

Gokhan Mumcu

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidically Reconfigured Wideband Frequency-Tunable Liquid-Metal Monopole Antenna. IEEE Transactions on Antennas and Propagation, 2016, 64, 2572-2576.	5.1	88
2	Multilayer Stretchable Conductors on Polymer Substrates for Conformal and Reconfigurable Antennas. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 603-606.	4.0	49
3	Microfluidically Controlled Frequency-Tunable Monopole Antenna for High-Power Applications. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 226-229.	4.0	43
4	Compact 2 \times 2 Coupled Double Loop GPS Antenna Array Loaded With Broadside Coupled Split Ring Resonators. IEEE Transactions on Antennas and Propagation, 2013, 61, 3000-3008.	5.1	40
5	Microfluidic Based Ka-Band Beam-Scanning Focal Plane Array. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1638-1641.	4.0	33
6	Miniaturization of a Spiral Antenna Using Periodic Z-Plane Meandering. IEEE Transactions on Antennas and Propagation, 2015, 63, 1843-1848.	5.1	33
7	Dual-Band Miniature Coupled Double Loop GPS Antenna Loaded With Lumped Capacitors and Inductive Pins. IEEE Transactions on Antennas and Propagation, 2013, 61, 2904-2910.	5.1	32
8	Compact and Wideband MMIC Phase Shifters Using Tunable Active Inductor-Loaded All-Pass Networks. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1047-1057.	4.6	32
9	Mm-Wave Beam Steering Antenna With Reduced Hardware Complexity Using Lens Antenna Subarrays. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1603-1607.	4.0	32
10	Microfluidically Reconfigurable Reflection Phase Shifter. IEEE Microwave and Wireless Components Letters, 2018, 28, 684-686.	3.2	21
11	Small artificial magnetic conductor backed log ϵ -periodic microstrip patch antenna. IET Microwaves, Antennas and Propagation, 2013, 7, 1137-1144.	1.4	19
12	Microfluidically Reconfigurable Metallized Plate Loaded Frequency-Agile RF Bandpass Filters. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 158-165.	4.6	19
13	Lumped Circuit Models for Degenerate Band Edge and Magnetic Photonic Crystals. IEEE Microwave and Wireless Components Letters, 2010, 20, 4-6.	3.2	17
14	Microfluidically Reconfigurable Microstrip Line Combine Filters With Wide Frequency Tuning Capabilities. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3561-3568.	4.6	16
15	Surface Integral Equation Solutions for Modeling 3-D Uniaxial Media Using Closed-Form Dyadic Green's Functions. IEEE Transactions on Antennas and Propagation, 2008, 56, 2381-2388.	5.1	14
16	Passive Feed Network Designs for Microfluidic Beam-Scanning Focal Plane Arrays and Their Performance Evaluation. IEEE Transactions on Antennas and Propagation, 2015, 63, 3452-3464.	5.1	14
17	Highly reconfigurable bandpass filters using microfluidically controlled metallized glass plates. , 2014, , .		12
18	Integrated Actuation of Microfluidically Reconfigurable mm-Wave SPST Switches. IEEE Microwave and Wireless Components Letters, 2019, 29, 541-544.	3.2	10

#	ARTICLE	IF	CITATIONS
19	Lens Antenna Subarrays in mmWave Hybrid MIMO Systems. IEEE Access, 2020, 8, 216634-216644.	4.2	10
20	Silicon Carbide and MRI: Towards Developing a MRI Safe Neural Interface. Micromachines, 2021, 12, 126.	2.9	10
21	Millimeter-Wave Beam-Steering Focal Plane Arrays With Microfluidically Switched Feed Networks. IEEE Transactions on Antennas and Propagation, 2018, 66, 7424-7429.	5.1	9
22	Frequency and Bandwidth Tunable mm-Wave Hairpin Bandpass Filters Using Microfluidic Reconfiguration With Integrated Actuation. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3756-3768.	4.6	9
23	3D Printed Wideband Multilayered Dual-Polarized Stacked Patch Antenna With Integrated MMIC Switch. IEEE Open Journal of Antennas and Propagation, 2021, 2, 38-48.	3.7	9
24	A Biocompatible SiC RF Antenna for In-Vivo Sensing Applications. Materials Research Society Symposia Proceedings, 2012, 1433, 119.	0.1	8
25	Phased Array Antenna Element with Embedded Cavity and MMIC using Direct Digital Manufacturing. , 2019, , .		8
26	A Spatially Adaptive Antenna Array for Mm-Wave Wireless Channel Control With Microfluidics Based Reconfiguration. IEEE Access, 2020, 8, 182898-182907.	4.2	7
27	Printed coupled lines with lumped loads for realizing degenerate band edge and magnetic photonic crystal modes. , 2008, , .		6
28	Partially coupled microstrip lines for printed antenna miniaturization. , 2009, , .		5
29	Low-loss wideband feed networks for high gain microfluidic beam-scanning focal plane arrays. , 2016, , .		5
30	Optimum broadband E-patch antenna design with Taguchi method. Journal of Electromagnetic Waves and Applications, 2016, 30, 915-927.	1.6	5
31	Small coupled double loop antennas for dual band GPS arrays. , 2011, , .		4
32	Wideband Ku-band antennas using multi-layer direct digital manufacturing. , 2017, , .		4
33	Arraymetrics: Authentication Through Chaotic Antenna Array Geometries. IEEE Communications Letters, 2021, 25, 1801-1804.	4.1	4
34	Conductivity Improvement of Microdispensed Microstrip Lines and Grounded Coplanar Waveguides Using Laser Micromachining. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 2129-2132.	2.5	4
35	Mm-Wave Beam Steering Antenna Based on Extended Hemispherical Lens Antenna Subarrays. , 2020, , .		4
36	Millimeter-Wave Wireless Channel Control Using Spatially Adaptive Antenna Arrays. IEEE Communications Letters, 2017, 21, 680-683.	4.1	3

#	ARTICLE	IF	CITATIONS
37	An 18–26 GHz range calibrated linear synthetic aperture radar prototype suitable for security applications. , 2018, , .		3
38	Microfluidically reconfigurable antennas. , 2018, , 203-241.		3
39	A miniature, broadband, non-dispersive phase shifter based on CRLH TL unit cells. , 2012, , .		2
40	Microfluidically controlled metalized plate based frequency reconfigurable monopole for high power RF applications. , 2015, , .		2
41	2D beam scanning focal plane array using microfluidic reconfiguration techniques. , 2014, , .		1
42	Circularly polarised printed antenna miniaturised using complementary split-ring resonators and reactive pin loading. IET Microwaves, Antennas and Propagation, 2015, 9, 118-124.	1.4	1
43	Microfluidic Switches with Integrated Actuation for Mm-Wave Beam-Steering Arrays. , 2019, , .		1
44	Time Delay Unit Architecture Optimization for Phased Antenna Arrays Using Integer Linear Programming. IEEE Transactions on Antennas and Propagation, 2022, 70, 9347-9356.	5.1	1
45	Energy and Spectral-Efficient Lens Antenna Subarray Design in MmWave MIMO Systems. IEEE Access, 2022, 10, 75176-75185.	4.2	1
46	Corrections to "Surface Integral Equation Solutions for Modeling 3D Uniaxial Media Using Closed Form Dyadic Green's Functions". IEEE Transactions on Antennas and Propagation, 2009, 57, 4018-4018.	5.1	0
47	An extended-hemispherical silicon lens backed 100GHz focal plane array with beam-tilted pixels. , 2012, , .		0
48	Performance of miniature GPS arrays loaded with SRRs. , 2012, , .		0
49	High resolution surface imaging arrays interrogated with microfluidically controlled metalized plates. , 2014, , .		0
50	Low Complexity Beam Steering Antenna Array Using Beamforming Network Subarrays. , 2022, , .		0
51	Packaging of a Beamforming IC by Laser Enhanced Direct Print Additive Manufacturing (LE-DPAM). , 2022, , .		0