Marco A Antoniades

List of Publications by Year in Descending Order

66 papers	1,729 citations	18 h-index	41 g-index
84 ext. papers	2,205 ext. citations	3.3 avg, IF	5.1 L-index

#	Paper	IF	Citations
66	Simultaneous User Localization and Identification Using Leaky-Wave Antennas and Backscattering Communications. *IEEE Access*, **2022**, 1-1	3.5	0
65	The first family of application-specific integrated circuits for programmable and reconfigurable metasurfaces.. *Scientific Reports*, **2022**, 12, 5826	4.9	2
64	Compact Folded Leaky-Wave Antenna Radiating a Fixed Beam at Broadside for 5G mm-Wave Applications. *IEEE Antennas and Wireless Propagation Letters*, **2021**, 1-1	3.8	2
63	ASIC-Enabled Reprogrammable Metasurfaces for 5G Applications **2021**,		3
62	Harnessing CPU Electromagnetic Emanations for Resonance-Induced Voltage-Noise Characterization. *IEEE Transactions on Computers*, **2021**, 70, 1338-1349	2.5	0
61	A Multi-Functional Reconfigurable Metasurface: Electromagnetic Design Accounting for Fabrication Aspects. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 1440-1454	4.9	31
60	Dual-Band Compact Rectenna for UHF and ISM Wireless Power Transfer Systems. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 2392-2397	4.9	7
59	Magneto-Electric Dipole Antennas Loaded with Meta-Lens for 5G MIMO Pattern Diversity Applications. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	0
58	An IC-Enabled Metasurface Producing OAM and Pencil Beams **2021**,		2
57	Dynamically Reconfigurable UWB Antenna Using an FET Switch Powered by Wireless RF Harvested Energy. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 5872-5881	4.9	4
56	Toward the Realization of a Programmable Metasurface Absorber Enabled by Custom Integrated Circuit Technology. *IEEE Access*, **2020**, 8, 92986-92998	3.5	12
55	Integrated-Circuit Enabled Adaptive Metasurface Absorber With Independent Tuning of Orthogonal Polarization Planes. *IEEE Access*, **2020**, 8, 50227-50235	3.5	6
54	Dynamically Reconfigurable SIR Filter Using Rectenna and Active Booster. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 1504-1515	4.1	6
53	Intelligent Metasurfaces with Continuously Tunable Local Surface Impedance for Multiple Reconfigurable Functions. *Physical Review Applied*, **2019**, 11,	4.3	67
52	DC voltage boosting technique in radio frequency wireless power transfer systems utilising high PAPR digital modulations. *IET Microwaves, Antennas and Propagation*, **2019**, 13, 2457-2463	1.6	1
51	Through-body Communication Measurements Using Wearable and Implantable Sensor Antennas **2019**,		1
50	UWB antenna with dynamically reconfigurable notch band using rectenna and active booster. *IET Microwaves, Antennas and Propagation*, **2019**, 13, 2046-2052	1.6	4

49	3D Radar Localization via Photonic Chirp Leaky-Wave Antenna Beam Scanning **2019**,		4
48	Reconfigurable Bandwidth Bandpass Filter With Enhanced Out-of-Band Rejection Using $pi $ -Section-Loaded Ring Resonator. *IEEE Microwave and Wireless Components Letters*, **2018**, 28, 28-30	2.6	19
47	Sensing CPU Voltage Noise Through Electromagnetic Emanations. *IEEE Computer Architecture Letters*, **2018**, 17, 68-71	1.8	8
46	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 5773-5782	4.9	6
45	A Compact Reconfigurable NRI-TL Metamaterial Phase Shifter for Antenna Applications. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 1025-1030	4.9	9
44	Leveraging CPU Electromagnetic Emanations for Voltage Noise Characterization **2018**,		6
43	A NRI-TL Metamaterial Leaky-Wave Antenna Radiating at Broadside With Zero Beam-Squinting. *IEEE Antennas and Wireless Propagation Letters*, **2018**, 17, 2223-2227	3.8	12
42	A compact microstrip crossover using NRI-TL metamaterial lines. *Microwave and Optical Technology Letters*, **2018**, 60, 2839-2843	1.2	3
41	On the Use of Tunable Power Splitter for Simultaneous Wireless Information and Power Transfer Receivers. *International Journal of Antennas and Propagation*, **2018**, 2018, 1-12	1.2	1
40	**2017**,		2
39	Conformai wearable monopole antenna backed by a compact EBG structure for body area networks **2017**,		4
38	Miniaturized Planar Yagi Antenna Utilizing Capacitively Coupled Folded Reflector. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 1977-1980	3.8	14
37	Compact EBG-Backed Planar Monopole for BAN Wearable Applications. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 453-463	4.9	88
36	Wideband BPF using quadruple-mode ring resonator loaded with short-circuited stubs and □shaped band-stop sections. *Microwave and Optical Technology Letters*, **2017**, 59, 2316-2320	1.2	2
35	Miniaturization of Planar Yagi Antennas Using Mu-Negative Metamaterial-Loaded Reflector. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 6827-6837	4.9	18
34	Transmission-Line Based Metamaterials in Antenna Engineering **2016**, 377-449		5
33	A high gain EBG backed monopole for MBAN off-body communication **2016**,		2
32	Bandwidth and Directivity Enhancement of Loop Antenna by Nonperiodic Distribution of Mu-Negative Metamaterial Unit Cells. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 3319-3329	4.9	30

31	Compact Wideband Loop Antenna Partially Loaded With Mu-Negative Metamaterial Unit Cells for Directivity Enhancement. *IEEE Antennas and Wireless Propagation Letters*, **2016**, 15, 1893-1896	3.8	18
30	Planar antennas for compact multiband transceivers using a microstrip feedline and multiple open-ended ground slots. *IET Microwaves, Antennas and Propagation*, **2015**, 9, 486-494	1.6	6
29	A Directivity-Band-Dependent Triple-Band and Wideband Dual-Polarized Monopole Antenna Loaded with a Via-Free CRLH Unit Cell. *IEEE Antennas and Wireless Propagation Letters*, **2015**, 14, 855-858	3.8	16
28	Transmission-Line Based Metamaterials in Antenna Engineering **2015**, 1-60		4
27	Broadband planar circularly polarised antenna for ultra-high frequency applications. *IET Microwaves, Antennas and Propagation*, **2014**, 8, 263-271	1.6	7
26	Method of Isolating and Tuning the Two Dominant Modes of a Printed Inverted-F Antenna. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 3420-3426	4.9	10
25	Compact CPW-Fed Planar Monopole Antenna With Wide Circular Polarization Bandwidth. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1295-1298	3.8	45
24	A compact multiband NRI-TL metamaterial-loaded planar antenna for heart failure monitoring **2013** ,		2
23	Method of Decoupling and Independently Tuning the Second Mode of a Microstrip-Fed Slot Antenna Using Series Inductive Loading. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1017-1020	3.8	6
22	Direct quadrature phase shift keying modulation using compact wideband six-port networks. *IET Microwaves, Antennas and Propagation*, **2012**, 6, 854	1.6	5
21	Multiband Compact Printed Dipole Antennas Using NRI-TL Metamaterial Loading. *IEEE Transactions on Antennas and Propagation*, **2012**, 60, 5613-5626	4.9	44
20	A compact crossover using NRI-TL metamaterial lines **2012**,		4
19	A multi-band NRI-TL metamaterial-loaded bow-tie antenna **2011**,		4
18	A compact low-profile high-impedance surface for use as an antenna ground plane **2011**,		2
17	A multiband monopole antenna using a double-tuned wheeler matching network **2010**,		4
16	A Compact Tri-Band Monopole Antenna With Single-Cell Metamaterial Loading. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 1031-1038	4.9	148
15	A Multiband Monopole Antenna With an Embedded Reactance-Cancelling Transmission-Line Matching Network. *IEEE Antennas and Wireless Propagation Letters*, **2010**, 9, 1107-1110	3.8	4
14	A Broadband Dual-Mode Monopole Antenna Using NRI-TL Metamaterial Loading. *IEEE Antennas and Wireless Propagation Letters*, **2009**, 8, 258-261	3.8	70

13	A tri-band compact metamaterial-loaded monopole antenna for WiFi and WiMAX applications. *Digest / IEEE Antennas and Propagation Society International Symposium*, **2009**,		4
12	An Investigation of Printed Franklin Antennas at X-Band Using Artificial (Metamaterial) Phase-Shifting Lines. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 3118-3128	4.9	8
11	A Compact Multiband Monopole Antenna With a Defected Ground Plane. *IEEE Antennas and Wireless Propagation Letters*, **2008**, 7, 652-655	3.8	81
10	A Folded-Monopole Model for Electrically Small NRI-TL Metamaterial Antennas. *IEEE Antennas and Wireless Propagation Letters*, **2008**, 7, 425-428	3.8	101
9	A CPS Leaky-Wave Antenna With Reduced Beam Squinting Using NRI-TL Metamaterials. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 708-721	4.9	62
8	A compact monopole antenna with a defected ground plane for multi-band applications **2008**,		7
7	Antenna Applications of Negative Refractive Index Transmission-Line (NRI-TL) Metamaterials **2008**, 675-736		1
6	Antenna applications of negative-refractive-index transmission-line structures. *IET Microwaves, Antennas and Propagation*, **2007**, 1, 12	1.6	43
5	A negative-refractive-index transmission-line (NRI-TL) leaky-wave antenna with reduced beam squinting **2007**,		6
4	A compact and low-profile metamaterial ring antenna with vertical polarization. *IEEE Antennas and Wireless Propagation Letters*, **2005**, 4, 333-336	3.8	142
3	A broadband series power divider using zero-degree metamaterial phase-shifting lines. *IEEE Microwave and Wireless Components Letters*, **2005**, 15, 808-810	2.6	121
2	A broadband Wilkinson balun using microstrip metamaterial lines. *IEEE Antennas and Wireless Propagation Letters*, **2005**, 4, 209-212	3.8	120
1	Compact linear lead/lag metamaterial phase shifters for broadband applications. *IEEE Antennas and Wireless Propagation Letters*, **2003**, 2, 103-106	3.8	246