

Majid Manteghi

List of Publications by Year in descending order

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106
papers

1,593
citations

361413

20
h-index

330143

37
g-index

108
all docs

108
docs citations

108
times ranked

1120
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Parametric Impedance Matching for Small Antennas Using the Bode-Fano Limit: Improving on Chu's limit for loaded small antennas. IEEE Antennas and Propagation Magazine, 2022, 64, 55-68.	1.4	6
2	Letting Robocars See Around Corners: Using several bands of radar at once can give cars a kind of second sight. IEEE Spectrum, 2022, 59, 36-41.	0.7	0
3	New Way of Generating Electromagnetic Waves. IEEE Transactions on Antennas and Propagation, 2021, 69, 6383-6390.	5.1	6
4	Design of a Broadband High-Gain End-Fed Coaxial Collinear Antenna. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1770-1774.	4.0	5
5	New Approach on Generating Electromagnetic Waves for Transcranial Magnetic Stimulation. , 2021, , .		1
6	The Permanent Magnet Based Reluctance Modulated VLF Transmitter: An Equivalent Circuit Analysis. , 2021, , .		0
7	Flexible Multi-Material Fibers for Distributed Pressure and Temperature Sensing. Advanced Functional Materials, 2020, 30, 1908915.	14.9	48
8	Energy Harvesting Long-Range Marine Communication. , 2020, , .		8
9	Friendship and Electromagnetics: In Memory of Professors Pedram Mousavi and Mojgan Daneshmand. , 2020, , .		0
10	Low-Noise Impedance Matching Technique for Small Antennas Based on a Parametric Amplifier. , 2020, , .		1
11	A Low-Frequency Motionless Magnetic Antenna Based on Permanent Magnet. , 2020, , .		2
12	Remote Antenna Impedance Measurement. , 2020, , .		2
13	An Antenna System for Autonomous Underwater Vehicle. , 2019, , .		0
14	An Active Cavity-Backed Slot Antenna Based on a Parametric Amplifier. IEEE Transactions on Antennas and Propagation, 2019, 67, 6325-6333.	5.1	5
15	A Self-Sustaining Maritime Mesh Network. , 2019, , .		6
16	Fundamental Limits, Bandwidth, and Information Rate of Electrically Small Antennas: Increasing the Throughput of an Antenna Without Violating the Thermodynamic Q-Factor. IEEE Antennas and Propagation Magazine, 2019, 61, 14-26.	1.4	30
17	Design of a Wideband Coaxial Collinear Antenna. , 2019, , .		5
18	Simultaneous Transmit and Receive (STAR): Circulators Versus Nonreciprocal Antennas. , 2019, , .		3

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19	Electrically small naturally circularly polarised antenna. IET Microwaves, Antennas and Propagation, 2018, 12, 641-646.	1.4	2
20	Simultaneously Matching a N-Port Network. , 2018, , .		2
21	A Parametric Amplifier Slot Antenna. , 2018, , .		3
22	Small Antennas Remote Impedance Measurement Using Electrostatic Discharge. IEEE Transactions on Antennas and Propagation, 2017, 65, 44-51.	5.1	6
23	An electrically small antenna concept design for transmitting a baseband signal. , 2017, , .		3
24	A navigation and positining system for unmanned underwater vehicles based on a mechanical antenna. , 2017, , .		13
25	Electromagnetic Shielding Effectiveness of a Hybrid Carbon Nanotube/Glass Fiber Reinforced Polymer Composite. Journal of Engineering Materials and Technology, Transactions of the ASME, 2016, 138, .	1.4	20
26	An electrically small antenna for underwater applications. , 2016, , .		2
27	A Wideband Electrically Small Transient-State Antenna. IEEE Transactions on Antennas and Propagation, 2016, 64, 1201-1208.	5.1	22
28	Mathematical Representation of Scattered Fields from Chipless RFID Tags. , 2015, , 25-66.		0
29	Methods of transmitting a wideband signal through an electrically small antenna. , 2015, , .		2
30	A compact multi-resonance antenna for wideband/ultra wideband applications. , 2015, , .		0
31	Accurate Extraction of Early-/Late-Time Responses Using Short-Time Matrix Pencil Method for Transient Analysis of Scatterers. IEEE Transactions on Antennas and Propagation, 2015, 63, 4995-5002.	5.1	22
32	Radio Frequency Identification Systems. , 2015, , 1-23.		2
33	On the Application of Short-Time Matrix Pencil Method for Wideband Scattering From Resonant Structures. IEEE Transactions on Antennas and Propagation, 2015, 63, 328-335.	5.1	12
34	Design of Chipless RFID Tags Based on Characteristic Mode Theory (CMT). IEEE Transactions on Antennas and Propagation, 2015, 63, 711-718.	5.1	32
35	Chipless RFID. , 2015, , .		29
36	Identification of Chipless RFID Tags in the Reader. , 2015, , 95-126.		2

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37	INTRA-BODY PROPAGATION CHANNEL INVESTIGATION USING ELECTRICALLY COUPLED LOOP ANTENNA. Progress in Electromagnetics Research M, 2014, 40, 57-67.	0.9	5
38	Intra and inter-body cognitive communication system. , 2014, , .		2
39	On the Study of the Near-Fields of Electric and Magnetic Small Antennas in Lossy Media. IEEE Transactions on Antennas and Propagation, 2014, 62, 6491-6495.	5.1	46
40	A simple wireless power transfer scheme for implanted devices. , 2014, , .		1
41	Self-contained compact transmitter for high-rate data transmission. Electronics Letters, 2014, 50, 316-318.	1.0	6
42	Performance of Electrically Coupled Loop Antenna inside human body at different frequency bands. , 2014, , .		4
43	A new technique for high data-rate transmission using narrowband antennas. , 2014, , .		1
44	Study of coupling efficiency of wireless Power Transfer systems in implanted applications. , 2014, , .		0
45	Time-domain analysis of high-Q antennas. , 2014, , .		0
46	A minimized architecture for transmitting high-rate data through a small antenna. , 2014, , .		0
47	A New Technique for Positioning of chipless RFID tags. , 2014, , .		2
48	On the application of characteristic modes for the design of chipless RFID tags. , 2014, , .		6
49	Path Loss inside human body using Electrically Coupled Loop Antenna at different frequency bands. , 2014, , .		3
50	Complex-Natural-Resonance-Based Design of Chipless RFID Tag for High-Density Data. IEEE Transactions on Antennas and Propagation, 2014, 62, 898-904.	5.1	111
51	A Space-Time Frequency Anticollision Algorithm for Identifying Chipless RFID Tags. IEEE Transactions on Antennas and Propagation, 2014, 62, 1425-1432.	5.1	38
52	Phased Array Bandwidth Enhancement Using a Novel Sampling Scheme. IEEE Transactions on Antennas and Propagation, 2014, 62, 1983-1990.	5.1	1
53	Transient Characteristics of Small Antennas. IEEE Transactions on Antennas and Propagation, 2014, 62, 2418-2429.	5.1	17
54	Time-frequency analysis of the scattered signal from chipless RFID tags. , 2014, , .		2

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55	Electrically Coupled Loop Antenna as an implanted antenna. , 2014, , .		0
56	A new detection technique for identifying chipless RFID tags. , 2014, , .		1
57	Wideband direct antenna modulation using high-Q antennas. , 2014, , .		0
58	A compact directly-excited transmitter for wideband data transmission. , 2014, , .		0
59	Transient analysis of electrically small antennas. , 2014, , .		0
60	A Space-Frequency Technique for Chipless RFID Tag Localization. IEEE Transactions on Antennas and Propagation, 2014, 62, 5790-5797.	5.1	31
61	PERFORMANCE OF AN IMPLANTED ELECTRICALLY COUPLED LOOP ANTENNA INSIDE HUMAN BODY. Progress in Electromagnetics Research, 2014, 145, 195-202.	4.4	19
62	A new sampling scheme for digital phased arrays. , 2013, , .		0
63	Short-Time Matrix Pencil Method for Chipless RFID Detection Applications. IEEE Transactions on Antennas and Propagation, 2013, 61, 2801-2806.	5.1	83
64	A Novel Technique for a Low-Cost Digital Phased Array Design. IEEE Transactions on Antennas and Propagation, 2013, 61, 3495-3501.	5.1	4
65	Electrically coupled loop antenna as a dual for the planar invertedâ€” antenna. Microwave and Optical Technology Letters, 2013, 55, 1409-1412.	1.4	19
66	Integration of Carbon Nanotubes Into a Fiberglass Reinforced Polymer Composite and its Effects on Electromagnetic Shielding and Mechanical Properties. , 2013, , .		2
67	A low profile multi-bit chipless RFID tag. , 2013, , .		4
68	A new anti-collision algorithm for identifying chipless RFID tags. , 2013, , .		10
69	Impulse response and transient near-field of a Hertzian dipole. , 2013, , .		0
70	A new resonator for high efficiency wireless power transfer. , 2013, , .		1
71	A reconfigurable switched antenna for multi-band applications. , 2013, , .		0
72	A circuit model for the PIFA. , 2013, , .		1

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73	Using transient properties of a tunable narrowband antenna to realize a dual-band antenna. , 2013, , .		0
74	A WIDEBAND FREQUENCY-SHIFT KEYING MODULATION TECHNIQUE USING TRANSIENT STATE OF A SMALL ANTENNA. Progress in Electromagnetics Research, 2013, 143, 421-445.	4.4	32
75	A tunable planar inverted-f antenna for digital video broadcast-handheld applications. Microwave and Optical Technology Letters, 2012, 54, 2635-2638.	1.4	2
76	Application of singularity expansion method for monitoring the deployment of arterial stents. Microwave and Optical Technology Letters, 2012, 54, 2241-2246.	1.4	8
77	Application of singularity expansion method in estimating size of a stent implanted in the artery. , 2011, , .		2
78	A space-time-frequency target identification technique for chipless RFID applications. , 2011, , .		14
79	Embedded Singularity Chipless RFID Tags. IEEE Transactions on Antennas and Propagation, 2011, 59, 3961-3968.	5.1	70
80	Bandwidth enhancement using nonlinear inductors. , 2011, , .		3
81	Reactive near field magnetic coupling utilizing a staggered phased array. , 2011, , .		2
82	Electromagnetic power transportation using a smart antenna array. , 2010, , .		2
83	Non-LTI systems, a new frontier in electromagnetics theory. , 2010, , .		6
84	Active RFID for Enhanced Railway Operations. , 2010, , .		5
85	A novel approach to improve noise reduction in the Matrix Pencil Algorithm for chipless RFID tag detection. , 2010, , .		13
86	Pole residue techniques for chipless RFID detection. , 2009, , .		23
87	Antenna miniaturization beyond the fundamental limits using impedance modulation. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	7
88	A Switch-Band Antenna for Software-Defined Radio Applications. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 3-5.	4.0	24
89	Analytical Calculation of Impedance Matching for Probe-Fed Microstrip Patch Antennas. IEEE Transactions on Antennas and Propagation, 2009, 57, 3972-3975.	5.1	24
90	Wideband microstrip patch antenna on a thick substrate. , 2008, , .		9

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91	Frequency notched UWB elliptical dipole tag with multi-bit data scattering properties. , 2007, , .		13
92	A novel miniaturized triband PIFA for MIMO applications. Microwave and Optical Technology Letters, 2007, 49, 724-731.	1.4	35
93	Experiments With Compact Antenna Arrays for MIMO Radio Communications. IEEE Transactions on Antennas and Propagation, 2006, 54, 3239-3250.	5.1	178
94	On the Characterization of a Reflector Impulse Radiating Antenna (IRA): Full-Wave Analysis and Measured Results. IEEE Transactions on Antennas and Propagation, 2006, 54, 812-822.	5.1	18
95	Improved Feeding Structures to Enhance the Performance of the Reflector Impulse Radiating Antenna (IRA). IEEE Transactions on Antennas and Propagation, 2006, 54, 823-834.	5.1	16
96	A novel dual-frequency dual-polarized stacked patch microstrip array feed for remote sensing reflector antennas. Microwave and Optical Technology Letters, 2006, 48, 1250-1258.	1.4	5
97	A novel lightweight dual-frequency dual-polarized sixteen-element stacked patch microstrip array antenna for soil-moisture and sea-surface-salinity missions. IEEE Antennas and Propagation Magazine, 2006, 48, 33-46.	1.4	25
98	Multipoint characteristics of a wide-band cavity backed annular patch antenna for multipolarization operations. IEEE Transactions on Antennas and Propagation, 2005, 53, 466-474.	5.1	149
99	A novel UWB feeding mechanism for the TEM horn antenna, reflector IRA, and the vivaldi antenna. IEEE Antennas and Propagation Magazine, 2004, 46, 81-87.	1.4	26
100	A novel feed system for soil moisture spaceborne radar: dual-frequency dual-polarized stacked patch microstrip array. , 2004, , .		3
101	A Parallel Electromagnetic Genetic-Algorithm Optimization (EGO) Application for Patch Antenna Design. IEEE Transactions on Antennas and Propagation, 2004, 52, 2424-2435.	5.1	146
102	A novel UWB feeding mechanism for reflector IRA and TEM horn antenna. , 2004, , .		0
103	Frequency domain measurement of the reflector impulse radiating antenna (IRA). , 2004, , .		0
104	A leaky transmission line method for the analysis of the microstrip line traveling wave antennas. , 0, , .		1
105	Antenna topology impacts on measured MIMO capacity. , 0, , .		5
106	A novel Vivaldi fed reflector impulse radiating antenna (IRA). , 0, , .		4