

# John Kimionis

## List of Publications by Year in descending order

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39  
papers

1,261  
citations

687363

13  
h-index

940533

16  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1087  
citing authors

#	ARTICLE	IF	CITATIONS
1	Increased Range Bistatic Scatter Radio. IEEE Transactions on Communications, 2014, 62, 1091-1104.	7.8	262
2	3D-Printed Origami Packaging With Inkjet-Printed Antennas for RF Harvesting Sensors. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4521-4532.	4.6	131
3	Additively Manufactured Nanotechnology and Origami-Enabled Flexible Microwave Electronics. Proceedings of the IEEE, 2015, 103, 583-606.	21.3	79
4	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.	4.6	76
5	Wireless Environmental Sensor Networking With Analog Scatter Radio and Timer Principles. IEEE Sensors Journal, 2014, 14, 3365-3376.	4.7	71
6	Ambient Backscatterers Using FM Broadcasting for Low Cost and Low Power Wireless Applications. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5251-5262.	4.6	61
7	Bistatic backscatter radio for power-limited sensor networks. , 2013, , .		58
8	Single-Antenna Coherent Detection of Collided FMO RFID Signals. IEEE Transactions on Communications, 2012, 60, 756-766.	7.8	53
9	Bistatic backscatter radio for tag read-range extension. , 2012, , .		39
10	Enhancement of RF Tag Backscatter Efficiency With Low-Power Reflection Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 3562-3571.	4.6	38
11	Pulse Shaping: The Missing Piece of Backscatter Radio and RFID. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4774-4788.	4.6	37
12	Millimeter-wave backscatter: A quantum leap for gigabit communication, RF sensing, and wearables. , 2017, , .		37
13	A printed millimetre-wave modulator and antenna array for backscatter communications at gigabit data rates. Nature Electronics, 2021, 4, 439-446.	26.0	36
14	On-Body Long-Range Wireless Backscattering Sensing System Using Inkjet-/3-D-Printed Flexible Ambient RF Energy Harvesters Capable of Simultaneous DC and Harmonics Generation. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5389-5400.	4.6	32
15	Ambient FM backscattering for smart agricultural monitoring. , 2017, , .		28
16	Design and implementation of RFID systems with software defined radio. , 2012, , .		25
17	3D/inkjet-printed origami antennas for multi-direction RF harvesting. , 2015, , .		24
18	Zero-Power Sensors for Smart Objects: Novel Zero-Power Additively Manufactured Wireless Sensor Modules for IoT Applications. IEEE Microwave Magazine, 2018, 19, 32-47.	0.8	21

#	ARTICLE	IF	CITATIONS
19	Backscatter sensor network for extended ranges and low cost with frequency modulators: Application on wireless humidity sensing. , 2013, , .		20
20	Printed Motes for IoT Wireless Networks: State of the Art, Challenges, and Outlooks. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1819-1830.	4.6	17
21	An enhanced-range RFID tag using an ambient energy powered reflection amplifier. , 2014, , .		16
22	Inkjet printed 24 GHz rectenna on paper for millimeter wave identification and wireless power transfer applications. , 2017, , .		14
23	Inventory time reduction in Gen2 with single-antenna separation of FMO RFID signals. , 2011, , .		11
24	RF tag front-end design for uncompromised communication and harvesting. , 2014, , .		10
25	Pushing Inkjet Printing to W-Band: An all-printed 90-GHz beamforming array. , 2018, , .		8
26	Pulse shaping for backscatter radio. , 2016, , .		7
27	Novel inkjet printed modules for sensing, radar and energy harvesting applications. , 2014, , .		6
28	Ambient energy harvesting from two-way talk radio for on-body autonomous wireless sensing network using inkjet and 3D printing. , 2017, , .		6
29	Radar & additive manufacturing technologies: The future of Internet of Things (IoT). , 2018, , .		6
30	Additive manufacturing techniques for origami inspired 4D printed RF components and modules. , 2016, , .		5
31	Inkjet-/3D-/4D-printed autonomous wearable RF modules for biomonitoring, positioning and sensing applications. Proceedings of SPIE, 2017, , .	0.8	5
32	Inkjet-printed reflection amplifier for increased-range Backscatter radio. , 2014, , .		4
33	A Remotely Programmable Modular Testbed for Backscatter Sensor Network Research. Lecture Notes in Electrical Engineering, 2014, , 153-161.	0.4	4
34	Building a Low-Cost Digital Garden as a Telecom Lab Exercise. IEEE Pervasive Computing, 2013, 12, 48-57.	1.3	3
35	Software-defined reader for multi-modal RFID sensing. , 2016, , .		3
36	Origami antennas and packaging using 3D printing technologies. SPIE Newsroom, 0, , .	0.1	3

#	ARTICLE	IF	CITATIONS
37	A fading-resistant method for RFID-antenna structural mode measurement. , 2012, , .		2
38	Additive manufacturing technologies for near-and far-field energy harvesting applications. , 2016, , .		2
39	Inkjet-printed UHF RFID folded dipole antennas for remote sensing applications. , 2014, , .		1