

Mohammad Ali

List of Publications by Year in descending order

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64
papers

901
citations

567281

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501196

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64
all docs

64
docs citations

64
times ranked

873
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Power Transmission to a Buried Sensor in Concrete. IEEE Sensors Journal, 2007, 7, 1573-1577.	4.7	110
2	A Miniature Energy Harvesting Device for Wireless Sensors in Electric Power System. IEEE Sensors Journal, 2010, 10, 1249-1258.	4.7	97
3	Novel Wideband Directional Dipole Antenna on a Mushroom Like EBG Structure. IEEE Transactions on Antennas and Propagation, 2008, 56, 1242-1250.	5.1	91
4	A Reconfigurable Stacked Microstrip Patch Antenna for Satellite and Terrestrial Links. IEEE Transactions on Vehicular Technology, 2007, 56, 426-435.	6.3	60
5	MEMS Reconfigurable Broadband Patch Antenna for Conformal Applications. IEEE Transactions on Antennas and Propagation, 2018, 66, 2770-2778.	5.1	48
6	Concrete Moisture Content Measurement Using Interdigitated Near-Field Sensors. IEEE Sensors Journal, 2010, 10, 1243-1248.	4.7	44
7	High-Gain Pattern Reconfigurable MIMO Antenna Array for Wireless Handheld Terminals. IEEE Transactions on Antennas and Propagation, 2016, 64, 4306-4315.	5.1	33
8	Small printed integrated inverted-F antenna for Bluetooth application. Microwave and Optical Technology Letters, 2002, 33, 347-349.	1.4	32
9	A Broadband High-Gain Bi-Layer LPDA for UHF Conformal Load-Bearing Antenna Structures (CLASs) Applications. IEEE Transactions on Antennas and Propagation, 2015, 63, 2359-2364.	5.1	32
10	A Miniature Implanted Inverted-F Antenna for GPS Application. IEEE Transactions on Antennas and Propagation, 2009, 57, 1854-1858.	5.1	30
11	A 900 MHz Beam Steering Parasitic Antenna Array for Wearable Wireless Applications. IEEE Transactions on Antennas and Propagation, 2013, 61, 4520-4527.	5.1	29
12	Design and Application of Surface Wave Sensors for Nonintrusive Power Line Fault Detection. IEEE Sensors Journal, 2013, 13, 339-347.	4.7	29
13	Elevation Plane Beam Scanning of a Novel Parasitic Array Radiator Antenna for 1900 MHz Mobile Handheld Terminals. IEEE Transactions on Antennas and Propagation, 2010, 58, 3344-3352.	5.1	28
14	Proximity Coupled Interdigitated Sensors to Detect Insulation Damage in Power System Cables. IEEE Sensors Journal, 2007, 7, 1589-1596.	4.7	27
15	Ultra-Thin UHF Broadband Antenna on a Non-Uniform Aperiodic (NUA) MetaSurface. IEEE Antennas and Propagation Magazine, 2015, 57, 167-180.	1.4	18
16	A Miniature Spiral Diversity Antenna System With High Overall Gain Coverage and Low SAR. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 49-52.	4.0	14
17	A MEMS reconfigurable pixel microstrip patch antenna for conformal load bearing antenna structures (CLAS) concept. , 2014, , .		14
18	Isolation improvement of a two-port PIFA for MIMO using a planar EBG ground. Microwave and Optical Technology Letters, 2020, 62, 737-742.	1.4	12

#	ARTICLE	IF	CITATIONS
19	A novel wearable antenna array for 2.45 GHz WLAN application. , 2011, , .		11
20	Simple empirical formulas to estimate the dielectric constant and conductivity of concrete. Microwave and Optical Technology Letters, 2019, 61, 386-390.	1.4	11
21	A new method to estimate the average dielectric constants of aged power cables. Journal of Electromagnetic Waves and Applications, 2014, 28, 777-789.	1.6	10
22	Engineered smart substrate with embedded patterned permalloy thin film for radio frequency applications. Journal of Applied Physics, 2015, 117, 17B709.	2.5	10
23	Reflection and transmission properties of embedded dipoles and PIFAs inside Concrete at 915 MHz. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	9
24	A Study of 13.5-MHz Coupled-Loop Wireless Power Transfer Under Concrete and Near Metal. IEEE Sensors Journal, 2018, 18, 9848-9856.	4.7	8
25	Simulation and Experimental Results of Interdigital Capacitor (IDC) Sensors to Monitor Insulation Degradation of Cables. , 2019, , .		6
26	A 5 GHz beam steering array for portable wireless MIMO application. , 2014, , .		5
27	Aperture coupled MEMS reconfigurable pixel patch antenna for conformal load bearing antenna structures (CLAS). , 2014, , .		5
28	Flexible Fabric-Based IDC Sensors for Conformal Curved Surface Applications. IEEE Sensors Journal, 2021, 21, 812-820.	4.7	5
29	Body-wearable beam steering antenna array for 5.2 GHz WLAN applications. , 2012, , .		4
30	Electrically Small Broadband VHF/UHF Planar Antenna Matched Using a Non-Foster Circuit. Microwave and Optical Technology Letters, 2013, 55, 2494-2497.	1.4	4
31	Capacity Enhancement of Indoor 5G mmWave Communication by Beam Steering and Narrowing. , 2018, , .		4
32	Microscopic level modeling of induction welding heating mechanisms in thermoplastic composites. Journal of Thermoplastic Composite Materials, 2023, 36, 1017-1033.	4.2	4
33	Full-Wave and Circuit-Based Simulations of Cable Insulation Aging/Damage Using Time-Frequency Domain Reflectometry. , 2021, , .		4
34	Superstrate configurations for a MEMS reconfigurable pixelated patch antenna for CLAS. , 2015, , .		3
35	Conformal direct written antenna on structural composites. , 2015, , .		3
36	Three-Dimensional Printed Dielectric Substrates for Radio Frequency Applications. Journal of Electronic Packaging, Transactions of the ASME, 2017, 139, .	1.8	3

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37	A Simple Technique for EBG Design for Monopole Antenna Isolation Improvement. , 2019, , .		3
38	Printed Dipole MIMO Antenna for Wireless Handheld Terminals. , 2020, , .		3
39	A broadband directional circularly polarized spiral antenna on EBG structure. Journal of Electromagnetic Waves and Applications, 2020, 34, 1563-1585.	1.6	3
40	Cable Insulation Aging Simulation. , 2021, , .		3
41	A double meander PIFA with a parasitic metal box for wideband 4G mobile phones. , 2011, , .		2
42	Joint time-frequency optimized reference for surface wave reflectometry-based insulation health assessment. , 2012, , .		2
43	Temperature Rise Induced by Wire and Planar Antennas in a High-Resolution Human Head Model. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 288-298.	2.2	2
44	Surface wave propagation measurements in unshielded XLPE power cables. , 2013, , .		2
45	A broadband VHF-UHF Yagi-Uda end-fire array. , 2013, , .		2
46	A pixelated pattern reconfigurable Yagi-Uda array for conformal loadbearing antenna structure (CLAS). , 2014, , .		2
47	Effect of heterogeneity in additively manufactured dielectric structures on RF response of microstrip patch antennas. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21234.	1.2	2
48	Modified EBG Design Circuit Model for Isolation Improvement Between Monopole Antennas. , 2019, , .		2
49	EBG design and analysis for wideband isolation improvement between aircraft blade monopoles. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22046.	1.2	2
50	Frequency/Pattern Reconfigurable Printed Monopole MIMO Antenna for Handheld Devices. , 2021, , .		2
51	Beam Steering MIMO Antenna for Mobile Handsets. , 2021, , .		2
52	Non-Conductor-Contact Surface Wave Reflectometry for Cable Insulation Damage Detection. IEEE Sensors Journal, 2022, 22, 11065-11074.	4.7	2
53	Broadband coplanar waveguide-fed slot antenna for wireless local area networks and microwave imaging applications. Microwave and Optical Technology Letters, 2007, 49, 846-852.	1.4	1
54	A multi-element enhanced bandwidth PIFA for beam steering in a mobile phone at 1900 MHz. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	1

#	ARTICLE	IF	CITATIONS
55	A broadband UHF antenna on a non-uniform aperiodic (NUA) EBG surface. , 2013, , .		1
56	A high-gain beam steering fabric-based array for body-worn wireless applications. , 2015, , .		1
57	VHF antenna for airfoil structural integration. , 2016, , .		1
58	A thin switched beam parasitic antenna array on planar EBG for 2.4 GHz wireless application. , 2016, , .		1
59	A broadband high-gain aperture coupled patch array for communication and radar applications. , 2017, , .		1
60	Analysis of structural effects on conformal antenna performance. , 2017, , .		1
61	Temperature rise in an anatomical human head model due to 2.45 and 3.7 GHz inverted-F antennas. , 2011, , .		0
62	Non-contact surface wave sensing of wire fault precursors. , 2015, , .		0
63	Wireless power delivery under concrete for sensors. , 2016, , .		0
64	Partially overlapping filtered multitone with reconfigurable antennas in uncoordinated networks. Physical Communication, 2017, 25, 249-258.	2.1	0