

# Marko Kosunen

## List of Publications by Year in descending order

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Version: 2024-02-01

53  
papers

485  
citations

840119

11  
h-index

752256

20  
g-index

53  
all docs

53  
docs citations

53  
times ranked

443  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Fully Digital On-Chip Wideband Background Calibration for Channel Mismatches in Time-Interleaved Time-Based ADCs. IEEE Solid-State Circuits Letters, 2022, 5, 9-12.                       | 1.3 | 1         |
| 2  | Energy-Efficient Cyclic-Coupled Ring Oscillator With Delay-Based Injection Locking. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3709-3713.                    | 2.2 | 1         |
| 3  | Data Conversion With Subgate-Delay Time Resolution Using Cyclic-Coupled Ring Oscillators. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2021, 29, 203-214.            | 2.1 | 4         |
| 4  | A 100â€“750 MS/s 11-Bit Time-to-Digital Converter With Cyclic-Coupled Ring Oscillator. IEEE Access, 2021, 9, 48147-48156.   | 2.6 | 10        |
| 5  | A Frequency Tunable MIMO Antenna Cluster with Transmitter IC. , 2021, , .   |     | 2         |
| 6  | Quantized Polar Transmitters for Power Efficient Massive MIMO Systems. IEEE Wireless Communications Letters, 2021, 10, 859-863.   | 3.2 | 1         |
| 7  | A Transmitter IC with Supply Tuning for Frequency-Reconfigurable Antenna Cluster. , 2021, , .   |     | 0         |
| 8  | Characterization of an Antenna Cluster and Transmitter IC with a Modulated Signal. , 2021, , .  |     | 0         |
| 9  | Resilient flow control for wireless data streaming in inductively coupled medical implants. Microprocessors and Microsystems, 2020, 72, 102905.   | 1.8 | 10        |
| 10 | A Class-D Tri-Phasing CMOS Power Amplifier With an Extended Marchand-Balun Power Combiner. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1022-1034.                     | 2.9 | 4         |
| 11 | Time-Based Sensor Interface for Dopamine Detection. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3284-3296.   | 3.5 | 3         |
| 12 | A 0.6â€“4.0 GHz RF-Resampling Beamforming Receiver With Frequency-Scaling True-Time-Delays up to Three Carrier Cycles. IEEE Solid-State Circuits Letters, 2020, 3, 234-237.               | 1.3 | 11        |
| 13 | A 1.5â€“5-GHz Integrated RF Transmitter Front End for Active Matching of an Antenna Cluster. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4728-4739.                   | 2.9 | 7         |
| 14 | A 2â€“5.5 GHz Beamsteering Receiver IC With 4-Element Vivaldi Antenna Array. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3852-3860.                                   | 2.9 | 3         |
| 15 | Passive Intermodulation in Simultaneous Transmitâ€“Receive Systems: Modeling and Digital Cancellation Methods. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3633-3652. | 2.9 | 21        |
| 16 | A wideband blocker-resilient direct delta sigma receiver with selective input-impedance matching. Analog Integrated Circuits and Signal Processing, 2020, 103, 195-207.                   | 0.9 | 0         |
| 17 | A Six-Phase Two-Stage Blocker-Tolerant Harmonic-Rejection Receiver. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1964-1976.  | 2.9 | 3         |
| 18 | True-Time-Delay Beamforming Receiver With RF Re-Sampling. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 4457-4469.   | 3.5 | 11        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Quantization noise upconversion effects in mixer-first direct $\Delta\Sigma$ receivers. International Journal of Circuit Theory and Applications, 2019, 47, 1893-1906.   | 1.3 | 0         |
| 20 | A Blocker-Tolerant Two-Stage Harmonic-Rejection RF Front-End. , 2019, , .  |     | 2         |
| 21 | A 1.5-1.9-GHz All-Digital Tri-Phasing Transmitter With an Integrated Multilevel Class-D Power Amplifier Achieving 100-MHz RF Bandwidth. IEEE Journal of Solid-State Circuits, 2019, 54, 1517-1527.                         | 3.5 | 25        |
| 22 | A Delay-Based LO Phase-Shifting Generator for a 2-5GHz Beamsteering Receiver in 28nm CMOS. , 2019, , .   |     | 2         |
| 23 | A Sensor Interface for Neurochemical Signal Acquisition. , 2019, , .   |     | 1         |
| 24 | A Systematic Design Method for Direct Delta-Sigma Receivers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 2389-2402.   | 3.5 | 2         |
| 25 | Adaptive Nonlinear RF Cancellation for Improved Isolation in Simultaneous Transmit-Receive Systems. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2299-2312.   | 2.9 | 66        |
| 26 | Performance Analysis of Frequency-Reconfigurable Antenna Cluster With Integrated Radio Transceivers. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 756-759.  | 2.4 | 11        |
| 27 | Tri-Phasing Modulation for Efficient and Wideband Radio Transmitters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3085-3098.  | 3.5 | 4         |
| 28 | A High-Speed DSP Engine for First-Order Hold Digital Phase Modulation in 28-nm CMOS. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1959-1963.  | 2.2 | 1         |
| 29 | Spatial Interpolation of Cyclostationary Test Statistics in Cognitive Radio Networks: Methods and Field Measurements. IEEE Transactions on Vehicular Technology, 2018, 67, 1113-1129.                                      | 3.9 | 22        |
| 30 | A Low-Power Hardware Stack for Continuous Data Streaming from Telemetry Implants. , 2018, , .  |     | 0         |
| 31 | Power-Scalable Dynamic Element Matching for a 3.4-GHz 9-bit $\Delta\Sigma$ RF-DAC in 16-nm FinFET. IEEE Solid-State Circuits Letters, 2018, 1, 126-129.  | 1.3 | 5         |
| 32 | Design and Implementation of a Wideband Digital Interpolating Phase Modulator RF Front-End. , 2018, , .  |     | 3         |
| 33 | A common-gate common-source low noise amplifier based RF front end with selective input impedance matching for blocker-resilient receivers. International Journal of Circuit Theory and Applications, 2018, 46, 1427-1442. | 1.3 | 4         |
| 34 | Spectral Effects of Discrete-Time Amplitude Levels in Digital-Intensive Wideband Radio Transmitters. , 2018, , .   |     | 3         |
| 35 | Full-Duplex Wireless Transceiver Self-Interference Cancellation Through FD-SOI Buried-Gate Signaling. , 2018, , .  |     | 4         |
| 36 | A 30-dBm Class-D Power Amplifier with On/Off Logic for an Integrated Tri-Phasing Transmitter in 28-nm CMOS. , 2018, , .  |     | 5         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | 13.5 A 0.35-to-2.6GHz multilevel outphasing transmitter with a digital interpolating phase modulator enabling up to 400MHz instantaneous bandwidth. , 2017, , .   |     | 24        |
| 38 | Reference Receiver Enhanced Digital Linearization of Wideband Direct-Conversion Receivers. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 607-620.   | 2.9 | 20        |
| 39 | Modeling and Joint Mitigation of TX and RX Nonlinearity-Induced Receiver Desensitization. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2427-2442.  | 2.9 | 12        |
| 40 | All-Digital LTE SAW-Less Transmitter With DSP-Based Programming of RX-Band Noise. IEEE Journal of Solid-State Circuits, 2017, 52, 3434-3445.  | 3.5 | 15        |
| 41 | Dynamic element matching in digital-to-analog converters with code-dependent output resistance. , 2017, , .   |     | 0         |
| 42 | A current controlled oscillator based readout front-end for neurochemical sensing in 65nm CMOS technology. , 2016, , .  |     | 4         |
| 43 | The effects of non-linearity in spectrum sensing receivers. International Journal of Microwave and Wireless Technologies, 2016, 8, 995-1003.  | 1.5 | 0         |
| 44 | Digital Interpolating Phase Modulator for Wideband Outphasing Transmitters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 705-715.   | 3.5 | 26        |
| 45 | Performance Evaluation of Cyclostationary-Based Cooperative Sensing Using Field Measurements. IEEE Transactions on Vehicular Technology, 2016, 65, 1982-1997.   | 3.9 | 19        |
| 46 | Measurement campaign for collaborative sensing using cyclostationary based mobile sensors. , 2014, , .  |     | 6         |
| 47 | RX-Band Noise Reduction in All-Digital Transmitters With Configurable Spectral Shaping of Quantization and Mismatch Errors. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 3256-3265. | 3.5 | 7         |
| 48 | A configurable sampling rate converter for all-digital 4G transmitters. , 2013, , .   |     | 7         |
| 49 | A programmable DSP front-end for all-digital 4G transmitters. , 2013, , .   |     | 0         |
| 50 | Correlation-Based Detection of OFDM Signals in the Angular Domain. IEEE Transactions on Vehicular Technology, 2012, 61, 951-958.  | 3.9 | 23        |
| 51 | A Micropower $\Delta\Sigma$ -Based Interface ASIC for a Capacitive 3-Axis Micro-Accelerometer. IEEE Journal of Solid-State Circuits, 2009, 44, 3193-3210.   | 3.5 | 57        |
| 52 | A CMOS Quadrature Baseband Frequency Synthesizer/Modulator. Analog Integrated Circuits and Signal Processing, 1999, 18, 55-67.  | 0.9 | 13        |
| 53 | Leveraging frequency agility of an MIMO antenna cluster with a transmitter IC. International Journal of Microwave and Wireless Technologies, 0, , 1-10.   | 1.5 | 0         |