

# Sangkil Kim

## List of Publications by Year in descending order

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56  
papers

1,881  
citations

430874

18  
h-index

454955

30  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2222  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ambient RF Energy-Harvesting Technologies for Self-Sustainable Standalone Wireless Sensor Platforms. Proceedings of the IEEE, 2014, 102, 1649-1666.	21.3	547
2	A Compact Dual-Band Rectenna Using Slot-Loaded Dual Band Folded Dipole Antenna. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1634-1637.	4.0	197
3	Monopole Antenna With Inkjet-Printed EBG Array on Paper Substrate for Wearable Applications. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 663-666.	4.0	140
4	Inkjet-Printed antennas, sensors and circuits on paper substrate. IET Microwaves, Antennas and Propagation, 2013, 7, 858-868.	1.4	100
5	RFID-Based Sensors for Zero-Power Autonomous Wireless Sensor Networks. IEEE Sensors Journal, 2014, 14, 2419-2431.	4.7	80
6	Additively Manufactured Nanotechnology and Origami-Enabled Flexible Microwave Electronics. Proceedings of the IEEE, 2015, 103, 583-606.	21.3	79
7	No Battery Required: Perpetual RFID-Enabled Wireless Sensors for Cognitive Intelligence Applications. IEEE Microwave Magazine, 2013, 14, 66-77.	0.8	74
8	Solar/Electromagnetic Energy Harvesting and Wireless Power Transmission. Proceedings of the IEEE, 2014, 102, 1712-1722.	21.3	74
9	Design and Analysis of Dual Polarized Broadband Microstrip Patch Antenna for 5G mmWave Antenna Module on FR4 Substrate. IEEE Access, 2021, 9, 64306-64316.	4.2	66
10	Inkjet catalyst printing and electroless copper deposition for low-cost patterned microwave passive devices on paper. Electronic Materials Letters, 2013, 9, 669-676.	2.2	51
11	Low-Cost Inkjet-Printed Fully Passive RFID Tags for Calibration-Free Capacitive/Haptic Sensor Applications. IEEE Sensors Journal, 2015, 15, 3135-3145.	4.7	49
12	Fabrication of Fully Inkjet-Printed Vias and SIW Structures on Thick Polymer Substrates. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 486-496.	2.5	46
13	An Inkjet-Printed Solar-Powered Wireless Beacon on Paper for Identification and Wireless Power Transmission Applications. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 4178-4186.	4.6	41
14	Inkjet-Printed Electronics on Paper for RF Identification (RFID) and Sensing. Electronics (Switzerland), 2020, 9, 1636.	3.1	33
15	Origami-Inspired Radiation Pattern and Shape Reconfigurable Dipole Array Antenna at <i>C</i> -Band for CubeSat Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 2697-2705.	5.1	27
16	Inkjet-printed paper-based substrate-integrated waveguide (SIW) components and antennas. International Journal of Microwave and Wireless Technologies, 2013, 5, 197-204.	1.9	22
17	An RFID-enabled inkjet-printed soil moisture sensor on paper for smart agricultural applications. , 2014, , .		22
18	Design of Inkjet-Printed RFID-Based Sensor on Paper: Single- and Dual-Tag Sensor Topologies. Sensors, 2018, 18, 1958.	3.8	22

#	ARTICLE	IF	CITATIONS
19	A Novel Polarization-Independent, Free-Space, Microwave Beam Splitter Utilizing an Inkjet-Printed, 2-D Array Frequency Selective Surface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012, 11, 686-688.	4.0	19
20	Machine Learning Approach for Wirelessly Powered RFID-Based Backscattering Sensor System. <i>IEEE Journal of Radio Frequency Identification</i> , 2020, 4, 186-194.	2.3	19
21	An enhanced-range RFID tag using an ambient energy powered reflection amplifier. , 2014, , .		16
22	Hybrid Printed Energy Harvesting Technology for Self-Sustainable Autonomous Sensor Application. <i>Sensors</i> , 2019, 19, 728.	3.8	14
23	Parylene coated waterproof washable inkjet-printed dual-band antenna on paper substrate. <i>International Journal of Microwave and Wireless Technologies</i> , 2018, 10, 814-818.	1.9	13
24	A novel graphene-based inkjet-printed WISP-enabled wireless gas sensor. , 2012, , .		12
25	Inkjet-printed RFID-enabled sensors on paper for IoT and &#x201C;Smart Skin&#x201D; applications. , 2013, , .		10
26	A Circularly Polarized High-Gain Planar 2 $\bar{A}$ – 2 Dipole-Array Antenna Fed by a 4-Way Gysel Power Divider for WLAN Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 1051-1055.	4.0	10
27	Inkjet printed ultra wideband spiral antenna using integrated balun on liquid crystal polymer (LCP). , 2012, , .		9
28	Towards a Smart Wireless Integrated Module (SWIM) on flexible organic substrates using inkjet printing technology for wireless sensor networks. , 2012, , .		9
29	A novel inkjet-printed passive microfluidic RFID-based sensing platform. , 2013, , .		8
30	Wearable biomonitoring monopole antennas using inkjet printed electromagnetic band gap structures. , 2012, , .		7
31	A flexible hybrid printed RF energy harvester utilizing catalyst-based copper printing technologies for far-field RF energy harvesting applications. , 2015, , .		7
32	Novel inkjet printed modules for sensing, radar and energy harvesting applications. , 2014, , .		6
33	Design and Analysis of a TEM Mode Rectangular Coaxial Waveguide for Mobile 5G Millimeter Wave Antenna Module Applications. <i>Journal of Electromagnetic Engineering and Science</i> , 2020, 20, 169-175.	1.8	6
34	A Low-Complexity I/Q Imbalance Calibration Method for Quadrature Modulator. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2019, 27, 974-977.	3.1	5
35	77 $\hat{A}$ €-GHz z mmWave antenna array on liquid crystal polymer for automotive radar and RF front $\hat{A}$ €nd module. <i>ETRI Journal</i> , 2019, 41, 262-269.	2.0	5
36	An inkjet-printed flexible broadband multilayer SIW coupler for antenna array systems. , 2014, , .		4

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37	On the Optimal Modes for Glucose Droplet Sensing Based on Multi-Modes. IEEE Sensors Journal, 2021, 21, 24048-24055.	4.7	4
38	Wireless Charging of a Metal-Encased Device. IEEE Transactions on Antennas and Propagation, 2022, 70, 654-663.	5.1	4
39	Educational Low-Cost C-Band FMCW Radar System Comprising Commercial Off-the-Shelf Components for Indoor Through-Wall Object Detection. Electronics (Switzerland), 2021, 10, 2758.	3.1	4
40	Inkjet-printed planar antenna for a wireless sensor on paper operating at Wi-Fi frequency. , 2012, , .		3
41	A dual-band retrodirective reflector array on paper utilizing Substrate Integrated Waveguide (SIW) and inkjet printing Technologies for Chipless RFID Tag and Sensor Applications. , 2013, , .		3
42	Ambient energy harvesting from 2-way talk-radio signals for &#x201C;smart&#x201D; meter and display applications. , 2014, , .		3
43	Harvesting wireless signals from two-way talk-radios to power smart meters and displays. , 2014, , .		2
44	Inkjet-printed &#x201C;Zero-Power&#x201D; wireless sensor and power management nodes for IoT and &#x201C;Smart Skin&#x201D; applications. , 2014, , .		2
45	A flexible RF energy harvester using a hybrid printing technology for â€˜stand-aloneâ€™™ wireless sensor platforms. Flexible and Printed Electronics, 2018, 3, 015004.	2.7	2
46	Wideband Dual-Polarized On-Board Antenna for 5G mmWave Mobile Application. , 2022, , .		2
47	A novel inkjet-printed chipless RFID-based passive fluid sensor platform. , 2013, , .		1
48	A Circularly Polarized Planar 2Ã—2 Dipole Array Antenna Fed by a Modified 4-way Gysel Power Divider. , 2019, , .		1
49	Miniaturized Unit Cell Design and Verification of Multi-Functional Transmissive Meta-Surface for S-Band Radar. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2022, 33, 12-19.	0.3	1
50	Low-cost flexible RFID tag for on-metal applications. , 2014, , .		0
51	Augmenting a Patch Antenna with a Hybrid Particle Swarm Optimization Algorithm. , 2019, , .		0
52	2D Indoor Direction and Location Finding System Based on Gradient Descent Machine Learning Algorithm. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2021, 32, 289-296.	0.3	0
53	Design of a 3D T-Shaped Dipole Antenna Inspired by Origami and Kirigami Theory. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2021, 32, 690-698.	0.3	0
54	Backfire suppressed low profile aperture coupled stacked patch antenna backed by a high impedance surface (HIS) reflector for UHF RFID reader applications. International Journal of Microwave and Wireless Technologies, 0, , 1-6.	1.9	0

#	ARTICLE	IF	CITATIONS
55	Design of an Arduino-Based FMCW Radar using Cantennas. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2021, 32, 836-844.	0.3	0
56	Frequency Diverse Array Technique for Short-Range 3D Beam Focusing Technology. The Journal of Korean Institute of Electromagnetic Engineering and Science, 2022, 33, 169-176.	0.3	0