

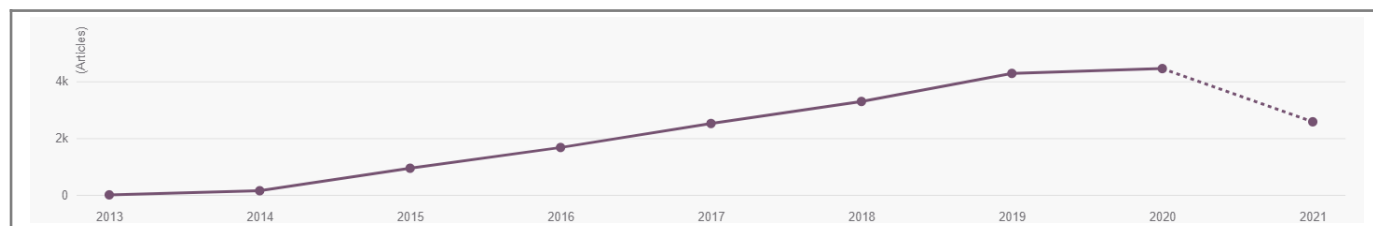
5G mobile communication

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Report generated from year 2013 to 2021

<p>Articles published</p> <p>19880 articles published with this Controlled term between 2013 - 2021</p>
<p>Articles published % change</p> <p>Between 2013 - 2020 article output increased 222500.00%</p>
<p>Times cited</p> <p>Articles published with this controlled term between 2013 - 2021 have been cited 8878 times, with an average of 0.45 citations per article</p>

Controlled term over time



#	Year	Articles	% Change	Times cited	Avg times cited
1	2013	2	n/a	1	0.50
2	2014	147	7250.00%	174	1.18
3	2015	940	539.46%	1881	2.00
4	2016	1671	77.77%	2649	1.59
5	2017	2516	50.57%	2415	0.96
6	2018	3293	30.88%	1271	0.39
7	2019	4282	30.03%	390	0.09
8	2020	4452	3.97%	89	0.02
9	2021	2577	n/a	8	0.00

Co-occurring concepts

#	Controlled terms	Articles
1	cellular radio	4052
2	MIMO communication	2500
3	telecommunication traffic	2195
4	resource allocation	2079
5	antenna radiation patterns	1778
6	wireless channels	1751
7	radio access networks	1742
8	quality of service	1603
9	Internet of Things	1519
10	Long Term Evolution	1441
11	radiofrequency interference	1400
12	optimisation	1377
13	millimetre wave communication	1367
14	telecommunication network reliability	1346
15	mobile computing	1302
16	telecommunication computing	1235
17	multi-access systems	1230
18	telecommunication power management	1155
19	array signal processing	1127
20	cloud computing	1115

Total terms : 2733

#	Subject classifications	Articles
1	B6000 - Communications	19538
2	B6200 - Telecommunication	19501
3	B6250 - Radio links and equipment	19196
4	B6250F - Mobile radio systems	19085
5	B6100 - Information and communication theory	7610
6	B0000 - General topics, engineering mathematics and materials science	7340
7	B5000 - Electromagnetic fields	6449
8	B5200 - Electromagnetic waves, antennas and propagation	6437
9	B0200 - Engineering mathematics and mathematical techniques	6286
10	B6150 - Communication system theory	4275
11	B5270 - Antennas	4009
12	B6210 - Telecommunication applications	3579
13	B0240 - Probability and statistics	3293
14	C6000 - Computer software	3159
15	B6120 - Modulation and coding methods	3061
16	C5000 - Computer hardware	2959
17	C6100 - Software techniques and systems	2886
18	B6210L - Computer communications	2741
19	B5270D - Antenna arrays	2591
20	B0260 - Optimisation techniques	2584

Total codes : 993

Top organisations

#	Organisations	Articles
1	Beijing University of Posts and Telecommunications Beijing, China academic	772
2	University of Electronic Science and Technology of China Chengdu, China academic	351
3	Xidian University Xian, China academic	292
4	Southeast University Nanjing, China academic	286
5	Ericsson AB Stockholm, Sweden corporate	284
6	Nokia Oy Espoo, Finland corporate	276
7	Tsinghua University Beijing, China academic	275
8	Aalborg Universitet Aalborg, Denmark academic	256
9	Huawei Technologies Co Ltd Shenzhen, China corporate	256
10	Oulun Yliopisto Oulu, Finland academic	247

#	Organisations	Articles
11	Aalto-yliopisto Aalto, Finland academic	225
12	Electronics and Telecommunications Research Institute Daejeon, South Korea academic	201
13	Beijing Jiaotong University Beijing, China academic	193
14	Samsung Group Seoul, South Korea corporate	183
15	University of Surrey Guildford, UK academic	159
16	Georgia Institute of Technology Atlanta, USA academic	158
17	Kabushiki Kaisha NTT DoCoMo Chiyoda-ku, Japan corporate	157
18	Universidad Carlos III de Madrid Madrid, Spain academic	154
19	Chalmers tekniska hogskola Goteborg, Sweden academic	153
20	Huazhong University of Science and Technology Wuhan, China academic	153

Total organisations : 3021

Journals

#	Journal	Articles
1	IEEE Access	1220
2	arXiv	625
3	IEEE Transactions on Vehicular Technology	289
4	IEEE Transactions on Wireless Communications	206
5	IEEE Journal on Selected Areas in Communications	174
6	IEEE Communications Magazine	168
7	IEEE Transactions on Antennas and Propagation	168
8	IEEE Wireless Communications	144
9	IEEE Network	133
10	IEEE Communications Letters	131
11	IEEE Transactions on Communications	121
12	IEEE Antennas and Wireless Propagation Letters	119
13	IEEE Internet of Things Journal	119
14	IEEE Transactions on Microwave Theory and Techniques	110
15	Electronics	108
16	Journal of Physics: Conference Series	103
17	China Communications	102
18	Sensors	98
19	IEEE Wireless Communications Letters	96
20	Transactions on Emerging Telecommunications Technologies	93

Total journals : 503

Conferences

#	Conference	Articles
1	2018 IEEE Global Communications Conference (GLOBECOM)	91
2	2019 IEEE Global Communications Conference (GLOBECOM)	88
3	2020 14th European Conference on Antennas and Propagation (EuCAP)	77
4	ICC 2019 - 2019 IEEE International Conference on Communications (ICC). Proceedings	75
5	2019 IEEE 90th Vehicular Technology Conference (VTC2019-Fall). Proceedings	74
6	ICC 2020 - 2020 IEEE International Conference on Communications (ICC). Proceedings	73
7	2017 IEEE 86th Vehicular Technology Conference (VTC-Fall). Proceedings	70
8	2021 IEEE 93rd Vehicular Technology Conference (VTC2021-Spring)	68
9	2019 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting	67
10	2017 IEEE International Conference on Communications (ICC). Proceedings	66
11	2018 IEEE International Conference on Communications (ICC)	66
12	2020 IEEE Global Communications Conference (GLOBECOM 2020)	66
13	2017 IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)	65
14	2020 IEEE 91st Vehicular Technology Conference (VTC2020-Spring)	64
15	GLOBECOM 2017 - 2017 IEEE Global Communications Conference	61
16	2020 IEEE 3rd 5G World Forum (5GWF)	59
17	2018 IEEE 29th Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)	57
18	2019 IEEE 2nd 5G World Forum (5GWF)	57
19	2019 13th European Conference on Antennas and Propagation (EuCAP)	56
20	2021 15th European Conference on Antennas and Propagation (EuCAP)	54

Total conferences : 3084

Related controlled terms

#	Broader terms	Articles
1	mobile radio	15012

Total terms : 1

#	Narrower terms	Articles
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Total terms : 0

#	Related terms	Articles
1	cellular radio	28467
2	4G mobile communication	3649
3	packet radio networks	2172
4	6G mobile communication	677
5	nonorthogonal multiple access	600

Total terms : 5

Related Subject classifications

#	Subject classifications
1	B6250F - Mobile radio systems
2	E3644L - Communications equipment manufacturing

Total codes : 2