Emmanouil M Tentzeris

List of Publications by Citations

333 papers	6,765 citations	44 h-index	69 g-index
392 ext. papers	8,585 ext. citations	3.6 avg, IF	6.4 L-index

#	Paper	IF	Citations
333	RFID Tag and RF Structures on a Paper Substrate Using Inkjet-Printing Technology. *IEEE Transactions on Microwave Theory and Techniques*, **2007**, 55, 2894-2901	4.1	436
332	. *Proceedings of the IEEE*, **2014**, 102, 1649-1666	14.3	376
331	A Compact Dual-Band Rectenna Using Slot-Loaded Dual Band Folded Dipole Antenna. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1634-1637	3.8	138
330	E-WEHP: A Batteryless Embedded Sensor-Platform Wirelessly Powered From Ambient Digital-TV Signals. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 2491-2505	4.1	135
329	A Novel Single-Feed Circular Microstrip Antenna With Reconfigurable Polarization Capability. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 630-638	4.9	128
328	Equivalent-Circuit Analysis of a Broadband Printed Dipole With Adjusted Integrated Balun and an Array for Base Station Applications. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 2180-2184	4.9	113
327	. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 366-379	4.1	111
326	UWB Elliptical Monopoles With a Reconfigurable Band Notch Using MEMS Switches Actuated Without Bias Lines. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 2242-2251	4.9	109
325	A Novel Dual-Band, Dual-Polarized, Miniaturized and Low-Profile Base Station Antenna. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5399-5408	4.9	101
324	Carbon-Nanotube Loaded Antenna-Based Ammonia Gas Sensor. *IEEE Transactions on Microwave Theory and Techniques*, **2011**, 59, 2665-2673	4.1	91
323	A Printed Log-Periodic Koch-Dipole Array (LPKDA). *IEEE Antennas and Wireless Propagation Letters*, **2008**, 7, 456-460	3.8	91
322	A Novel Solar and Electromagnetic Energy Harvesting System With a 3-D Printed Package for Energy Efficient Internet-of-Things Wireless Sensors. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 1831-1842	4.1	89
321	Multi-Layer RF Capacitors on Flexible Substrates Utilizing Inkjet Printed Dielectric Polymers. *IEEE Microwave and Wireless Components Letters*, **2013**, 23, 353-355	2.6	89
320	Paper-Based RFID-Enabled Wireless Platforms for Sensing Applications. *IEEE Transactions on Microwave Theory and Techniques*, **2009**, 57, 1370-1382	4.1	89
319	3D-Printed Origami Packaging With Inkjet-Printed Antennas for RF Harvesting Sensors. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 4521-4532	4.1	86
318	A New High-Gain Microstrip Yagi Array Antenna With a High Front-to-Back (F/B) Ratio for WLAN and Millimeter-Wave Applications. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 298-304	4.9	86
317	Infill-Dependent 3-D-Printed Material Based on NinjaFlex Filament for Antenna Applications. *IEEE Antennas and Wireless Propagation Letters*, **2016**, 15, 1506-1509	3.8	78

316	Ambient RF Energy Harvesting Sensor Device With Capacitor-Leakage-Aware Duty Cycle Control. *IEEE Sensors Journal*, **2013**, 13, 2973-2983	4	78
315	Rational Design of a Printable, Highly Conductive Silicone-based Electrically Conductive Adhesive for Stretchable Radio-Frequency Antennas. *Advanced Functional Materials*, **2015**, 25, 464-470	15.6	75
314	Design and Development of a Novel 3-D Cubic Antenna for Wireless Sensor Networks (WSNs) and RFID Applications. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 3293-3299	4.9	75
313	Fully inkjet-printed microfluidics: a solution to low-cost rapid three-dimensional microfluidics fabrication with numerous electrical and sensing applications. *Scientific Reports*, **2016**, 6, 35111	4.9	74
312	An Origami Reconfigurable Axial-Mode Bifilar Helical Antenna. *IEEE Transactions on Antennas and Propagation*, **2015**, 63, 5897-5903	4.9	74
311	Modified Wilkinson Power Dividers for Millimeter-Wave Integrated Circuits. *IEEE Transactions on Microwave Theory and Techniques*, **2007**, 55, 2439-2446	4.1	71
310	An Inkjet-Printed Microfluidic RFID-Enabled Platform for Wireless Lab-on-Chip Applications. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 4714-4723	4.1	69
309	Inkjet-printed antennas, sensors and circuits on paper substrate. *IET Microwaves, Antennas and Propagation*, **2013**, 7, 858-868	1.6	69
308	Switchable Quad-Band Antennas for Cognitive Radio Base Station Applications. *IEEE Transactions on Antennas and Propagation*, **2010**, 58, 1468-1476	4.9	67
307	Passive wireless smart-skin sensor using RFID-based folded patch antennas. *International Journal of Smart and Nano Materials*, **2011**, 2, 22-38	3.6	67
306	RF MEMS Sequentially Reconfigurable Sierpinski Antenna on a Flexible Organic Substrate With Novel DC-Biasing Technique. *Journal of Microelectromechanical Systems*, **2007**, 16, 1185-1192	2.5	66
305	No Battery Required: Perpetual RFID-Enabled Wireless Sensors for Cognitive Intelligence Applications. *IEEE Microwave Magazine*, **2013**, 14, 66-77	1.2	63
304	Inkjet Printing of Multilayer Millimeter-Wave Yagi-Uda Antennas on Flexible Substrates. *IEEE Antennas and Wireless Propagation Letters*, **2016**, 15, 143-146	3.8	61
303	Multilayer Inkjet Printing of Millimeter-Wave Proximity-Fed Patch Arrays on Flexible Substrates. *IEEE Antennas and Wireless Propagation Letters*, **2013**, 12, 1351-1354	3.8	59
302	. *Proceedings of the IEEE*, **2014**, 102, 1712-1722	14.3	57
301	A Novel Multiband Planar Antenna for GSM/UMTS/LTE/Zigbee/RFID Mobile Devices. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 4209-4214	4.9	54
300	RFID-Based Sensors for Zero-Power Autonomous Wireless Sensor Networks. *IEEE Sensors Journal*, **2014**, 14, 2419-2431	4	53
299	Inkjet-Printed Flexible mm-Wave Van-Atta Reflectarrays: A Solution for Ultralong-Range Dense Multitag and Multisensing Chipless RFID Implementations for IoT Smart Skins. *IEEE Transactions on Microwave Theory and Techniques*, **2016**, 64, 4763-4773	4.1	53

298	Continuous-range tunable multilayer frequency-selective surfaces using origami and inkjet printing. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 13210-13215	11.5	50
297	Octave and Decade Printed UWB Rectifiers Based on Nonuniform Transmission Lines for Energy Harvesting. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 4326-4334	4.1	49
296	A uW Backscatter-Morse-Leaf Sensor for Low-Power Agricultural Wireless Sensor Networks. *IEEE Sensors Journal*, **2018**, 18, 7889-7898	4	49
295	A Shared-Aperture Dual-Band Planar Array With Self-Similar Printed Folded Dipoles. *IEEE Transactions on Antennas and Propagation*, **2013**, 61, 606-613	4.9	49
294	Fully Integrated Passive Front-End Solutions for a V-band LTCC Wireless System. *IEEE Antennas and Wireless Propagation Letters*, **2007**, 6, 285-288	3.8	49
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292	Development of a Cavity-Backed Broadband Circularly Polarized Slot/Strip Loop Antenna With a Simple Feeding Structure. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 312-318	4.9	48
291	Passive Wireless Frequency Doubling Antenna Sensor for Strain and Crack Sensing. *IEEE Sensors Journal*, **2016**, 16, 5725-5733	4	47
290	Conformal Magnetic Composite RFID for Wearable RF and Bio-Monitoring Applications. *IEEE Transactions on Microwave Theory and Techniques*, **2008**, 56, 3223-3230	4.1	46
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285	A Novel Low-Profile Broadband Dual-Frequency Planar Antenna for Wireless Handsets. *IEEE Transactions on Antennas and Propagation*, **2008**, 56, 1155-1162	4.9	40
284	Multilayer Effects on Microstrip Antennas for Their Integration With Mechanical Structures. *IEEE Transactions on Antennas and Propagation*, **2007**, 55, 1051-1058	4.9	40
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269	Development, characterization, and processing of thin and thick inkjet-printed dielectric films. *Organic Electronics*, **2016**, 29, 135-141	3.5	27
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261	Millimeter-wave backscatter: A quantum leap for gigabit communication, RF sensing, and wearables **2017**,		24
260	Exploring 3-D Printing for New Applications: Novel Inkjet- and 3-D-Printed Millimeter-Wave Components, Interconnects, and Systems. *IEEE Microwave Magazine*, **2018**, 19, 57-66	1.2	23
259	First Demonstration of 28 GHz and 39 GHz Transmission Lines and Antennas on Glass Substrates for 5G Modules **2017**,		23
258	Design, Development and Integration of Novel Antennas for Miniaturized UHF RFID Tags. *IEEE Transactions on Antennas and Propagation*, **2009**, 57, 3450-3457	4.9	23
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251	Effect of Permittivity and Permeability of a Flexible Magnetic Composite Material on the Performance and Miniaturization Capability of Planar Antennas for RFID and Wearable Wireless Applications. *IEEE Transactions on Components and Packaging Technologies*, **2009**, 32, 849-858		20
250	E-band characterization of 3D-printed dielectrics for fully-printed millimeter-wave wireless system packaging **2017**,		19
249	A Compact Source load Agnostic Flexible Rectenna Topology for IoT Devices. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 2621-2629	4.9	19
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247	Millimeter-wave ink-jet printed RF energy harvester for next generation flexible electronics **2017**,		18
246	RF characterization of 3D printed flexible materials - NinjaFlex Filaments **2015**,		18
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244	Additively Manufactured mm-Wave Multichip Modules With Fully Printed Smart Encapsulation Structures. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 2716-2724	4.1	17
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242	Leading-Edge and Ultra-Thin 3D Glass-Polymer 5G Modules with Seamless Antenna-to-Transceiver Signal Transmissions **2018**,		17
241	A Novel High-Gain Tetrahedron Origami. *IEEE Antennas and Wireless Propagation Letters*, **2017**, 16, 848-851	3.8	17
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202	Concealable, low-cost paper-printed antennas for WISP-based RFIDs **2011**,		12
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197	A Bidirectional Absorptive Common-Mode Filter Based on Interdigitated Microstrip Coupled Lines for 5G Green Communications. *IEEE Access*, **2020**, 8, 20759-20769	3.5	11
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195	Design and Characterization of Novel Paper-based Inkjet-Printed RFID and Microwave Structures for Telecommunication and Sensing Applications **2007**,		11
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183	Novel uniquely 3D printed intricate Voronoi and fractal 3D antennas **2017**,		9
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