

Sang-Gug Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

1,014
citations

13
h-index

29
g-index

116
ext. papers

1,330
ext. citations

3.6
avg, IF

4.42
L-index

#	Paper	IF	Citations
94	A Fully Integrated 490-GHz CMOS Receiver Adopting Dual-Locking Receiver-Based FLL. <i>IEEE Journal of Solid-State Circuits</i> , 2022 , 1-1	5.5	
93	A Reconfigurable DC-DC Converter for Maximum Thermoelectric Energy Harvesting in a Battery-Powered Duty-Cycling Wireless Sensor Node. <i>IEEE Journal of Solid-State Circuits</i> , 2022 , 1-1	5.5	1
92	A 915 MHz IoT Transmitter Employing Frequency Tripler and Digitally Controlled Duty-Cycle/Phase Calibration. <i>IEEE Journal of Solid-State Circuits</i> , 2022 , 1-1	5.5	1
91	Design of Photonics-Based FMCW Radar Transceiver System. <i>The Journal of Korean Institute of Electromagnetic Engineering and Science</i> , 2021 , 32, 933-941	0.3	0
90	Design and Manufacture of Traveling-wave Electro-optic Modulator for X-band LFM Signal Generation. <i>Journal of the Korea Institute of Military Science and Technology</i> , 2021 , 24, 610-618	0.2	
89	Automatic Bias Control Technique of Dual-Parallel Mach-Zehnder Modulator Based on Simulated Annealing Algorithm for Quadrupled Signal Generation. <i>Photonics</i> , 2021 , 8, 80	2.2	0
88	Design of Photonics-Based FMCW Transceiver System for High-Resolution ISAR. <i>The Journal of Korean Institute of Electromagnetic Engineering and Science</i> , 2021 , 32, 215-222	0.3	
87	A 250-GHz 12.6-dB Gain and 3.8-dBm Psat Power Amplifier in 65-nm CMOS Adopting Dual-Shunt Elements Based Gmax-Core. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 292-295	2.6	4
86	A D-Band High-Gain and Low-Power LNA in 65-nm CMOS by Adopting Simultaneous Noise- and Input-Matched Gmax-Core. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2519-2530	4.1	8
85	An Active Leakage Canceller Adopting Switched-Capacitor Digital Power Amplifier for UHF-RFID Transceiver. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 604-607	2.6	1
84	Power Management IC With a Three-Phase Cold Self-Start for Thermoelectric Generators. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 103-113	3.9	2
83	A Sub-nW Single-Supply 32-kHz Sub-Harmonic Pulse Injection Crystal Oscillator. <i>IEEE Journal of Solid-State Circuits</i> , 2021 , 56, 1849-1858	5.5	3
82	Field Experiment of Photonic Radar for Low-RCS Target Detection and High-Resolution Image Acquisition. <i>IEEE Access</i> , 2021 , 9, 63559-63566	3.5	4
81	A D-Band Power Amplifier in 65-nm CMOS by Adopting Simultaneous Output Power-and Gain-Matched Gmax-Core. <i>IEEE Access</i> , 2021 , 9, 99039-99049	3.5	2
80	Design of High-Gain Sub-THz Regenerative Amplifiers Based on Double-Gmax Gain Boosting Technique. <i>IEEE Journal of Solid-State Circuits</i> , 2021 , 1-1	5.5	2
79	A 0.3-to-1-GHz IoT Transmitter Employing Pseudo-Randomized Phase Switching Modulator and Single-Supply Class-G Harmonic Rejection PA. <i>IEEE Journal of Solid-State Circuits</i> , 2021 , 1-1	5.5	1
78	17.6 A Reconfigurable DC-DC Converter for Maximum TEG Energy Harvesting in a Battery-Powered Wireless Sensor Node 2021 ,		3

77	. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 893-896	2.6	0
76	A Low-Noise and Fast-Settling UHF RFID Receiver With Digitally Controlled Leakage Cancellation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 2810-2814	3.5	0
75	A 27 dB Sidelobe Suppression, 1.12 GHz BW 10dB UWB Pulse Generator With Process Compensation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 2805-2809	3.5	1
74	A 123-dBm Sensitivity Split-Channel BFSK Reconfigurable Data/Wake-Up Receiver for Low-Power Wide-Area Networks. <i>IEEE Journal of Solid-State Circuits</i> , 2021 , 56, 2656-2667	5.5	0
73	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
72	A 247 and 272 GHz Two-Stage Regenerative Amplifiers in 65 nm CMOS with 18 and 15 dB Gain Based on Double-Gmax Gain Boosting Technique 2020 ,		3
71	An 80 MHz Bandwidth and 26.8 dBm OOB IIP3 Transimpedance Amplifier With Improved Nested Feedforward Compensation and Multi-Order Filtering. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 3410-3421	3.9	3
70	A 5.5-dBm, 31.9% Efficiency 915-MHz Transmitter Employing Frequency Tripler and 207- μ W Synthesizer. <i>IEEE Microwave and Wireless Components Letters</i> , 2020 , 30, 90-93	2.6	3
69	A Ku-Band RF Front-End Employing Broadband Impedance Matching with 3.5 dB NF and 21 dB Conversion Gain in 45-nm CMOS Technology. <i>Electronics (Switzerland)</i> , 2020 , 9, 539	2.6	1
68	A 5 dBm 30.6% Efficiency 915 MHz Transmitter with 210 μ W ULP PLL Employing Frequency Tripler and Digitally Controlled Duty/Phase Calibration Buffer 2020 ,		1
67	500 GHz CMOS heterodyne imager adopting fourth subharmonic passive mixer. <i>Microwave and Optical Technology Letters</i> , 2020 , 62, 683-687	1.2	3
66	Dynamic Control for On-Demand Interference-Managed WLAN Infrastructures. <i>IEEE/ACM Transactions on Networking</i> , 2020 , 28, 84-97	3.8	0
65	X-Band Photonic-Based Pulsed Radar Architecture with a High Range Resolution. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6558	2.6	5
64	A Real-Time Entropy Estimation Algorithm for Lithium Batteries Based on a Combination of Kalman Filter and Nonlinear Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8034-8043	8.9	3
63	Wide Locking-Range Frequency Multiplier by 1.5 Employing Quadrature Injection-Locked Frequency Tripler With Embedded Notch Filtering. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 4791-4802	4.1	7
62	A 230-60-GHz Wideband and High-Gain Amplifier in 65-nm CMOS Based on Dual-Peak G_{\max} -Core. <i>IEEE Journal of Solid-State Circuits</i> , 2019 , 54, 1613-1623	5.5	19
61	Simulation-Based Distributed Coordination Maximization Over Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 713-726	4	
60	Information source localization with protector diffusion in networks. <i>Journal of Communications and Networks</i> , 2019 , 21, 136-147	4.1	4

59	A Fully Integrated 490-GHz CMOS Heterodyne Imager Adopting Second Subharmonic Resistive Mixer Structure. <i>IEEE Microwave and Wireless Components Letters</i> , 2019 , 29, 673-676	2.6	7
58	A 270-GHz Push-Push Transformer-Based Oscillator Adopting Power Leakage Suppression Technique. <i>Electronics (Switzerland)</i> , 2019 , 8, 1347	2.6	1
57	Three-Phase Boost-Converter Based PMIC for Thermal Electric Generator Application 2019 ,		1
56	A 915 MHz, 499 μ W, 19 dBm, and 100 kbps BFSK Direct Conversion Receiver 2019 ,		2
55	A 280-/300-GHz Three-Stage Amplifiers in 65-nm CMOS With 12-/9-dB Gain and 1.6/1.4% PAE While Dissipating 17.9 mW. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 79-81	2.6	14
54	Nonlinear Analysis of Nonresonant THz Response of MOSFET and Implementation of a High-Responsivity Cross-Coupled THz Detector. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2018 , 8, 108-120	3.4	15
53	A 45- μ W, 162.1-dBc/Hz FoM, 490-MHz Two-Stage Differential Ring VCO Without a Cross-Coupled Latch. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018 , 65, 1579-1583	3.5	6
52	A 96.5% Efficiency Current Mode Hysteretic Buck Converter With 1.2% Error Auto-Selectable Frequency Locking. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7733-7743	7.2	7
51	Game Theoretic Perspective of Optimal CSMA. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 194-209	9.6	9
50	High-Power 268-GHz Push-Push Transformer-Based Oscillator With Capacitive Degeneration. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 612-614	2.6	5
49	Optimal Inference in Crowdsourced Classification via Belief Propagation. <i>IEEE Transactions on Information Theory</i> , 2018 , 64, 6127-6138	2.8	1
48	Effects of Parasitic Source/Drain Junction Area on Terahertz Responsivity of MOSFET Detector. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2018 , 8, 681-687	3.4	3
47	A Colpitts Oscillator-Based Self-Starting Boost Converter for Thermoelectric Energy Harvesting With 40-mV Startup Voltage and 75% Maximum Efficiency. <i>IEEE Journal of Solid-State Circuits</i> , 2018 , 53, 3293-3302	5.5	27
46	A 2.4-GHz Super-Regenerative Transceiver With Selectivity-Improving Dual Q-Enhancement Architecture and 102- μ W All-Digital FLL. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 3287-3298	4.1	6
45	A 2.4-GHz Ternary Sequence Spread Spectrum OOK Transceiver for Reliable and Ultra-Low Power Sensor Network Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2017 , 64, 2976-2987	3.9	7
44	0.5 and 1.5 THz monolithic imagers in a 65 nm CMOS adopting a VCO-based signal processing 2017 ,		3
43	A 2.4GHz, 102dBm-sensitivity, 25kb/s, 0.466mW interference resistant BFSK multi-channel sliding-IF ULP receiver 2017 ,		9
42	A 230-260GHz wideband amplifier in 65nm CMOS based on dual-peak Gmax-core 2017 ,		2

41	A 200-V 98.16%-Efficiency Buck LED Driver Using Integrated Current Control to Improve Current Accuracy for Large-Scale Single-String LED Backlighting Applications. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 6416-6427	7.2	13
40	Delay Optimal CSMA With Linear Virtual Channels Under a General Topology. <i>IEEE/ACM Transactions on Networking</i> , 2016 , 24, 2847-2857	3.8	6
39	A Compact Flicker-Free Transformer-Less LED Driver With an Enhanced Power Factor for Omnidirectional Multichannel Smart Bulb Applications. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 5851-5862	7.2	6
38	Breaking the Trapping Sets in LDPC Codes: Check Node Removal and Collaborative Decoding. <i>IEEE Transactions on Communications</i> , 2016 , 64, 15-26	6.9	9
37	Just-in-time WLANs: On-demand interference-managed WLAN infrastructures 2016 ,		4
36	Distributed Medium Access Over Time-Varying Channels. <i>IEEE/ACM Transactions on Networking</i> , 2016 , 24, 3000-3013	3.8	
35	A 50/50 MHz Tunable RF Biquad Filter Based on a Wideband Source Follower With > 26 dBm IIP ₃ , +12 dBm P _{1dB} , and 15 dB Noise Figure. <i>IEEE Journal of Solid-State Circuits</i> , 2015 , 50, 2294-2305	5.5	10
34	Impacts of Selfish Behaviors on the Scalability of Hybrid Client-Server and Peer-to-Peer Caching Systems. <i>IEEE/ACM Transactions on Networking</i> , 2015 , 23, 1818-1831	3.8	4
33	CSMA Using the Bethe Approximation: Scheduling and Utility Maximization. <i>IEEE Transactions on Information Theory</i> , 2015 , 61, 4776-4787	2.8	8
32	On the progressive spread over strategic diffusion: Asymptotic and computation 2015 ,		1
31	MOSFET Characteristics for Terahertz Detector Application From On-Wafer Measurement. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 1068-1077	3.4	9
30	A 2.2 mW, 40 dB Automatic Gain Controllable Low Noise Amplifier for FM Receiver. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015 , 62, 600-606	3.9	6
29	Distributed learning for utility maximization over CSMA-based wireless multihop networks 2014 ,		9
28	Optimization of piezoelectric energy harvesting systems by using a MPPT method 2014 ,		8
27	A High-Sensitivity and Low-Walk Error LADAR Receiver for Military Application. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014 , 61, 3007-3015	3.9	48
26	Influence maximization over strategic diffusion in social networks 2014 ,		1
25	A Fast and Precise Blind I/Q Mismatch Compensation for Image Rejection in Direct-Conversion Receiver. <i>ETRI Journal</i> , 2014 , 36, 12-21	1.4	2
24	Bottom-inlet-type micro-electro-mechanical system acoustic sensors based on two polyimide/amorphous-Si sacrificial layers. <i>Micro and Nano Letters</i> , 2014 , 9, 845-849	0.9	1

23	A 5.8-GHz DSRC Transceiver With a 10- μW Interference-Aware Wake-Up Receiver for the Chinese ETCS. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 3146-3160	4.1	13
22	STI edge effect on the series resistance of CMOS Schottky barrier diodes. <i>Microwave and Optical Technology Letters</i> , 2014 , 56, 932-935	1.2	
21	Maximum power transfer considering limited available input power in ultrasonic wireless power transfer for implanted medical devices 2014 ,		3
20	Provable per-link delay-optimal CSMA for general wireless network topology 2014 ,		10
19	Development of low-complexity all-digital frequency locked loop as 500 MHz reference clock generator for field-programmable gate array. <i>IET Circuits, Devices and Systems</i> , 2014 , 8, 73-81	1.1	6
18	A CMOS Wideband Highly Linear Low-Noise Amplifier for Digital TV Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 3700-3711	4.1	29
17	CSMA using the Bethe approximation for utility maximization 2013 ,		7
16	A 0.5V 2.41GHz, 196.3dBc/Hz FoM differential colpitts VCO with an output voltage swing exceeding supply and ground potential requiring no additional inductor 2013 ,		3
15	A Low-Noise Four-Stage Voltage-Controlled Ring Oscillator in Deep-Submicrometer CMOS Technology. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2013 , 60, 71-75	3.5	44
14	A Type-I $\Delta\Sigma$ Fractional-N Frequency Synthesizer Adopting a New Discrete-Time Loop Filter. <i>IEEE Microwave and Wireless Components Letters</i> , 2013 , 23, 545-547	2.6	0
13	Calibration technique for sensitivity variation in RVDT type accelerator position sensor 2013 ,		2
12	A rectifier for piezoelectric energy harvesting system with series Synchronized Switch Harvesting Inductor 2013 ,		10
11	A Two-Channel Asynchronous SAR ADC With Metastable-Then-Set Algorithm. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2012 , 20, 765-769	2.6	18
10	A New Approach to Low-Power and Low-Latency Wake-Up Receiver System for Wireless Sensor Nodes. <i>IEEE Journal of Solid-State Circuits</i> , 2012 , 47, 2405-2419	5.5	32
9	An Integrated High-Performance Active Rectifier for Piezoelectric Vibration Energy Harvesting Systems. <i>IEEE Transactions on Power Electronics</i> , 2012 , 27, 623-627	7.2	62
8	A CMOS highly linear low-noise amplifier for Digital TV applications 2012 ,		1
7	Challenges and directions of ultra low energy wireless sensor nodes for biosignal monitoring 2012 ,		4
6	A 520 pJ/pulse IR-UWB radar for short range object detection 2011 ,		2

5	A Long Reset-Time Power-On Reset Circuit With Brown-Out Detection Capability. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2011 , 58, 778-782	3.5	25
4	A high efficiency piezoelectric energy harvesting system 2011 ,		5
3	A Low Power and Low Noise On-Chip Active RF Tracking Filter for Digital TV Tuner ICs. <i>IEICE Transactions on Electronics</i> , 2011 , E94-C, 1698-1701	0.4	
2	Energy-Efficient Low-Complexity CMOS Pulse Generator for Multiband UWB Impulse Radio. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 3552-3563	3.9	51
1	CMOS low-noise amplifier design optimization techniques. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2004 , 52, 1433-1442	4.1	325