

Jong-Seok Park

List of Publications by Year in descending order

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688
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of A Transformer-Based Reconfigurable Digital Polar Doherty Power Amplifier Fully Integrated in Bulk CMOS. IEEE Journal of Solid-State Circuits, 2015, 50, 1094-1106.	3.5	79
2	A Transformer-Based Poly-Phase Network for Ultra-Broadband Quadrature Signal Generation. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4444-4457.	2.9	75
3	A Multi-Modality CMOS Sensor Array for Cell-Based Assay and Drug Screening. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 801-814.	2.7	65
4	1024-Pixel CMOS Multimodality Joint Cellular Sensor/Stimulator Array for Real-Time Holistic Cellular Characterization and Cell-Based Drug Screening. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 80-94.	2.7	48
5	A 28-GHz Flip-Chip Packaged Chireix Transmitter With On-Antenna Outphasing Active Load Modulation. IEEE Journal of Solid-State Circuits, 2019, 54, 1243-1253.	3.5	48
6	A Highly Linear Dual-Band Mixed-Mode Polar Power Amplifier in CMOS with An Ultra-Compact Output Network. IEEE Journal of Solid-State Circuits, 2016, 51, 1756-1770.	3.5	43
7	A CMOS Wideband Current-Mode Digital Polar Power Amplifier With Built-In AM-PM Distortion Self-Compensation. IEEE Journal of Solid-State Circuits, 2018, 53, 340-356.	3.5	39
8	A Multifeed Antenna for High-Efficiency On-Antenna Power Combining. IEEE Transactions on Antennas and Propagation, 2017, 65, 6937-6951.	3.1	37
9	Multi-parametric cell profiling with a CMOS quad-modality cellular interfacing array for label-free fully automated drug screening. Lab on A Chip, 2018, 18, 3037-3050.	3.1	31
10	A Millimeter-Wave Polarization-Division-Duplex Transceiver Front-End With an On-Chip Multifeed Self-Interference-Canceling Antenna and an All-Passive Reconfigurable Canceller. IEEE Journal of Solid-State Circuits, 2018, 53, 3628-3639.	3.5	29
11	Intracellular cardiomyocytes potential recording by planar electrode array and fibroblasts co-culturing on multi-modal CMOS chip. Biosensors and Bioelectronics, 2019, 144, 111626.	5.3	27
12	A CMOS Multi-Modal Electrochemical and Impedance Cellular Sensing Array for Massively Paralleled Exoelectrogen Screening. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 221-234.	2.7	26
13	A Fully Differential Ultra-Compact Broadband Transformer-Based Wilkinson Power Divider. IEEE Microwave and Wireless Components Letters, 2016, 26, 255-257.	2.0	25
14	Towards Energy-Efficient 5G Mm-Wave links: Exploiting broadband Mm-Wave doherty power amplifier and multi-feed antenna with direct on-antenna power combining. , 2017, , .		22
15	A CMOS 1.2-V Hybrid Current- and Voltage-Mode Three-Way Digital Doherty PA With Built-In Phase Nonlinearity Compensation. IEEE Journal of Solid-State Circuits, 2020, 55, 525-535.	3.5	22
16	A fully differential ultra-compact broadband transformer based quadrature generation scheme. , 2013, , .		21
17	A 24-GHz 360° Full-Span Differential Vector Modulator Phase Rotator With Transformer-Based Poly-Phase Quadrature Network. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 2623-2635.	2.1	21
18	A Fully Integrated Cryo-CMOS SoC for State Manipulation, Readout, and High-Speed Gate Pulsing of Spin Qubits. IEEE Journal of Solid-State Circuits, 2021, 56, 3289-3306.	3.5	19

#	ARTICLE	IF	CITATIONS
19	A multi-feed antenna for antenna-level power combining. , 2016, , .		18
20	28.4 A CMOS Multimodality In-Pixel Electrochemical and Impedance Cellular Sensing Array for Massively Paralleled Synthetic Exoelectrogen Characterization. , 2020, , .		14
21	11.7 A multimodality CMOS sensor array for cell-based assay and drug screening. , 2015, , .		12
22	A high-density CMOS multi-modality joint sensor/stimulator array with 1024 pixels for holistic real-time cellular characterization. , 2016, , .		12
23	A 21952-Pixel Multi-Modal CMOS Cellular Sensor Array with 1568-Pixel Parallel Recording and 4-Point Impedance Sensing. , 2019, , .		10
24	A CMOS 21 952-Pixel Multi-Modal Cell-Based Biosensor With Four-Point Impedance Sensing for Holistic Cellular Characterization. IEEE Journal of Solid-State Circuits, 2021, 56, 2438-2451.	3.5	10
25	A 2–24GHz 360° full-span differential vector modulator phase rotator with transformer-based poly-phase quadrature network. , 2015, , .		8
26	A transformer-based poly-phase network for ultra-broadband quadrature signal generation. , 2015, , .		8
27	A CMOS 22k-pixel single-cell resolution multi-modality real-time cellular sensing array. , 2017, , .		8
28	Cryogenic CMOS for Qubit Control and Readout. , 2022, , .		8
29	A passive quadrature generation scheme for integrated RF systems. , 2013, , .		7
30	A 1.2 V Single Supply Hybrid Current-/Voltage-Mode Three-Way Digital Doherty PA with Built-In Large-Signal Phase Compensation Achieving Less-Than 5Â° AM-PM. , 2019, , .		7
31	Electrodeâ€“Electrolyte Interface Impedance Characterization of Ultra-Miniaturized Microelectrode Arrays Over Materials and Geometries for Sub-Cellular and Cellular Sensing and Stimulation. IEEE Transactions on Nanobioscience, 2019, 18, 248-252.	2.2	6
32	Cell culture and cell based sensor on CMOS. , 2014, , .		5
33	3-D Integrated Electronic Microplate Platform for Low-Cost Repeatable Biosensing Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 1827-1833.	1.4	5
34	A fully packaged D-band MIMO transmitter using high-density flip-chip interconnects on LCP substrate. , 2016, , .		3
35	Live demonstration: A multi-modality CMOS sensor array for cell-based assay and drug screening. , 2015, , .		2
36	Live demonstration: A 1024-pixel CMOS multi-modality sensing array for cell-based assays. , 2016, , .		1