 9 11 7 2 19


Percentage of OpenCitation Citations Covered by Survey (Excludes Background Works)
Nr Works
PercentageBand
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
−20
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
100
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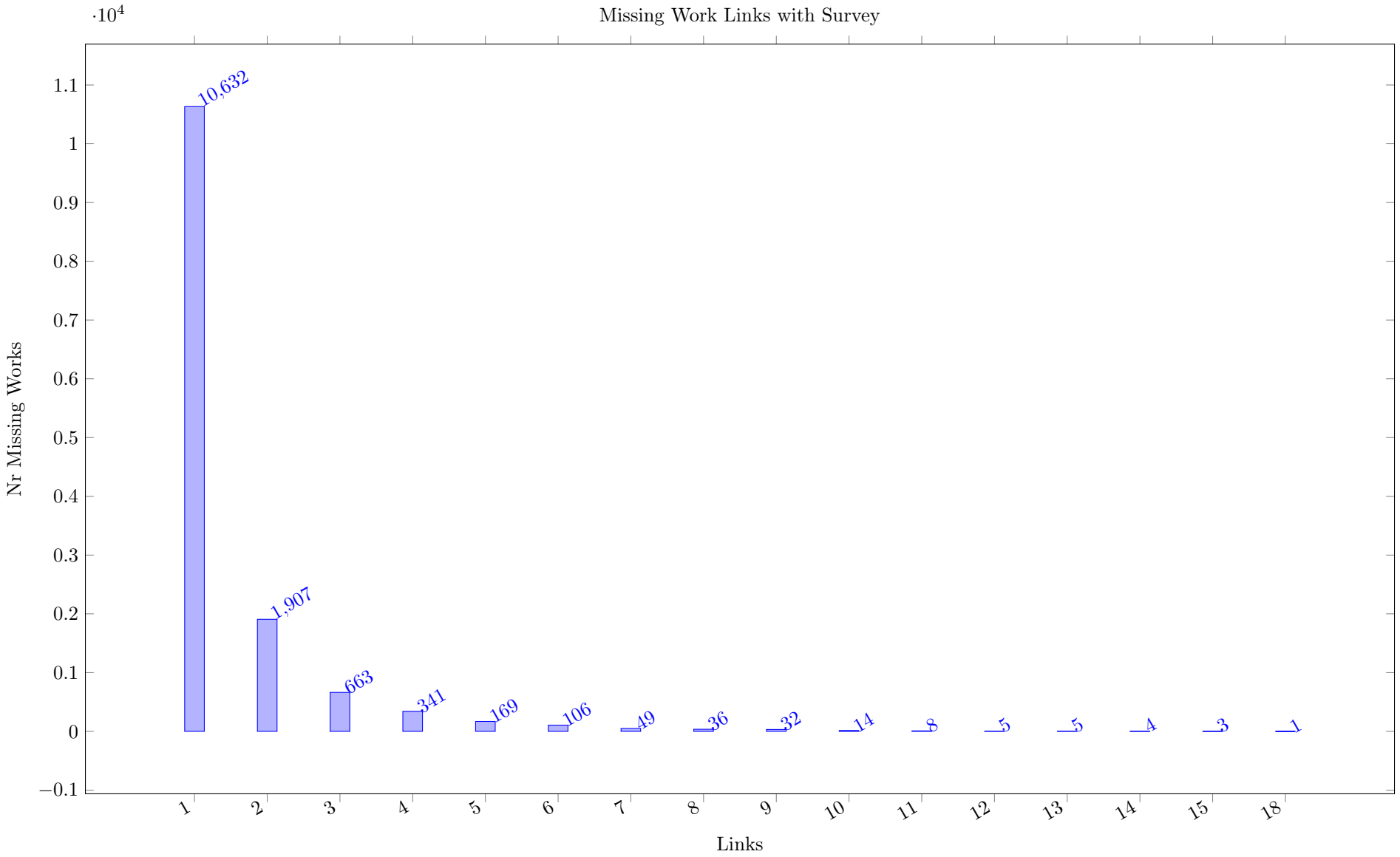
3
6
37


Missing Work Links with Survey
$\cdot 10^4$
Nr Missing Works
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0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
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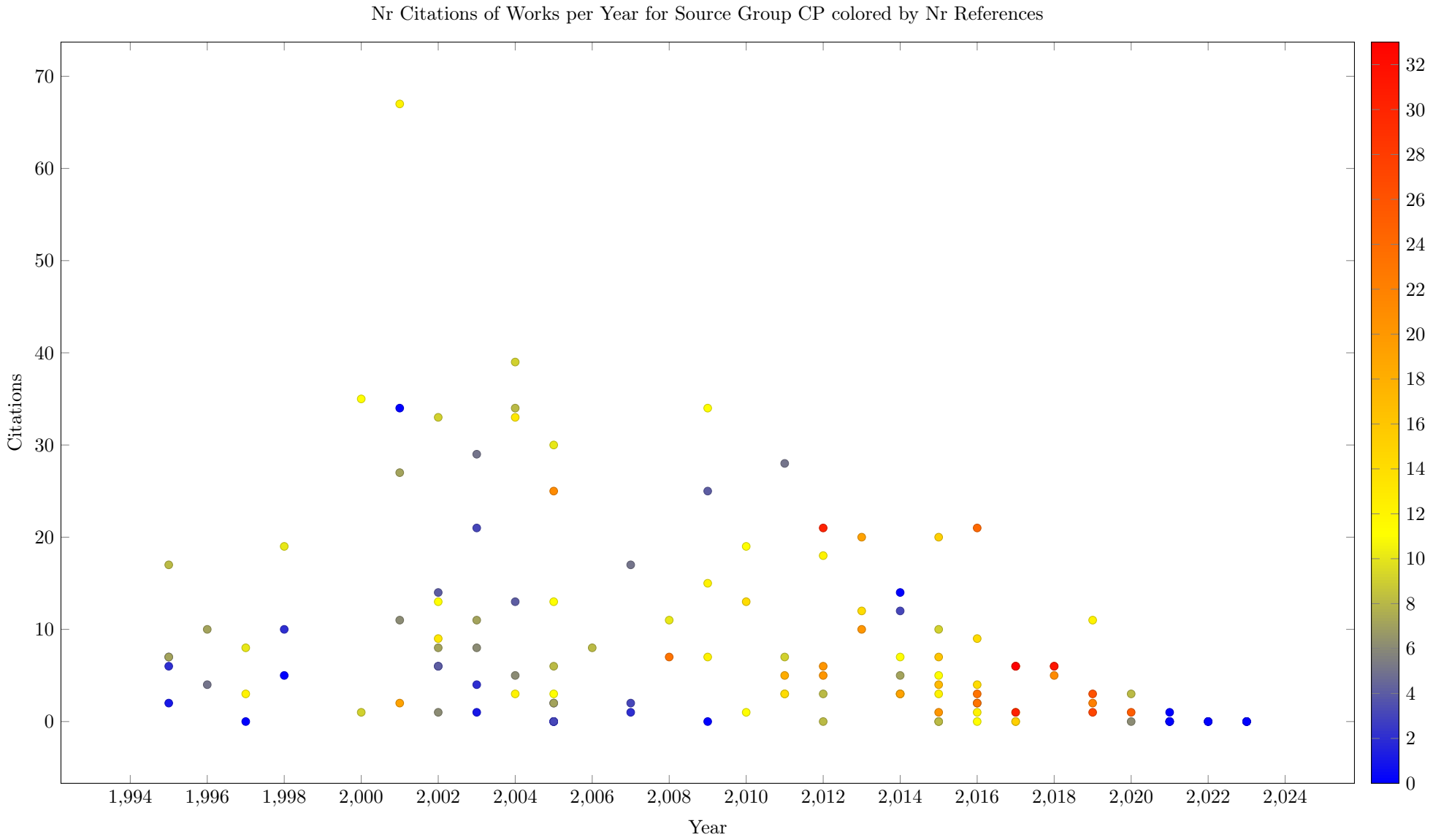
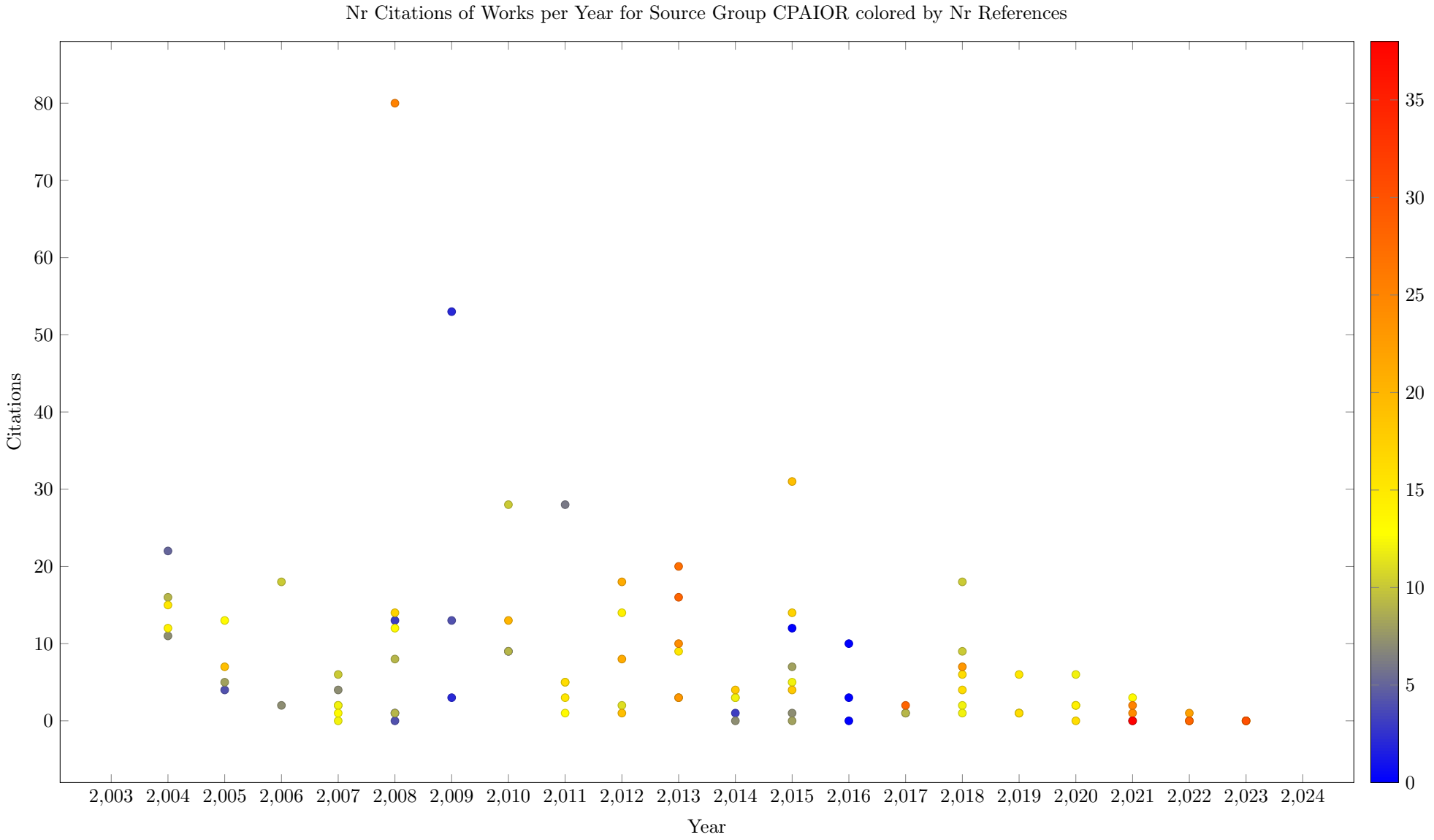
1,907
663
341
169
106
49
36
32
14
8
5
5
4
3
1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
18

14 Citations by Year and Source Group




Nr Citations of Works per Year for Source Group CPAIOR colored by Nr References
Citations
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10
20
30
40
50
60
70
80
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2,005
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2,013
2,014
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2,016
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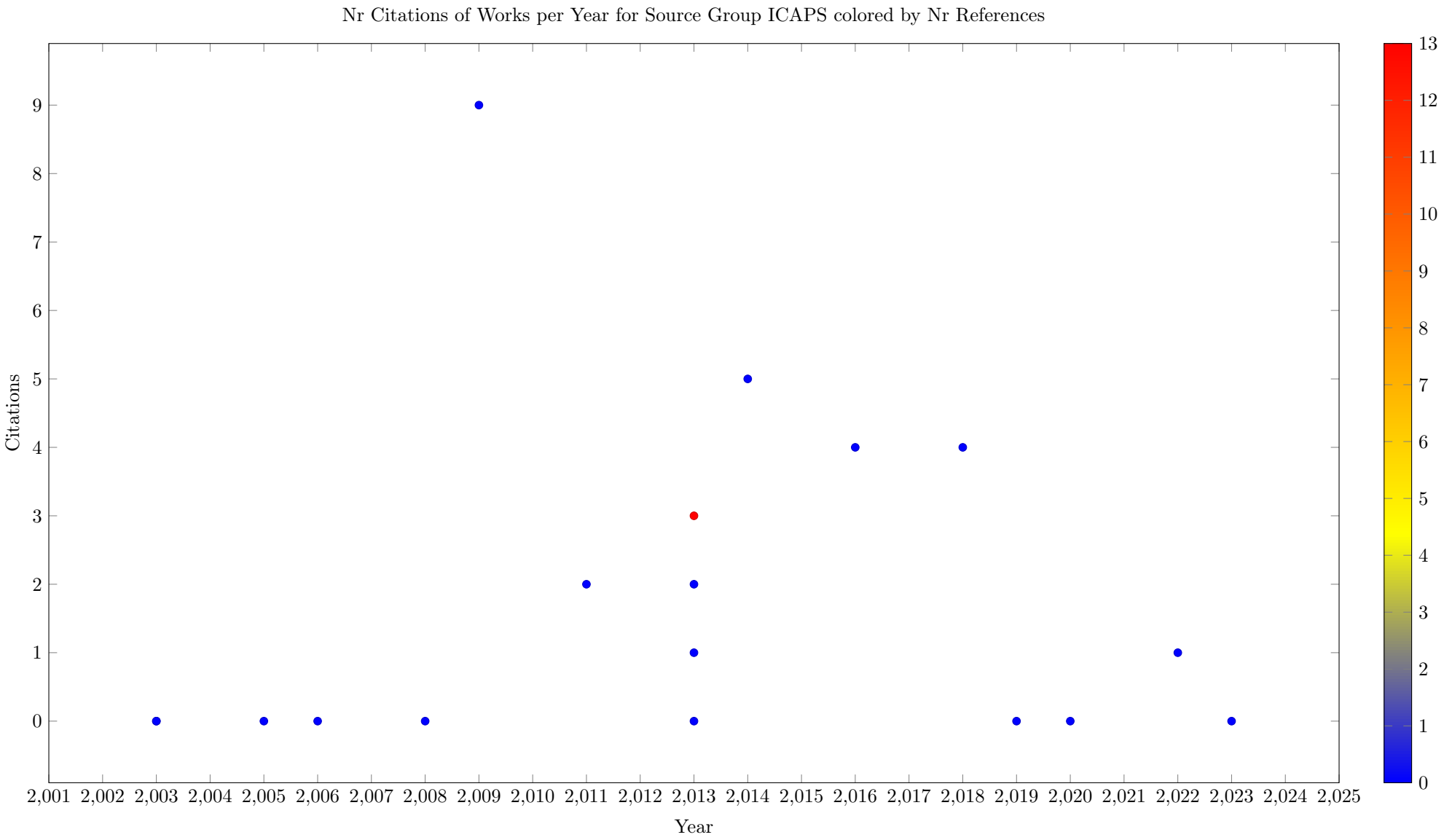
30
35


Nr Citations of Works per Year for Source Group ICAPS colored by Nr References
Citations
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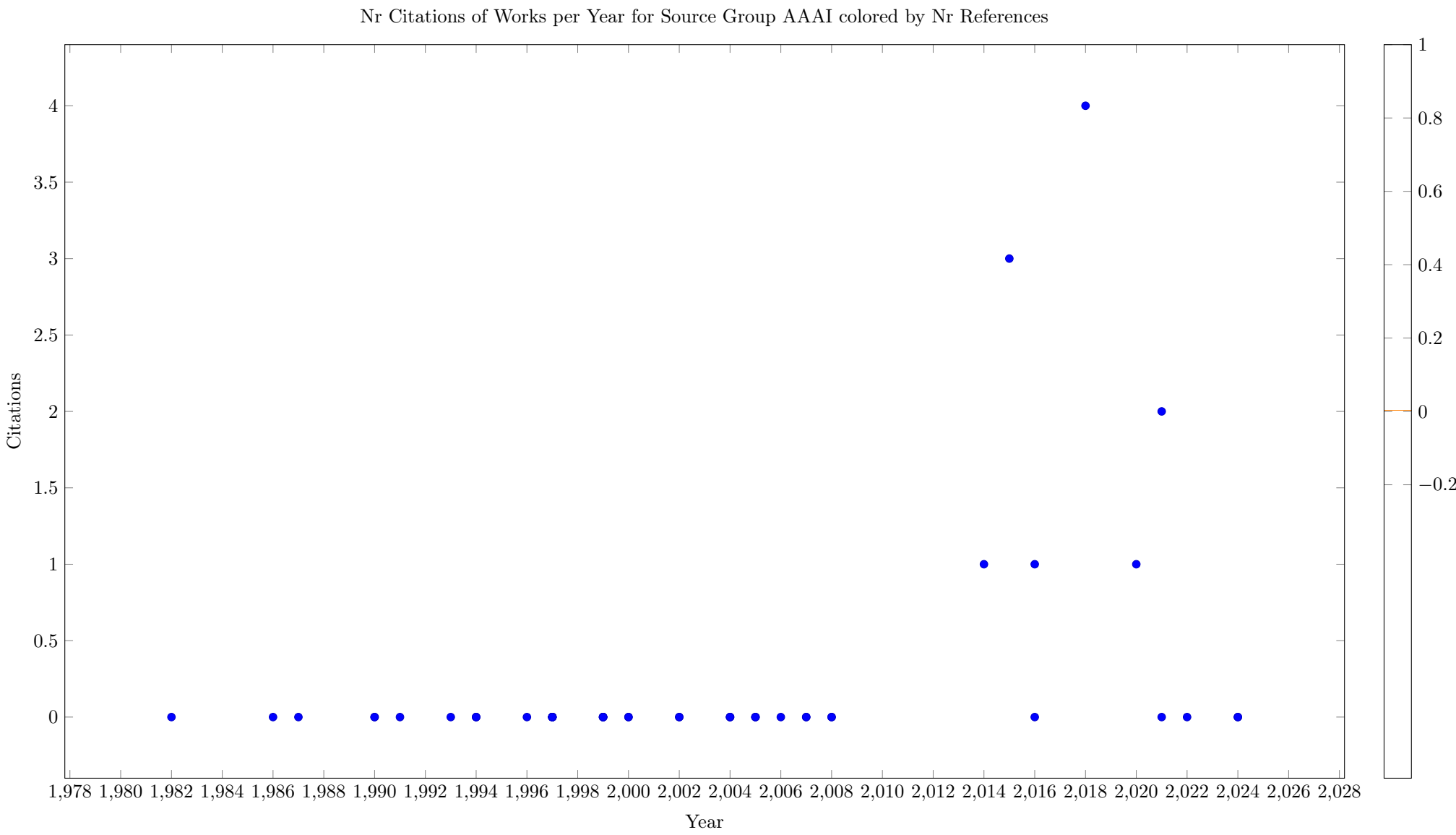
1
2
3
4
5
6
7
8
9
Year
2,001 2,002 2,003 2,004 2,005 2,006 2,007 2,008 2,009 2,010 2,011 2,012 2,013 2,014 2,015 2,016 2,017 2,018 2,019 2,020 2,021 2,022 2,023 2,024 2,025
0 1 2 3 4 5 6 7 8 9 10 11 12 13


Nr Citations of Works per Year for Source Group AAAI colored by Nr References
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3
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0.6
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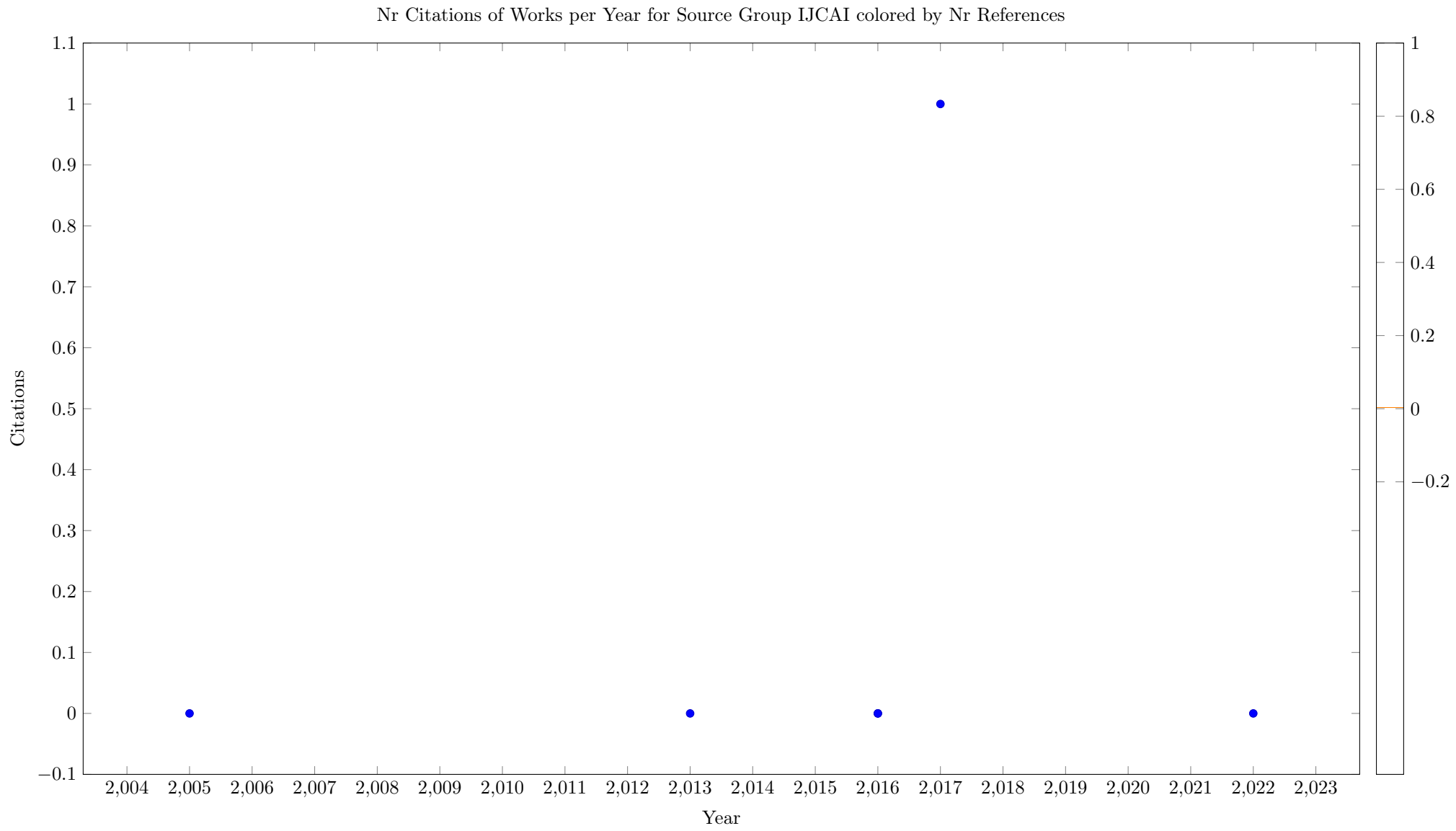
Nr Citations of Works per Year for Source Group IJCAI colored by Nr References
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0.4
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2,006
2,007
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2,010
2,011
2,012
2,013
2,014
2,015
2,016
2,017
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2,021
2,022
2,023
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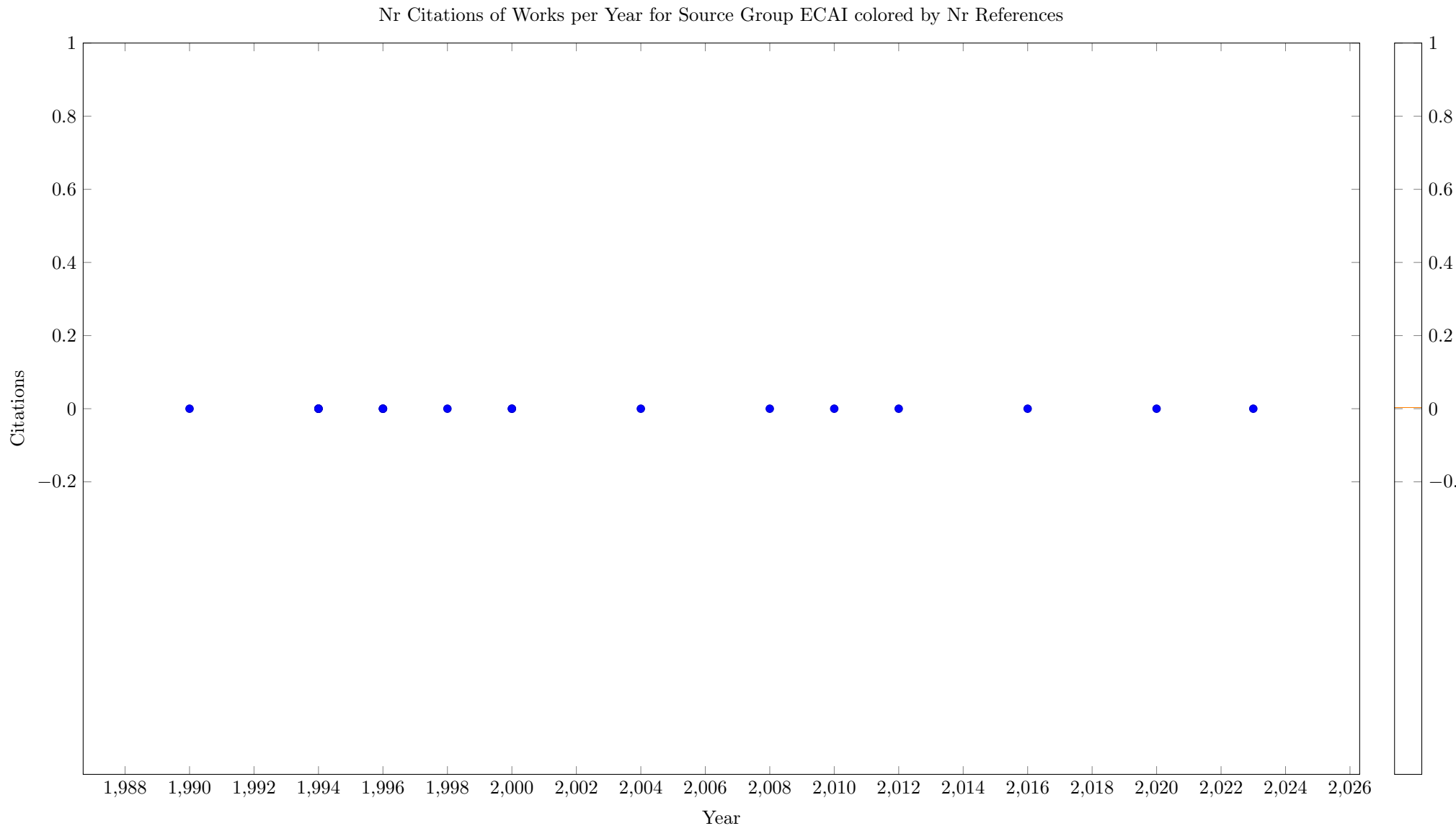
0
−0.2


Nr Citations of Works per Year for Source Group ECAI colored by Nr References
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1,994
1,996
1,998
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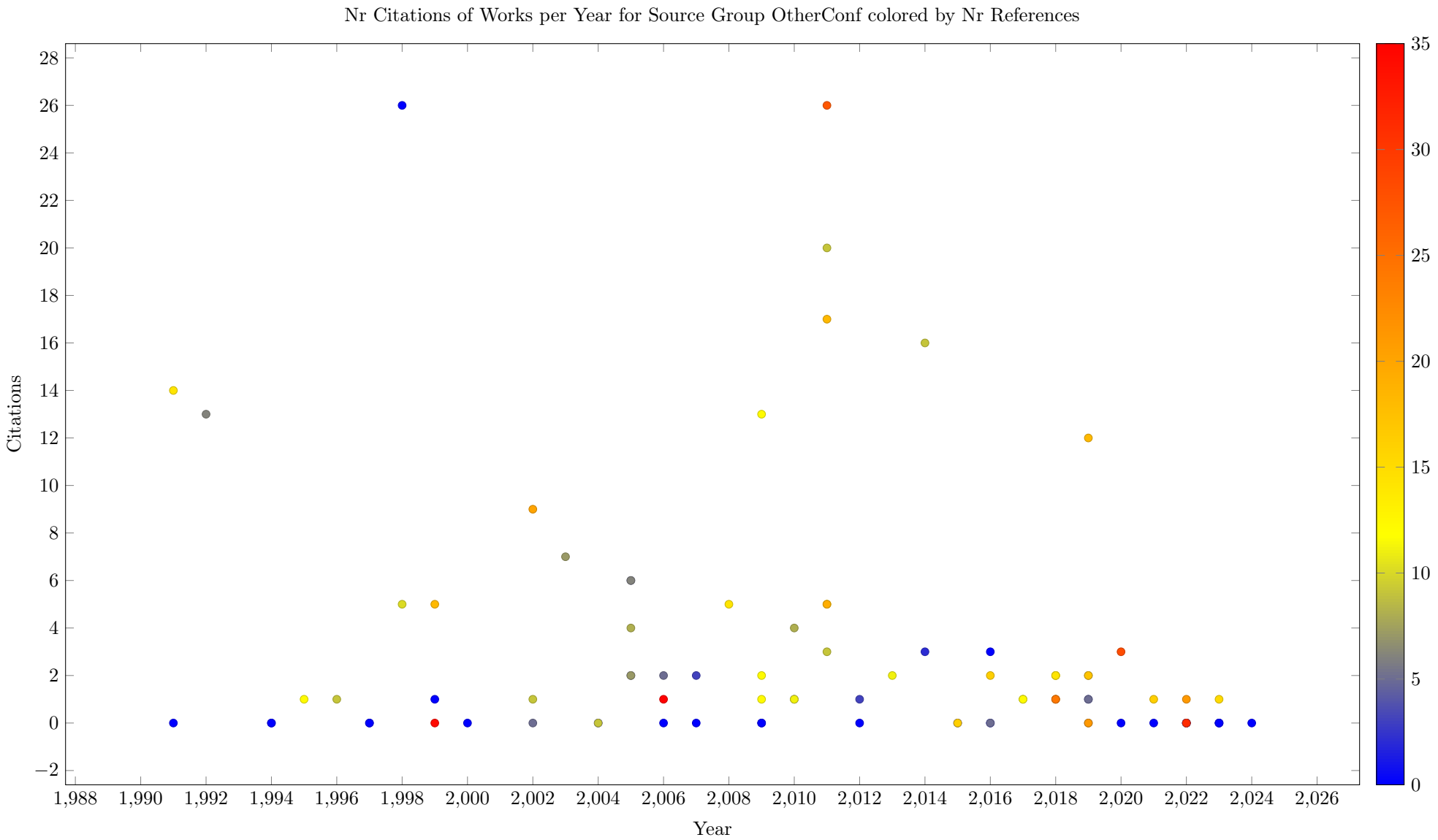
2,018
2,020
2,022
2,024
2,026
Year


Nr Citations of Works per Year for Source Group OtherConf colored by Nr References
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18
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12
10
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6
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2
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−2
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1,994
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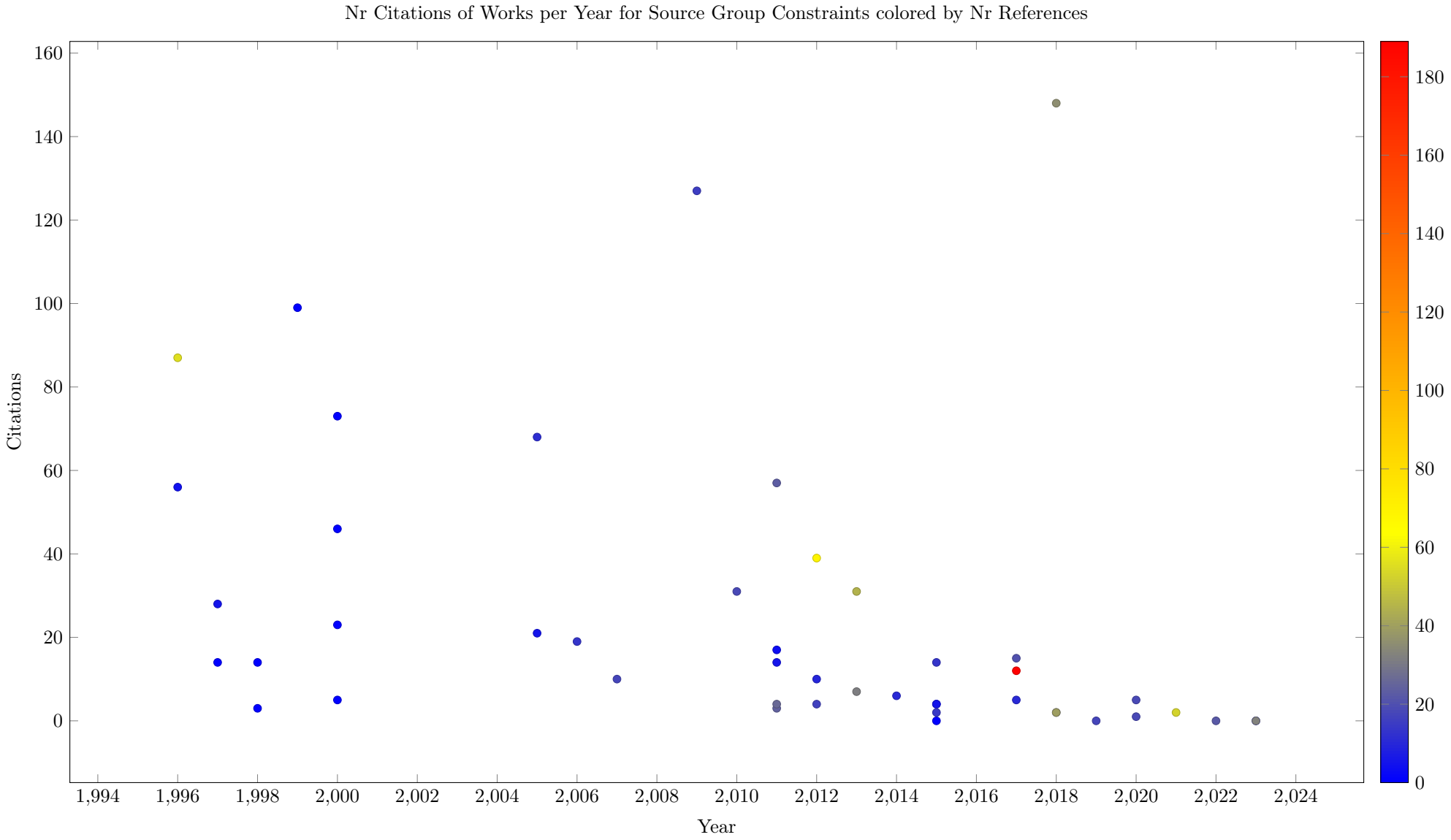
Nr Citations of Works per Year for Source Group Constraints colored by Nr References
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140
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180
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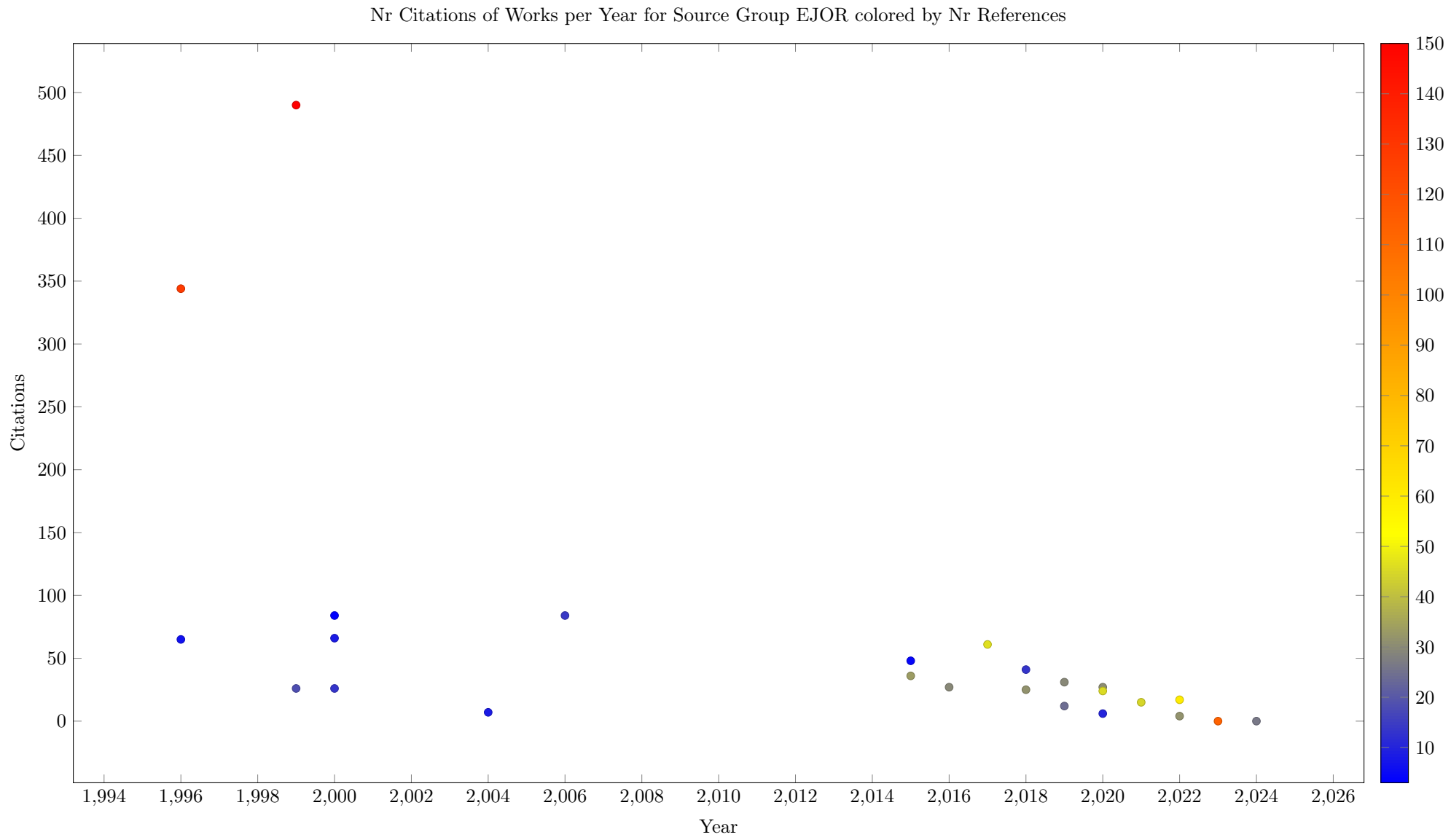
2,024


Nr Citations of Works per Year for Source Group EJOR colored by Nr References
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300
350
400
450
500
Year
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1,996
1,998
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2,020
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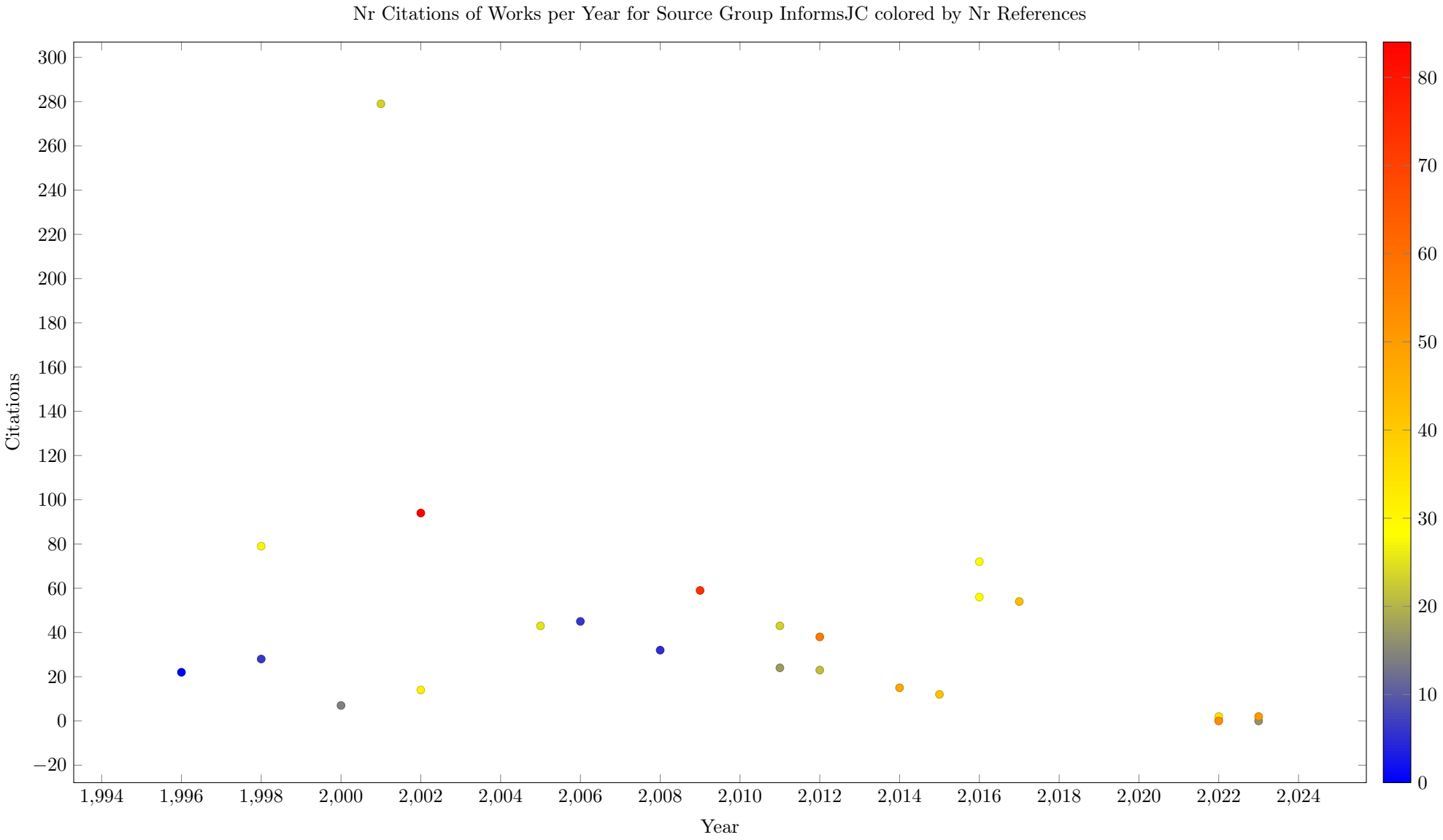
Nr Citations of Works per Year for Source Group InformsJC colored by Nr References
Citations
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220
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120
100
80
60
40
20
0
−20
1,994
1,996
1,998
2,000
2,002
2,004
2,006
2,008
2,010
2,012
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2,022
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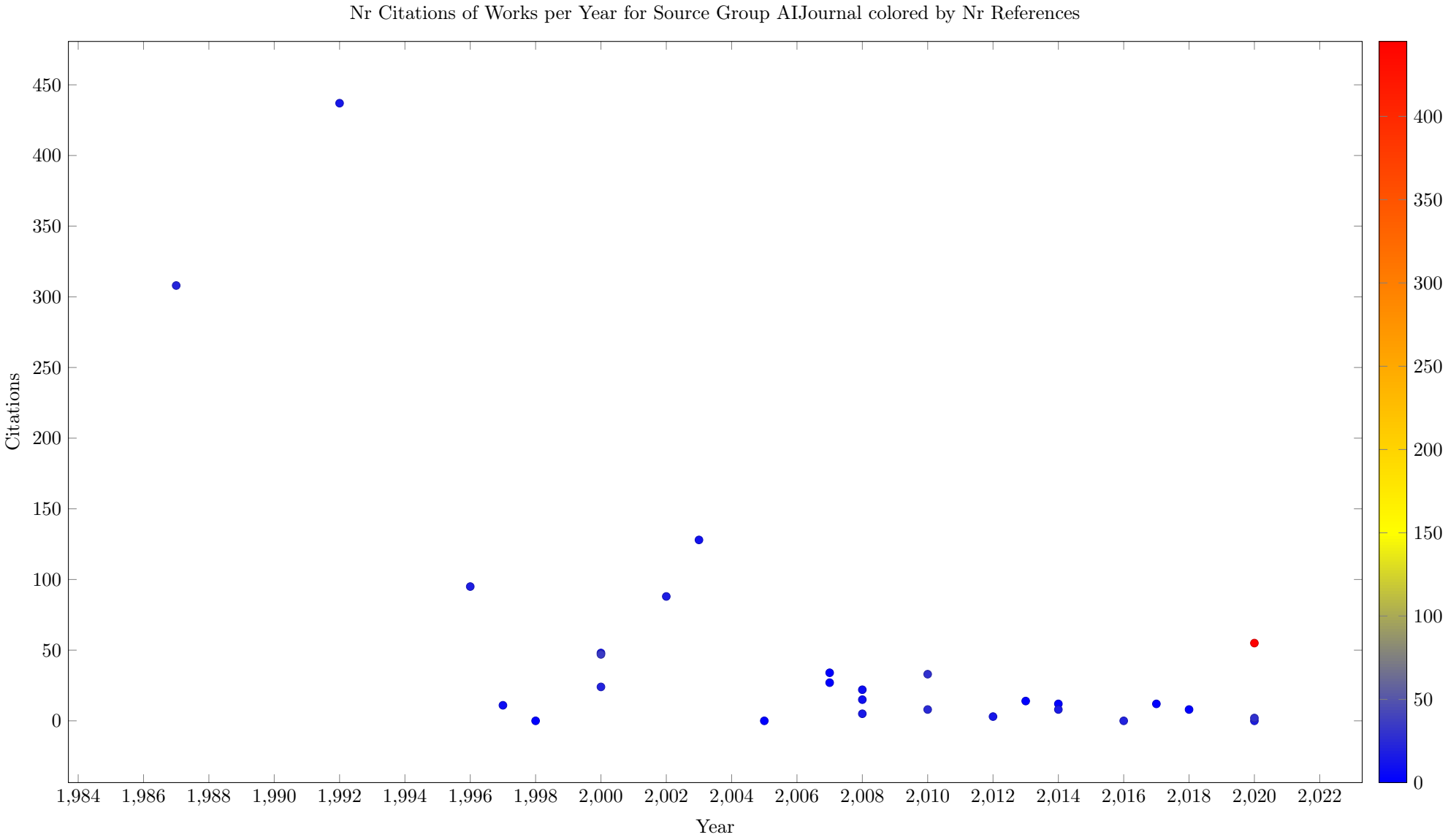
Nr Citations of Works per Year for Source Group AIJournal colored by Nr References
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300
350
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1,998
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2,022
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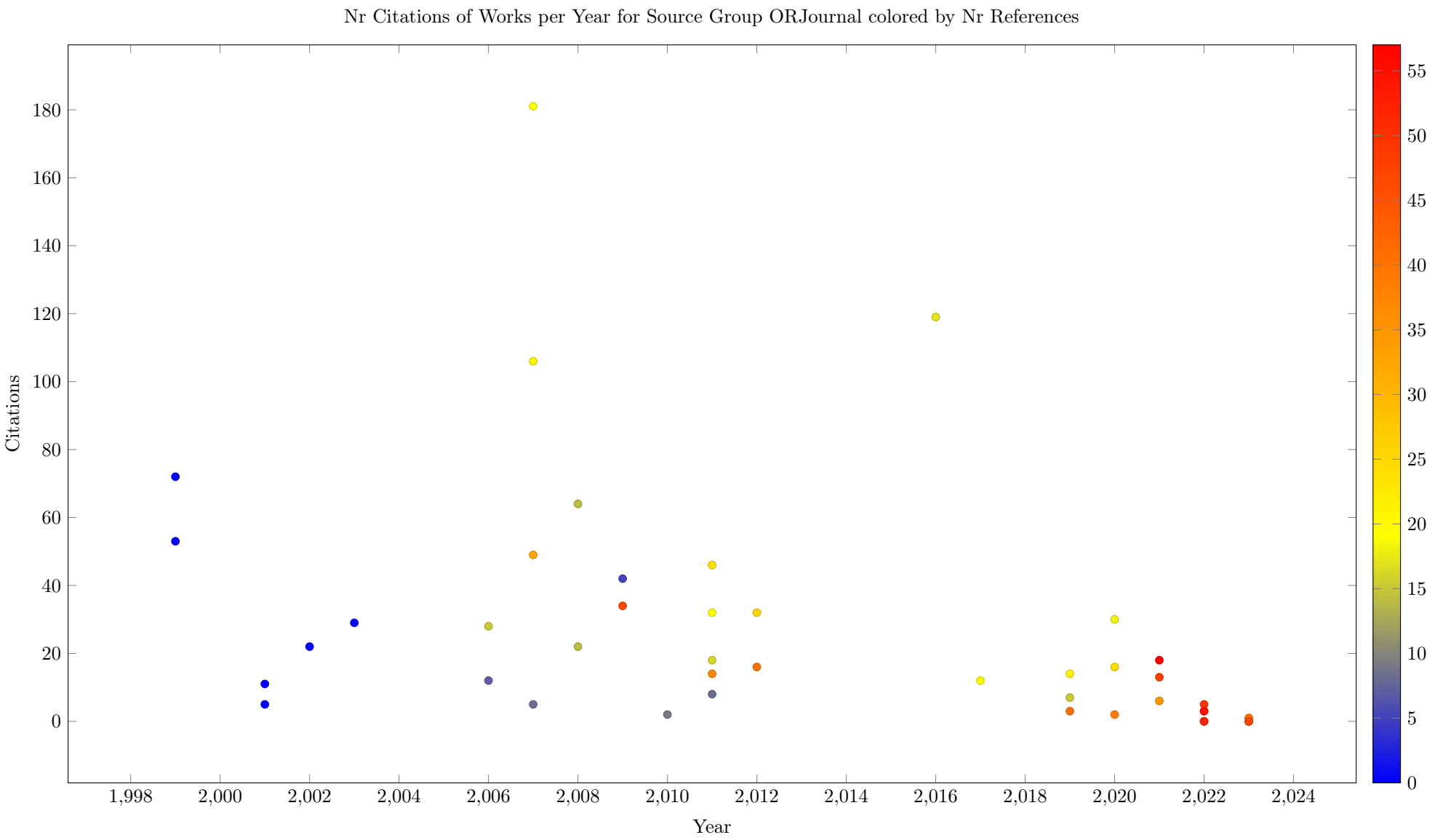
Nr Citations of Works per Year for Source Group ORJournal colored by Nr References
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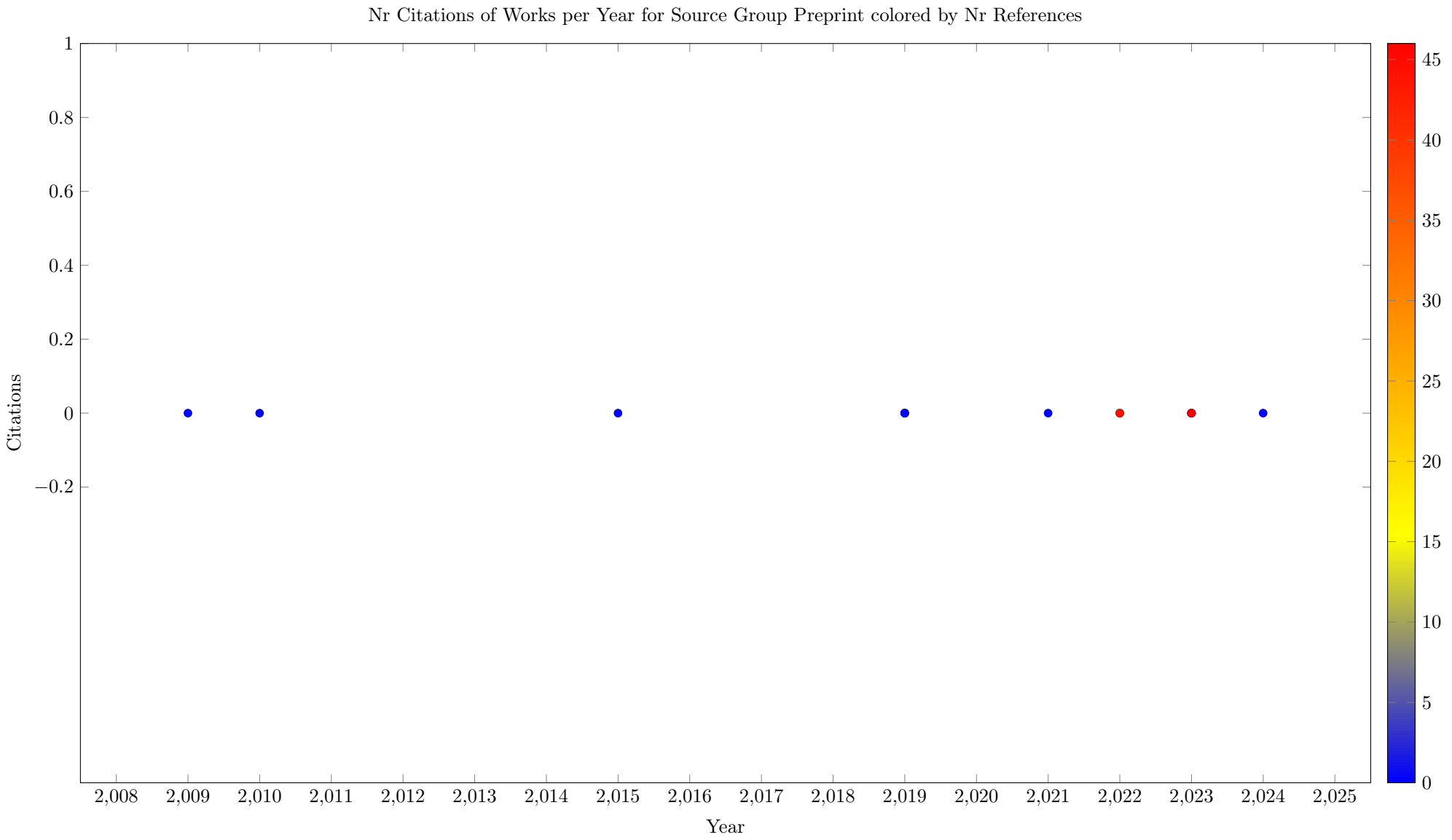
Nr Citations of Works per Year for Source Group Preprint colored by Nr References
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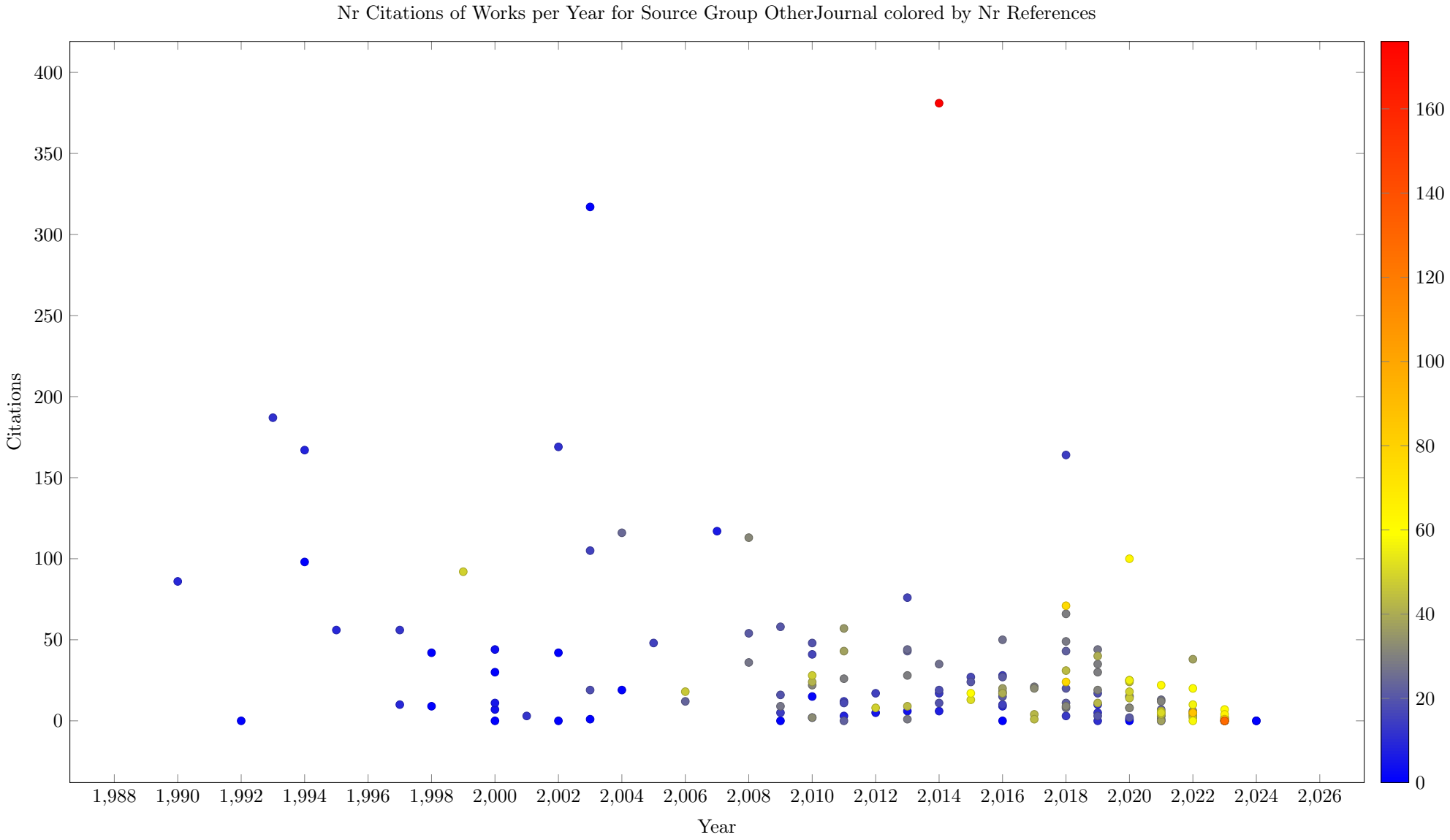
Nr Citations of Works per Year for Source Group OtherJournal colored by Nr References
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200
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1,994
1,996
1,998
2,000
2,002
2,004
2,006
2,008
2,010
2,012
2,014
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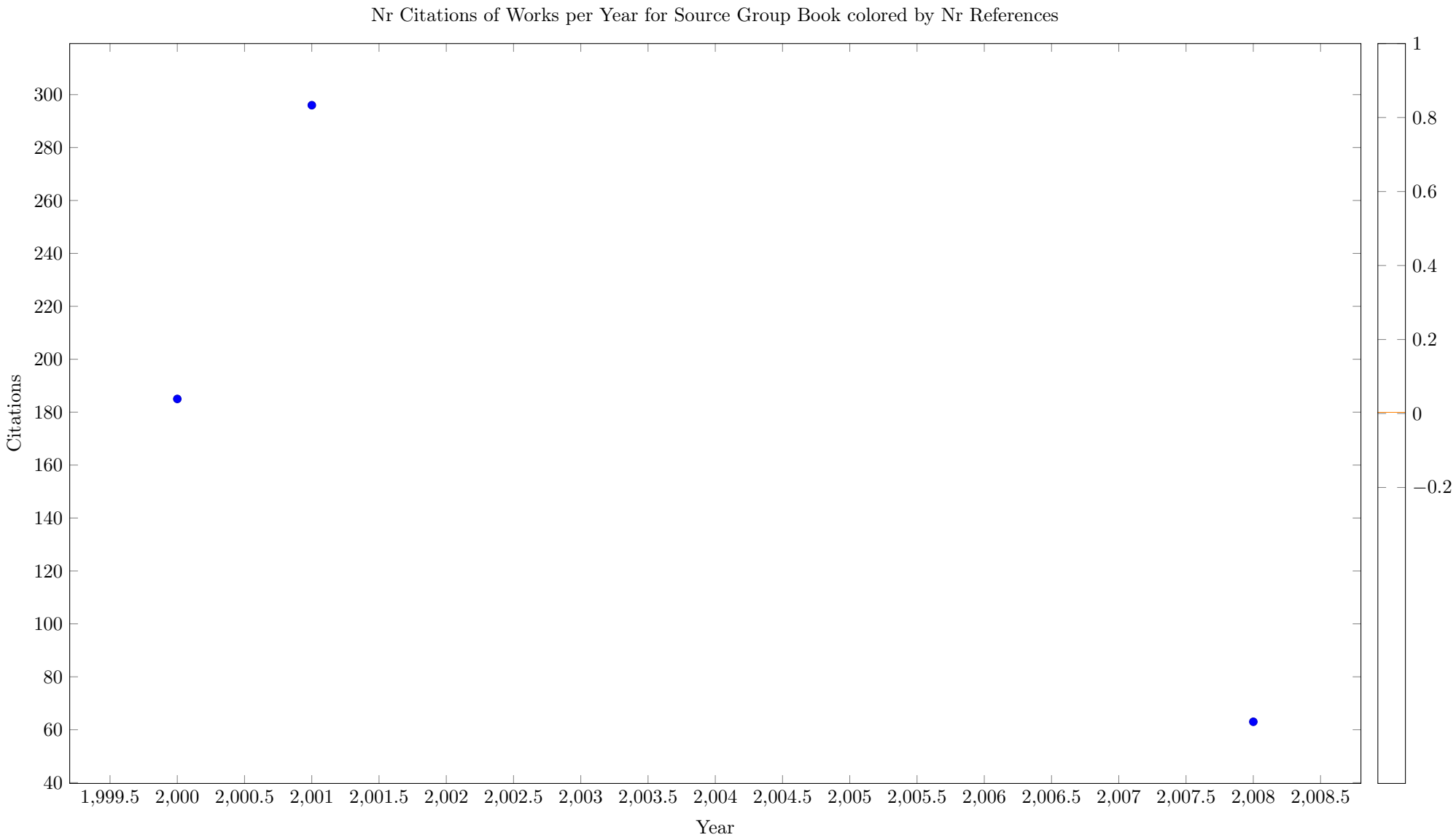
Nr Citations of Works per Year for Source Group Book colored by Nr References
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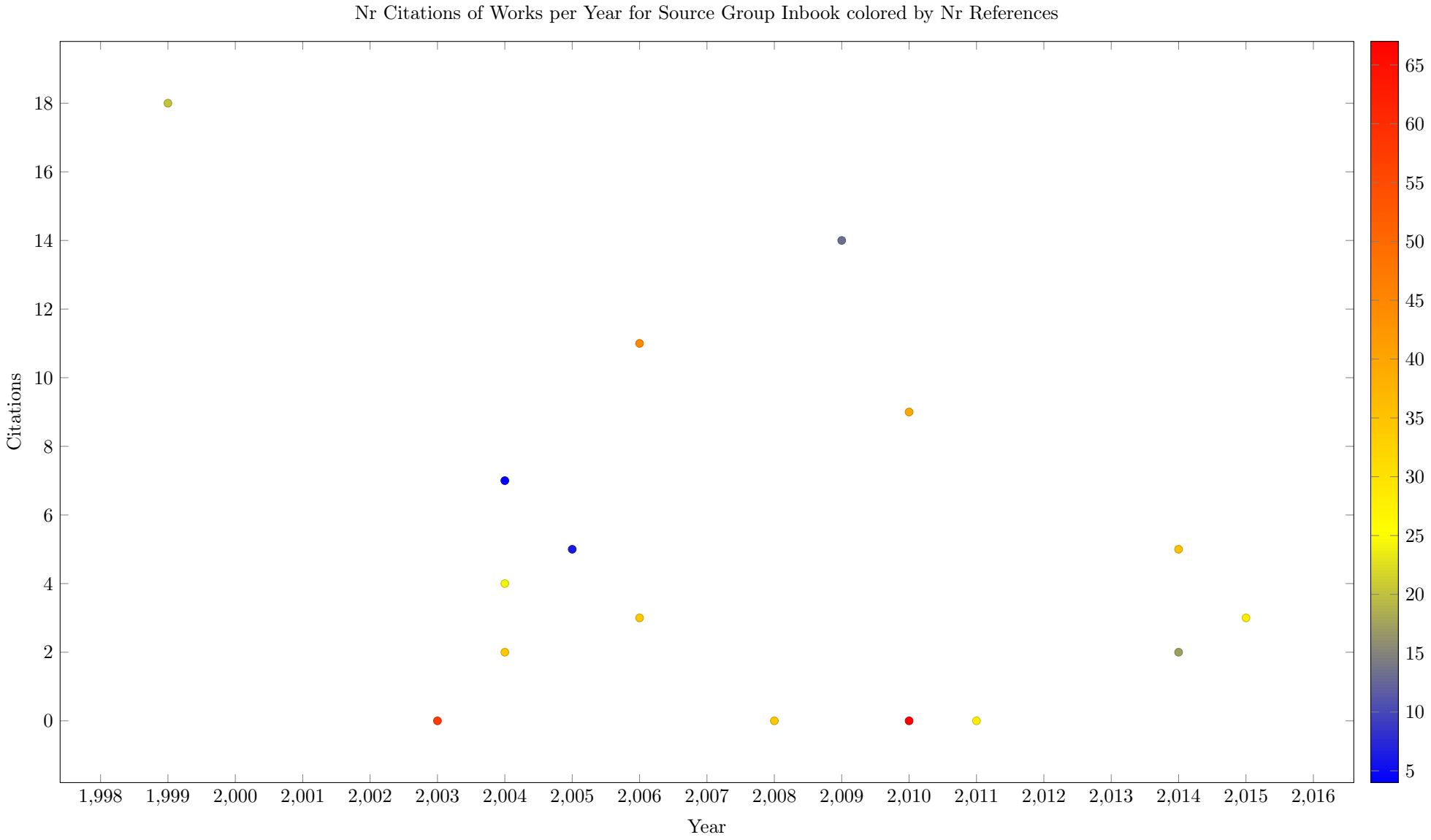
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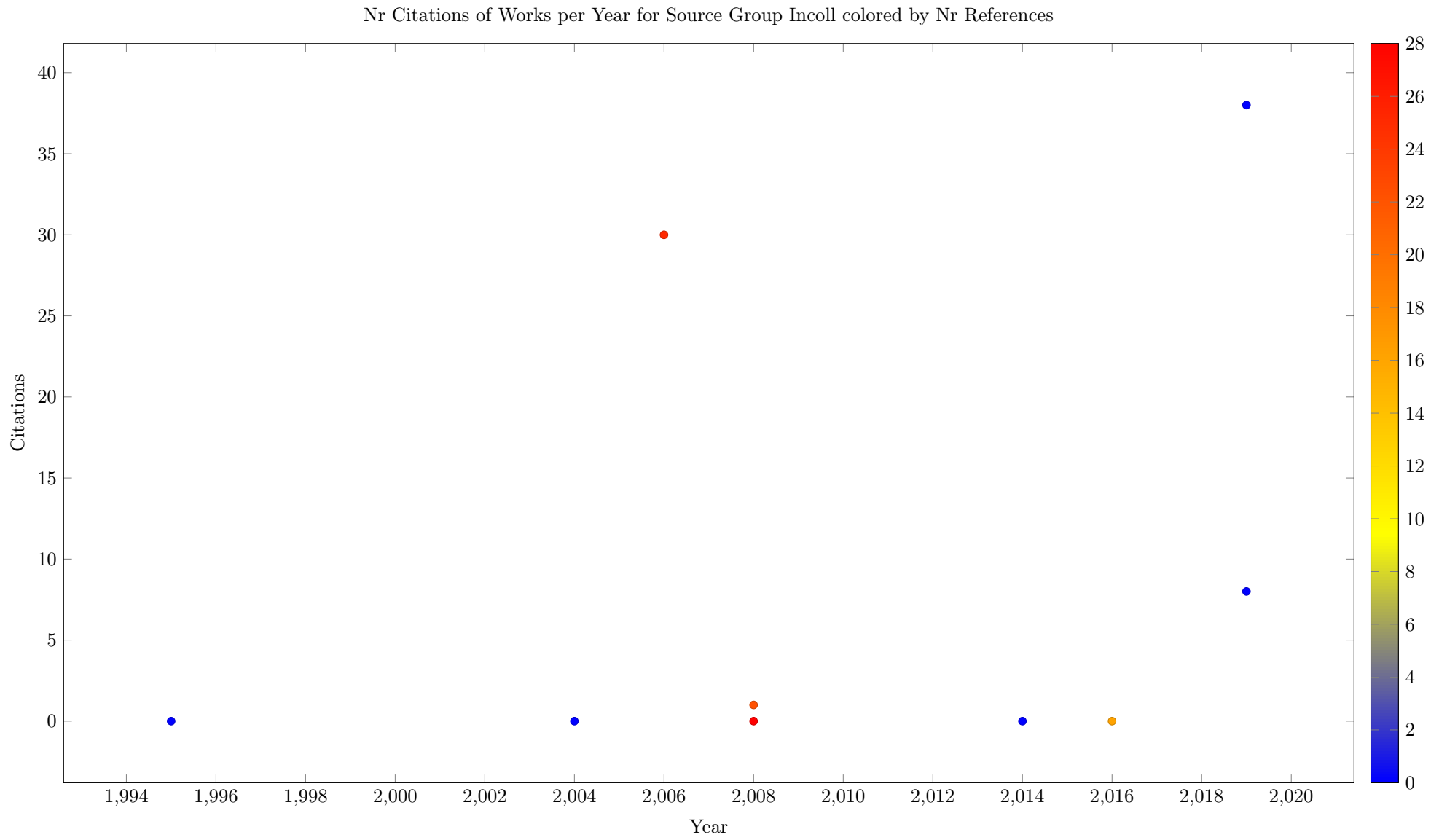
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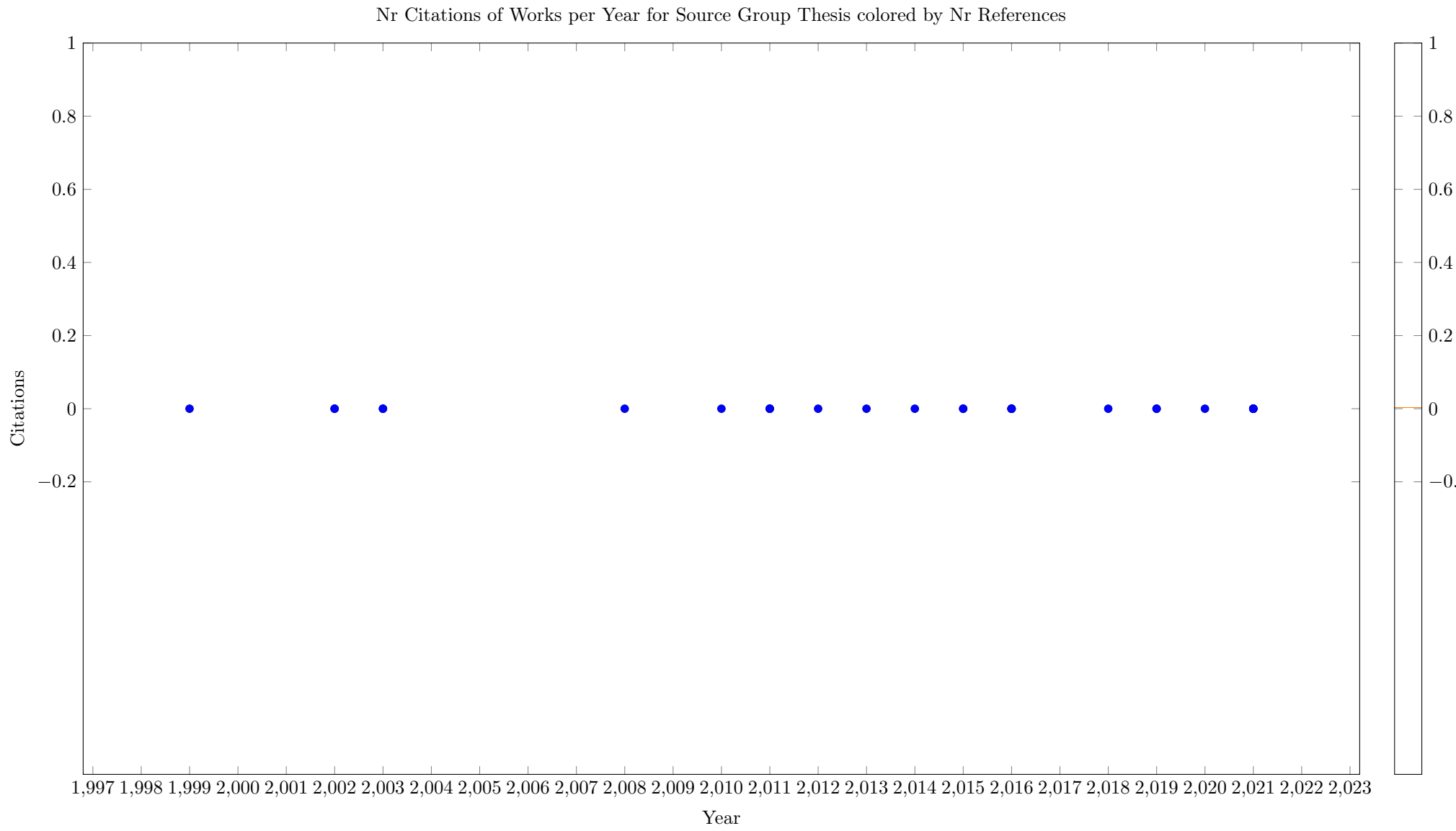
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Year