Ali Hajimiri

List of Publications by Year
in descending order

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181 papers	12,136 citations	81434 41 h-index	45040 94 g-index
185 all docs	185 docs citations	185 times ranked	6972 citing authors

#	Article	IF	Citations
1	A general theory of phase noise in electrical oscillators. IEEE Journal of Solid-State Circuits, 1998, 33, 179-194.	3.5	1,847
2	Jitter and phase noise in ring oscillators. IEEE Journal of Solid-State Circuits, 1999, 34, 790-804.	3.5	813
3	Design issues in CMOS differential LC oscillators. IEEE Journal of Solid-State Circuits, 1999, 34, 717-724.	3.5	783
4	Oscillator phase noise: a tutorial. IEEE Journal of Solid-State Circuits, 2000, 35, 326-336.	3.5	708
5	Concepts and methods in optimization of integrated LC VCOs. IEEE Journal of Solid-State Circuits, 2001, 36, 896-909.	3.5	564
6	Concurrent multiband low-noise amplifiers-theory, design, and applications. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 288-301.	2.9	375
7	Distributed active transformer-a new power-combining and impedance-transformation technique. IEEE Transactions on Microwave Theory and Techniques, 2002, 50, 316-331.	2.9	368
8	A 77-GHz Phased-Array Transceiver With On-Chip Antennas in Silicon: Receiver and Antennas. IEEE Journal of Solid-State Circuits, 2006, 41, 2795-2806.	3.5	340
9	Fully integrated CMOS power amplifier design using the distributed active-transformer architecture. IEEE Journal of Solid-State Circuits, 2002, 37, 371-383.	3.5	321
10	A 77-GHz Phased-Array Transceiver With On-Chip Antennas in Silicon: Transmitter and Local LO-Path Phase Shifting. IEEE Journal of Solid-State Circuits, 2006, 41, 2807-2819.	3.5	286
11	A self-sustaining ultrahigh-frequency nanoelectromechanical oscillator. Nature Nanotechnology, 2008, 3, 342-346.	15.6	266
12	A 0.28 THz Power-Generation and Beam-Steering Array in CMOS Based on Distributed Active Radiators. IEEE Journal of Solid-State Circuits, 2012, 47, 3013-3031.	3.5	252
13	A noise-shifting differential Colpitts VCO. IEEE Journal of Solid-State Circuits, 2002, 37, 1728-1736.	3.5	249
14	The class-E/F family of ZVS switching amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1677-1690.	2.9	217
15	A 24-GHz CMOS Front-End. IEEE Journal of Solid-State Circuits, 2004, 39, 368-373.	3.5	217
16	A fully integrated 24-GHz eight-element phased-array receiver in silicon. IEEE Journal of Solid-State Circuits, 2004, 39, 2311-2320.	3.5	193
17	Capacity limits and matching properties of integrated capacitors. IEEE Journal of Solid-State Circuits, 2002, 37, 384-393.	3.5	188
18	Nonlinear transmission lines for pulse shaping in silicon. IEEE Journal of Solid-State Circuits, 2005, 40, 744-752.	3.5	171

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19	Transmitter Architectures Based on Near-Field Direct Antenna Modulation. IEEE Journal of Solid-State Circuits, 2008, 43, 2674-2692.	3.5	171
20	Bandwidth enhancement for transimpedance amplifiers. IEEE Journal of Solid-State Circuits, 2004, 39, 1263-1270.	3.5	167
21	A CMOS Broadband Power Amplifier With a Transformer-Based High-Order Output Matching Network. IEEE Journal of Solid-State Circuits, 2010, 45, 2709-2722.	3.5	163
22	Fractal capacitors. IEEE Journal of Solid-State Circuits, 1998, 33, 2035-2041.	3.5	140
23	A Millimeter-Wave Intra-Connect Solution. IEEE Journal of Solid-State Circuits, 2010, 45, 2655-2666.	3.5	137
24	Nanophotonic projection system. Optics Express, 2015, 23, 21012.	1.7	137
25	A Nonuniform Sparse 2-D Large-FOV Optical Phased Array With a Low-Power PWM Drive. IEEE Journal of Solid-State Circuits, 2019, 54, 1200-1215.	3.5	130
26	Near-field direct antenna modulation. IEEE Microwave Magazine, 2009, 10, 36-46.	0.7	121
27	A Fully-Integrated Quad-Band GSM/GPRS CMOS Power Amplifier. IEEE Journal of Solid-State Circuits, 2008, 43, 2747-2758.	3.5	107
28	Integrated Self-Healing for mm-Wave Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1301-1315.	2.9	93
29	Nanophotonic optical gyroscope with reciprocal sensitivity enhancement. Nature Photonics, 2018, 12, 671-675.	15.6	90
30	Characterization of a radiation-pressure-driven micromechanical oscillator. Physical Review A, 2006, 74, .	1.0	89
31	A 12.5+12.5 Gb/s Full-Duplex Plastic Waveguide Interconnect. IEEE Journal of Solid-State Circuits, 2011, 46, 3113-3125.	3.5	83
32	Silicon Integrated 280 GHz Imaging Chipset With 4<formula formulatype="inline"><tex Notation="TeX">$imes$</tex> </formula>4 SiGe Receiver Array and CMOS Source. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 427-437.	2.0	81
33	On noise processes and limits of performance in biosensors. Journal of Applied Physics, 2007, 102, .	1.1	76
34	A Scalable 6-to-18 GHz Concurrent Dual-Band Quad-Beam Phased-Array Receiver in CMOS. IEEE Journal of Solid-State Circuits, 2008, 43, 2660-2673.	3.5	76
35	Binary particle swarm optimized 2â€‰â€‰Ã—â€‰â€‰2 power splitters in a standard foundry silicon photonic platform. Optics Letters, 2016, 41, 3868.	1.7	74
36	Nanophotonic coherent imager. Optics Express, 2015, 23, 5117.	1.7	68

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37	An Octave-Range, Watt-Level, Fully-Integrated CMOS Switching Power Mixer Array for Linearization and Back-Off-Efficiency Improvement. IEEE Journal of Solid-State Circuits, 2009, 44, 3376-3392.	3.5	61
38	Multi-Port Driven Radiators. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4428-4441.	2.9	57
39	A flexible phased array system with low areal mass density. Nature Electronics, 2019, 2, 195-205.	13.1	56
40	Equalization of Third-Order Intermodulation Products in Wideband Direct Conversion Receivers. IEEE Journal of Solid-State Circuits, 2008, 43, 2853-2867.	3.5	51
41	A millimeter-wave intra-connect solution. , 2010, , .		50
42	Distributed active radiation for THz signal generation. , 2011, , .		50
43	Phase Noise and Fundamental Sensitivity of Oscillator-Based Reactance Sensors. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2215-2229.	2.9	47
44	An Integrated Subharmonic Coupled-Oscillator Scheme for a 60-GHz Phased-Array Transmitter. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4271-4280.	2.9	41
45	A Wideband CMOS Linear Digital Phase Rotator. , 2007, , .		41
46	A magnetic cell-based sensor. Lab on A Chip, 2012, 12, 4465.	3.1	41
47	High sensitivity active flat optics optical phased array receiver with a two-dimensional aperture. Optics Express, 2018, 26, 29983.	1.7	41
48	A Breakdown Voltage Multiplier for High Voltage Swing Drivers. IEEE Journal of Solid-State Circuits, 2007, 42, 302-312.	3.5	40
49	A versatile multi-modality serial link. , 2012, , .		38
50	A wideband 77GHz, 17.5dBm power amplifier in silicon. , 0, , .		36
51	A handheld magnetic sensing platform for antigen and nucleic acid detection. Analyst, The, 2014, 139, 1403-1411.	1.7	36
52	Mutual Synchronization for Power Generation and Beam-Steering in CMOS With On-Chip Sense Antennas Near 200 GHz. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2867-2876.	2.9	35
53	A Bidirectional RF-Combining 60GHz Phased-Array Front-End. Digest of Technical Papers - IEEE International Solid-State Circuits Conference, 2007, , .	0.0	34
54	Generalized Time- and Transfer-Constant Circuit Analysis. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 1105-1121.	3.5	34

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55	Successive Regeneration and Adaptive Cancellation of Higher Order Intermodulation Products in RF Receivers. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1379-1396.	2.9	34
56	Designing Optimal Surface Currents for Efficient On-Chip mm-Wave Radiators With Active Circuitry. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1976-1988.	2.9	34
57	A Near-Field Modulation Technique Using Antenna Reflector Switching. , 2008, , .		31
58	A fully-integrated self-healing power amplifier. , 2012, , .		30
59	Brownian noise in radiation-pressure-driven micromechanical oscillators. Applied Physics Letters, 2006, 89, 261109.	1.5	29
60	Sub-THz beam-forming using near-field coupling of Distributed Active Radiator arrays. , 2011, , .		29
61	A 0.28THz 4×4 power-generation and beam-steering array. , 2012, , .		29
62	A General Theory of Injection Locking and Pulling in Electrical Oscillatorsâ€”Part I: Time-Synchronous Modeling and Injection Waveform Design. IEEE Journal of Solid-State Circuits, 2019, 54, 2109-2121.	3.5	28
63	Functionalized iron oxide nanoparticles for controlling the movement of immune cells. Nanoscale, 2015, 7, 7780-7789.	2.8	27
64	Dynamic Polarization Control. IEEE Journal of Solid-State Circuits, 2015, 50, 1224-1236.	3.5	26
65	A Phasor-Based Analysis of Sinusoidal Injection Locking in LC and Ring Oscillators. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 355-368.	3.5	26
66	mm-Wave Silicon ICs: Challenges and Opportunities. , 2007, , .		25
67	A lightweight tile structure integrating photovoltaic conversion and RF power transfer for space solar power applications. , 2018, , .		25
68	A General Theory of Injection Locking and Pulling in Electrical Oscillatorsâ€”Part II: Amplitude Modulation in LC Oscillators, Transient Behavior, and Frequency Division. IEEE Journal of Solid-State Circuits, 2019, 54, 2122-2139.	3.5	25
69	Ultrafast analog Fourier transform using 2-D LC lattice. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2332-2343.	3.5	24
70	Dynamic Focusing of Large Arrays for Wireless Power Transfer and Beyond. IEEE Journal of Solid-State Circuits, 2021, 56, 2077-2101.	3.5	24
71	Computational aberration correction of VIS-NIR multispectral imaging microscopy based on Fourier ptychography. Optics Express, 2019, 27, 24923.	1.7	23
72	A Scalable 6-to-18GHz Concurrent Dual-Band Quad-Beam Phased-Array Receiver in CMOS. , 2008, , .		22

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73	On-chip sensing and actuation methods for integrated self-healing mm-wave CMOS power amplifier. , 2012, , .		21
74	Dynamic Polarization Control of Two-Dimensional Integrated Phased Arrays. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1066-1077.	2.9	21
75	A 5.2-to-13GHz class-AB CMOS power amplifier with a 25.2dBm peak output power at 21.6% PAE. , 2010, , .		20
76	An Integrated Slot-Ring Traveling-Wave Radiator. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1154-1162.	2.9	20
77	CMOS I/Q Subharmonic Mixer for Millimeter-Wave Atmospheric Remote Sensing. IEEE Microwave and Wireless Components Letters, 2016, 26, 285-287.	2.0	20
78	A Spectral-Scanning Nuclear Magnetic Resonance Imaging (MRI) Transceiver. IEEE Journal of Solid-State Circuits, 2009, 44, 1805-1813.	3.5	19
79	Design and Implementation of Reference-Free Drift-Cancelling CMOS Magnetic Sensors for Biosensing Applications. IEEE Journal of Solid-State Circuits, 2018, 53, 3065-3075.	3.5	18
80	An 8Ã—8 Heterodyne Lens-less OPA Camera. , 2017, , .		17
81	Comments on â€œComments on â€œA General Theory of Phase Noise in Electrical Oscillatorsâ€â€. IEEE Journal of Solid-State Circuits, 2008, 43, 2170-2170.	3.5	15
82	A 1-D Heterodyne Lens-Free Optical Phased Array Camera With Reference Phase Shifting. IEEE Photonics Journal, 2018, 10, 1-12.	1.0	15
83	Flexible, Conformal Phased Arrays with Dynamic Array Shape Self-Calibration. , 2019, , .		15
84	Scalable, Deployable, Flexible Phased Array Sheets. , 2020, , .		15
85	A frequency-shift based CMOS magnetic biosensor with spatially uniform sensor transducer gain. , 2010, , .		14
86	Equalization of IM3 Products in Wideband Direct-Conversion Receivers. Digest of Technical Papers - IEEE International Solid-State Circuits Conference, 2008, , .	0.0	13
87	Near-Field Direct Antenna Modulation (NFDAM) transmitter at 2.4GHz. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	13
88	A Wide-Swing Low-Noise Transconductance Amplifier and the Enabling of Large-Signal Handling Direct-Conversion Receivers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 30-43.	3.5	13
89	Design and Implementation of an Integrated Magnetic Spectrometer for Multiplexed Biosensing. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 773-784.	2.7	13
90	A mm-Wave Segmented Power Mixer. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1118-1129.	2.9	13

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91	A compact low-noise weighted distributed amplifier in CMOS. , 2009, , .		12
92	Next-Generation CMOS RF Power Amplifiers. IEEE Microwave Magazine, 2011, 12, 38-45.	0.7	12
93	(Invited) mm-wave silicon ICs: An opportunity for holistic design. , 2008, , .		11
94	Solving Large-Scale Hybrid Circuit-Antenna Problems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 374-387.	3.5	10
95	An integrated magnetic spectrometer for multiplexed biosensing. , 2013, , .		10
96	Fully integrated CMOS X-Band power amplifier quad with current reuse and dynamic digital feedback (DDF) capabilities. , 2017, , .		10
97	A 69-to-79GHz CMOS multiport PA/radiator with +35.7dBm CW EIRP and integrated PLL. , 2018, , .		10
98	A Silicon Photonics Computational Lensless Active-Flat-Optics Imaging System. Scientific Reports, 2020, 10, 1689.	1.6	10
99	Breaking FOV-Aperture Trade-Off With Multi-Mode Nano-Photonic Antennas. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-14.	1.9	10
100	An ultrasensitive CMOS magnetic biosensor array with correlated double counting noise suppression. , 2010, , .		9
101	An mm-Wave CMOS Iâ€“Q Subharmonic Resistive Mixer for Wideband Zero-IF Receivers. IEEE Microwave and Wireless Components Letters, 2020, 30, 520-523.	2.0	9
102	Subtractive photonics. Optics Express, 2021, 29, 877.	1.7	9
103	Programmable Active Mirror: A Scalable Decentralized Router. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1860-1874.	2.9	9
104	Fully integrated frequency and phase generation for a 6–18GHz tunable multi-band phased-array receiver in CMOS. , 2008, , .		8
105	A 12.5+12.5Gb/s full-duplex plastic waveguide interconnect. , 2011, , .		8
106	A Compact Optically Driven Travelling-Wave Radiating Source. , 2014, , .		8
107	A new wave of CMOS power amplifier innovations: Fusing digital and analog techniques with large signal RF operations. , 2014, , .		8
108	Design and Prototyping Efforts for the Space Solar Power Initiative. , 2017, , .		8

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109	Solving large-scale linear circuit problems via convex optimization. , 2009, , .		7
110	Analysis of Internally Bandlimited Multistage Cubic-Term Generators for RF Receivers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 1758-1771.	3.5	7
111	A rail-to-rail input receiver employing successive regeneration and adaptive cancellation of intermodulation products. , 2010, , .		7
112	A broadband self-healing phase synthesis scheme. , 2011, , .		7
113	Electronic laser phase noise reduction. , 2013, , .		7
114	A Low Power PWM Optical Phased Array Transmitter with 16Â° Field-of-View and 0.8Â° Beamwidth. , 2018, , .		7
115	Foundry-fabricated grating coupler demultiplexer inverse-designed via fast integral methods. Communications Physics, 2022, 5, .	2.0	7
116	A 6-to-18 GHz tunable concurrent dual-band receiver front end for scalable phased arrays in 130nm CMOS. , 2008, , .		6
117	Finding globally optimum solutions in antenna optimization problems. , 2010, , .		6
118	A study of near-field direct antenna modulation systems using convex optimization. , 2010, , .		6
119	Closed-loop spurious tone reduction for self-healing frequency synthesizers. , 2011, , .		6
120	A 19.1dBm segmented power-mixer based multi-Gbps mm-Wave transmitter in 32nm SOI CMOS. , 2014, , .		6
121	An integrated traveling-wave slot radiator. , 2014, , .		6
122	A One-Dimensional Heterodyne Lens-Free OPA Camera. , 2016, , .		6
123	Analysis and Design of Coupled Inductive Bridges for Magnetic Sensing Applications. IEEE Journal of Solid-State Circuits, 2019, 54, 1883-1894.	3.5	6
124	Scalable Optical Phased Array with Sparse 2D Aperture. , 2018, , .		6
125	Cell culture and cell based sensor on CMOS. , 2014, , .		5
126	Electronic Two-Dimensional Beam Steering for Integrated Optical Phased Arrays. , 2014, , .		5

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127	A Sub-Picosecond Hybrid DLL for Large-Scale Phased Array Synchronization. , 2018, , .		5
128	Dynamically Programmable Magnetic Fields for Controlled Movement of Cells Loaded with Iron Oxide Nanoparticles. ACS Applied Bio Materials, 2020, 3, 4139-4147.	2.3	5
129	A Framework for Array Shape Reconstruction Through Mutual Coupling. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4422-4436.	2.9	5
130	Discretization of annular-ring diffraction pattern for large-scale photonics beamforming. Photonics Research, 2022, 10, 1177.	3.4	5
131	Achieving full grating-lobe-free field of view with low-complexity co-prime photonic beamforming transceivers. Photonics Research, 2022, 10, A66.	3.4	5
132	Large-Scale Crosstalk-Corrected Thermo-Optic Phase Shifter Arrays in Silicon Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-9.	1.9	5
133	A Spectral-Scanning Magnetic Resonance Imaging (MRI) Integrated System. , 2007, , .		4
134	The future of high frequency circuit design. , 2009, , .		4
135	Dynamic Polarization Control of integrated radiators. , 2014, , .		4
136	Analysis of a balanced analog multiplier for an arbitrary number of signed inputs. International Journal of Circuit Theory and Applications, 2017, 45, 483-501.	1.3	4
137	A 0.3ppm dual-resonance transformer-based drift-cancelling reference-free magnetic sensor for biosensing applications. , 2018, , .		4
138	Proximal-Field Radiation Sensors for Millimeter-Wave Integrated Radiators. , 2018, , .		4
139	Compact, High Extinction Ratio Silicon Mach-Zehnder Modulator with Corrugated Waveguides. , 2018, , .		4
140	Optically Synchronized Phased Arrays in CMOS. IEEE Journal of Solid-State Circuits, 2022, 57, 1578-1593.	3.5	4
141	Trade-Offs in Oscillator Phase Noise. , 2002, , 551-589.		3
142	A 24 GHz phased-array transmitter in 0.18Î¼m CMOS. , 2005, , .		3
143	The future of high frequency circuit design. , 2009, , .		3
144	A terahertz imaging receiver in 0.13μm SiGe BiCMOS technology. , 2011, , .		3

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145	An Adjustable Self-Equalizing Photo Detector. , 2015, , .		3
146	A 180-GHz CMOS down-converter MMIC for atmospheric remote sensing applications. , 2017, , .		3
147	Proximal-Field Sensing: In Situ Prediction of Far-Field Radiation for Integrated Radiators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3743-3756.	2.9	3
148	IQ Photonic Receiver for Coherent Imaging With a Scalable Aperture. IEEE Open Journal of the Solid-State Circuits Society, 2021, 1, 263-270.	2.0	3
149	Quadrature Subharmonic Coupled Oscillators for a 60GHz SiGe Scalable Phased Array. , 2006, , .		2
150	mm-Wave & Phased Arrays. , 2008, , .		2
151	A tunable concurrent 6-to-18GHz phased-array system in CMOS. , 2008, , .		2
152	A 7GHz wideband self-correcting quadrature VCO. , 2012, , .		2
153	An integrated multi-port driven radiating source. , 2013, , .		2
154	A self-equalizing photo detector. , 2014, , .		2
155	Automated design of a 3D printed waveguide surface coupler. , 2015, , .		2
156	Proximal-field radiation sensors. , 2017, , .		2
157	Self-equalizing photodiodes, a hybrid electro-optical approach to tackle bandwidth limitation in high-speed signaling. Optics Express, 2017, 25, 19137.	1.7	2
158	A Coupled Inductive Bridge for Magnetic Sensing Applications. , 2018, , .		2
159	A 28 GHz Optically Synchronized CMOS Phased Array with an Integrated Photodetector. , 2021, , .		2
160	Characterization of a Radiation-Pressure-Driven Micromechanical Oscillator. , 2006, , .		1
161	Digitally-Assisted Linearization of Wideband Direct Conversion Receivers. , 2008, , .		1
162	Digitally assisted equalization of third-order intermodulation products in wideband direct conversion receivers. International Journal of Microwave and Wireless Technologies, 2009, 1, 377-385.	1.5	1

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163	A compact self-similar power combining topology. , 2010, , .		1
164	A self-correcting quadrature voltage controlled oscillator. IEICE Electronics Express, 2014, 11, 20140684-20140684.	0.3	1
165	Differential optical ring modulator: Breaking the bandwidth/quality-factor trade-off. , 2015, , .		1
166	Monolithic Mach-Zehnder Interferometer Modulator in an unmodified CMOS process. , 2015, , .		1
167	A Photodetector-Driven Coherent RF Array with Wide Tuning Range. , 2019, , .		1
168	Passively Controllable Smart Antennas. , 2010, , .		0
169	Timing inaccuracy of clocks. , 2011, , .		0
170	Distributed Active Radiator arrays for efficient doubling, filtering, and beam-forming. , 2011, , .		0
171	Hybrid silicon photonics and electronics solutions for communications, sensing, and imaging. , 2015, , .		0
172	A compact spiral Mach-Zehnder Interferometer Modulator on SOI process. , 2015, , .		0
173	A 2×2 Dynamic Polarization-Controlling integrated phased array. , 2015, , .		0
174	Hybrid electro-optical solutions for high-speed connectivity (invited). , 2015, , .		0
175	THz signal generation, radiation, and beam-forming in silicon. , 2016, , 485-518.		0
176	Self-healing for silicon-based mm-wave power amplifiers. , 0, , 419-456.		0
177	A Chip-Scale Nanophotonic Optical Gyroscope. , 2019, , .		0
178	Holistic Approaches for Power Generation, Linearization, and Radiation in CMOS. , 2015, , 1-34.		0
179	Lensless imaging using silicon photonics optical phased arrays receivers (Conference Presentation). , 2018, , .		0
180	A Compact, Low-Drive-Voltage Mach-Zehnder Modulator Using Serially-Coupled Rings. , 2021, , .		0

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181	Integrated Phased Arrays. , 0, , 597-649.		0