

Horst K Zimmermann

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.

207 papers	1,565 citations	19 h-index	33 g-index
274 ext. papers	1,976 ext. citations	2 avg, IF	4.96 L-index

#	Paper	IF	Citations
207	Cascoded Active Quencher for SPADs with Bipolar Differential Amplifier in 0.35m BiCMOS. <i>IEEE Photonics Journal</i> , 2022 , 1-1	1.8	1
206	Bit Error Performance of APD and SPAD Receivers in Optical Wireless Communication. <i>Electronics (Switzerland)</i> , 2021 , 10, 2731	2.6	0
205	Transconductance Boosting Technique for Bandwidth Extension in Low-Voltage and Low-Noise Optical TIAs. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	
204	A 40 μ W/30 mW generated power, 280 μ A/68 k Ω load resistance CMOS controllable constant-power source for thermally-based sensor applications. <i>Analog Integrated Circuits and Signal Processing</i> , 2021 , 106, 593-613	1.2	
203	High Slew-Rate Quadruple-Voltage Mixed-Quenching Active-Resetting Circuit for SPADs in 0.35- μ m CMOS for Increasing PDP. <i>IEEE Solid-State Circuits Letters</i> , 2021 , 4, 18-21	2	1
202	Integrated Fast-Sensing Triple-Voltage SPAD Quenching/Resetting Circuit for Increasing PDP. <i>IEEE Photonics Technology Letters</i> , 2021 , 33, 139-142	2.2	1
201	Optical and Electrical Characterization and Modeling of Photon Detection Probability in CMOS Single-Photon Avalanche Diodes. <i>IEEE Sensors Journal</i> , 2021 , 21, 7572-7580	4	4
200	Photon detection probability enhancement using an anti-reflection coating in CMOS-based SPADs. <i>Applied Optics</i> , 2021 , 60, 7815-7820	1.7	1
199	Area and Power Efficient 38.8-GHz IR-UWB Transmitter With Spectrum Tunability. <i>IEEE Microwave and Wireless Components Letters</i> , 2020 , 30, 39-42	2.6	2
198	Performance of high-voltage CMOS single-photon avalanche diodes with and without well-modulation technique. <i>Optical Engineering</i> , 2020 , 59, 1	1.1	4
197	PIN photodiode-based active pixel for a near-infrared imaging application in 0.35- μ m CMOS. <i>Optical Engineering</i> , 2020 , 59, 1	1.1	
196	Avalanche Transients of Thick 0.35 μ m CMOS Single-Photon Avalanche Diodes. <i>Micromachines</i> , 2020 , 11,	3.3	1
195	Fully integrated optical receiver using single-photon avalanche diodes in high-voltage CMOS. <i>Optical Engineering</i> , 2020 , 59, 1	1.1	
194	Ultra-low power low-complexity 37.5 GHz IR-UWB transmitter with spectrum tunability. <i>IET Circuits, Devices and Systems</i> , 2020 , 14, 521-527	1.1	5
193	APD and SPAD Receivers : Invited Paper 2019 ,		8
192	A 54.2-dB Current Gain Dynamic Range, 1.78-GHz Gain-Bandwidth Product CMOS VCCA2. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 46-50	3.5	2
191	PWM-Driven Thermally Tunable Silicon Microring Resonators: Design, Fabrication, and Characterization. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800275	8.3	17

190	PIN-photodiode based active pixel in 0.35 μ m high-voltage CMOS for optical coherence tomography 2019 ,		2
189	Optical wireless APD receivers in 0.35 μ m HV CMOS technology with large detection area. <i>Optics Express</i> , 2019 , 27, 11930-11945	3.3	5
188	1.3 V supply voltage, high bandwidth, 100 nA minimum amplitude BiCMOS voltage-controlled current source. <i>Analog Integrated Circuits and Signal Processing</i> , 2019 , 98, 209-219	1.2	
187	Statistical Study of Intrinsic Parasitics in an SPAD-Based Integrated Fiber Optical Receiver. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 497-504	2.9	5
186	Integrated Reconfigurable Silicon Photonics Switch Matrix in IRIS Project: Technological Achievements and Experimental Results. <i>Journal of Lightwave Technology</i> , 2019 , 37, 345-355	4	11
185	A 3D Photonic-Electronic Integrated Transponder Aggregator With 48times 16 Heater Control Cells. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 681-684	2.2	8
184	Single-Photon Avalanche Photodiode Based Fiber Optic Receiver for Up to 200 Mb/s. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-8	3.8	23
183	Experimental Investigation of the Joint Influence of Reduced Supply Voltage and Charge Sharing on Single-Event Transient Waveforms in 65-nm Triple-Well CMOS. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 1908-1913	1.7	4
182	A Fully Integrated SPAD-Based CMOS Data-Receiver With a Sensitivity of -84 dBm at 20 Mb/s. <i>IEEE Solid-State Circuits Letters</i> , 2018 , 1, 2-5	2	10
181	Evidence of Pulse Quenching in AND and OR Gates by Experimental Probing of Full Single-Event Transient Waveforms. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 382-390	1.7	5
180	Temperature Dependence of Dark Count Rate and After Pulsing of a Single-Photon Avalanche Diode with an Integrated Active Quenching Circuit in 0.35 μ m CMOS. <i>Journal of Sensors</i> , 2018 , 2018, 1-7		5
179	Influence of On-Off Keying Duty Cycle on BER in Wireless Optical Communication Up to 75 Mbit/s Using an SPAD and a RC LED 2018 ,		1
178	Determination of the excess noise of avalanche photodiodes integrated in 0.35- μ m CMOS technologies. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	2
177	Circuits for Electronic-Photonic Integration. <i>Springer Series in Advanced Microelectronics</i> , 2018 , 407-433	1	
176	Basics and Theory. <i>Springer Series in Advanced Microelectronics</i> , 2018 , 1-24	1	
175	Design of Integrated Optical Receiver Circuits. <i>Springer Series in Advanced Microelectronics</i> , 2018 , 121-167		
174	SiGe Photodetectors. <i>Springer Series in Advanced Microelectronics</i> , 2018 , 115-120	1	
173	Detectors in Thin Crystalline Silicon Films. <i>Springer Series in Advanced Microelectronics</i> , 2018 , 105-113	1	

172	Integrated Silicon Photodetectors. <i>Springer Series in Advanced Microelectronics</i> , 2018 , 25-104	1	
171	Examples of Optoelectronic Integrated Circuits. <i>Springer Series in Advanced Microelectronics</i> , 2018 , 169-405		
170	Visible light communication at 50 Mbit/s using a red LED and an SPAD receiver 2018 ,		4
169	Modeling and Analysis of BER Performance in a SPAD-Based Integrated Fiber Optical Receiver. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-11	1.8	5
168	A DC-to-8.5 GHz 32 : 1 Analog Multiplexer for On-Chip Continuous-Time Probing of Single-Event Transients in a 65-nm CMOS. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2017 , 64, 377-383	3.5	3
167	Experimental Investigation of Single-Event Transient Waveforms Depending on Transistor Spacing and Charge Sharing in 65-nm CMOS. <i>IEEE Transactions on Nuclear Science</i> , 2017 , 64, 2136-2143	1.7	12
166	Latch-Type Optical Receiver With Integrated pin Photodiodes. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 675-678	2.2	
165	A new sampling technique for Monte Carlo-based statistical circuit analysis 2017 ,		1
164	Integrated fiber optical receiver reducing the gap to the quantum limit. <i>Scientific Reports</i> , 2017 , 7, 2652	4.9	26
163	Laser Diode Current Driver With $(1-t/T)^{-1}$ Time Dependence in 0.35- μm BiCMOS Technology For Quantum Random Number Generators. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2017 , 64, 510-514	3.5	3
162	Optical wireless monolithically integrated receiver with large-area APD and dc current rejection 2017 ,		2
161	Optimized silicon CMOS reach-through avalanche photodiode with 2.3-GHz bandwidth. <i>Optical Engineering</i> , 2017 , 56, 1	1.1	3
160	Optical wireless communication using a fully integrated 400 μm diameter APD receiver. <i>Journal of Engineering</i> , 2017 , 2017, 506-511	0.7	9
159	OWC using a monolithically integrated 200 μm APD OEIC in 0.35 μm BiCMOS technology. <i>Optics Express</i> , 2016 , 24, 918-23	3.3	6
158	Discrete Photodiodes. <i>Springer Series in Advanced Microelectronics</i> , 2016 , 59-65	1	
157	Laser and Modulator Drivers. <i>Springer Series in Advanced Microelectronics</i> , 2016 , 199-216	1	
156	Optical receivers in 0.35 μm BiCMOS for heterogeneous 3D integration 2016 ,		1
155	Integrated Photodiodes in Nanometer CMOS Technologies. <i>Springer Series in Advanced Microelectronics</i> , 2016 , 67-104	1	

154	Optoelectronic Circuits in Nanometer CMOS Technology. <i>Springer Series in Advanced Microelectronics</i> , 2016 , 217-240	1	3
153	Optoelectronic Circuits in Nanometer CMOS Technology. <i>Springer Series in Advanced Microelectronics</i> , 2016 ,	1	6
152	Equalizers. <i>Springer Series in Advanced Microelectronics</i> , 2016 , 163-182	1	
151	Highly sensitive 10 Gb/s PAM-4 optical receiver circuit for three-dimensional optoelectronic integration. <i>Journal of Engineering</i> , 2016 , 2016, 363-366	0.7	
150	Synchronous OEIC Integrating Receiver for Optically Reconfigurable Gate Arrays. <i>Sensors</i> , 2016 , 16,	3.8	2
149	Transimpedance Amplifiers. <i>Springer Series in Advanced Microelectronics</i> , 2016 , 105-161	1	1
148	400- μ m Diameter APD OEIC in 0.35- μ m BiCMOS. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 2004-2007	2.2	13
147	Why Optoelectronic Circuits in Nanometer CMOS?. <i>Springer Series in Advanced Microelectronics</i> , 2016 , 1-12	1	
146	10 Gb/s Switchable Binary/PAM-4 Receiver and Ring Modulator Driver for 3-D Optoelectronic Integration. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 344-352	3.8	4
145	Synchronous OEIC Integrating Receiver for ORGA Applications. <i>Procedia Engineering</i> , 2016 , 168, 1291-1295		
144	. <i>IEEE Journal of Solid-State Circuits</i> , 2016 , 51, 1663-1673	5.5	18
143	Design and Implementation of an Integrated Reconfigurable Silicon Photonics Switch Matrix in IRIS Project. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 155-168	3.8	33
142	Optical Communications Fundamentals. <i>Springer Series in Advanced Microelectronics</i> , 2016 , 13-35	1	
141	Building reliable systems-on-chip in nanoscale technologies. <i>Elektrotechnik Und Informationstechnik</i> , 2015 , 132, 301-306	0.4	
140	45-channel monolithically integrated, high-temperature capable optical receiver with a total data rate of 140 Gbit / s. <i>Optical Engineering</i> , 2015 , 54, 067111	1.1	1
139	. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 482-485	2.2	21
138	A Nonlinear Average-Current-Controlled Multiphase Boost Converter With Monolithically Integrated Control and Low-Side Power Switches in 0.35- μ m HV CMOS for the Automotive Sector. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2015 , 3, 405-421	5.6	2
137	Thick detection zone single-photon avalanche diode fabricated in 0.35 μ m complementary metal-oxide semiconductors. <i>Optical Engineering</i> , 2015 , 54, 050503	1.1	2

136	Monolithically integrated optical random pulse generator in high voltage CMOS technology 2015 ,		4
135	Optical wireless receiver circuit with integrated APD and high background-light immunity 2015 ,		2
134	Integrated Pulsewidth Modulation Control for a Scalable Optical Switch Matrix. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-7	1.8	11
133	Improvement of CMOS-Integrated Vertical APDs by Applying Lateral Well Modulation. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1907-1910	2.2	4
132	Monolithically integrated avalanche photodiode receiver in 0.35 μ m bipolar complementary metal oxide semiconductor. <i>Optical Engineering</i> , 2015 , 54, 110502	1.1	2
131	10 Gb/s 4-PAM Ring Modulator Driver 2015 ,		2
130	On Optimal Latin Hypercube Design for Yield Analysis of Analog Circuits 2015 ,		3
129	Comparators in 65 nm CMOS. <i>Springer Series in Advanced Microelectronics</i> , 2015 , 215-237	1	
128	Conclusion and Comparison. <i>Springer Series in Advanced Microelectronics</i> , 2015 , 239-245	1	
127	Comparators in 120 nm CMOS. <i>Springer Series in Advanced Microelectronics</i> , 2015 , 151-214	1	
126	8 Gbits/s inductorless transimpedance amplifier in 90 nm CMOS technology. <i>Analog Integrated Circuits and Signal Processing</i> , 2014 , 79, 27-36	1.2	8
125	A 10 Gb/s 0.25 μ m SiGe modulator driver for photonic-integration. <i>Analog Integrated Circuits and Signal Processing</i> , 2014 , 79, 15-25	1.2	1
124	0.35 μ m CMOS avalanche photodiode with high responsivity and responsivity-bandwidth product. <i>Optics Letters</i> , 2014 , 39, 586-9	3	15
123	Silicon carrier depletion modulator with 10 Gbit/s driver realized in high-performance photonic BiCMOS. <i>Laser and Photonics Reviews</i> , 2014 , 8, 180-187	8.3	25
122	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 391-400	3.8	19
121	Linear Mode Avalanche Photodiode With High Responsivity Integrated in High-Voltage CMOS. <i>IEEE Electron Device Letters</i> , 2014 , 35, 897-899	4.4	25
120	Automated alignment system for optical wireless communication systems using image recognition. <i>Optics Letters</i> , 2014 , 39, 4045-8	3	10
119	Vertical triple-junction RGB optical sensor with signal processing based on the determination of the space-charge region borders. <i>Optics Letters</i> , 2014 , 39, 5042-5	3	3

118	CMOS integrated MPP tracker with analog power measurement at the PV converter input. <i>Analog Integrated Circuits and Signal Processing</i> , 2014 , 79, 385-393	1.2	2
117	Corrections to Optical Wireless Communication With Adaptive Focus and MEMS-Based Beam Steering [Aug 1 2013 1428-1431]. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 2411-2411	2.2	1
116	A monolithically integrated silicon modulator with a 10 Gb/s 5 Vpp or 5.6 Vpp driver in 0.25 μ m SiGe:C BiCMOS. <i>Frontiers in Physics</i> , 2014 , 2,	3.9	1
115	Gm-C Filters. <i>Springer Series in Advanced Microelectronics</i> , 2014 , 39-65	1	
114	Current-Mode Filters. <i>Springer Series in Advanced Microelectronics</i> , 2014 , 67-117	1	1
113	Analog Filters. <i>Springer Series in Advanced Microelectronics</i> , 2014 , 3-11	1	
112	Operational Transconductance Amplifiers (OTAs). <i>Springer Series in Advanced Microelectronics</i> , 2014 , 27-38	1	
111	Highly sensitive 2 Gb/s optoreceiver with CMOS compatible avalanche photodiode 2014 ,		3
110	Linear Mode Avalanche Photodiode With 1-GHz Bandwidth Fabricated in 0.35- μ m CMOS. <i>IEEE Photonics Technology Letters</i> , 2014 , 26, 1511-1514	2.2	11
109	BiCMOS-integrated photodiode exploiting drift enhancement. <i>Optical Engineering</i> , 2014 , 53, 087103	1.1	2
108	Avalanche photodiode with high responsivity in 0.35 μ m CMOS. <i>Optical Engineering</i> , 2014 , 53, 043105	1.1	3
107	Investigation of the distance error induced by cycle-to-cycle jitter in a correlating time-of-flight distance measurement system. <i>Optical Engineering</i> , 2014 , 53, 073104	1.1	5
106	pn photodiode in 0.35 - μ m high-voltage CMOS with 1.2-GHz bandwidth. <i>Optical Engineering</i> , 2014 , 53, 116114	1.1	3
105	Analog Filters in Nanometer CMOS. <i>Springer Series in Advanced Microelectronics</i> , 2014 ,	1	4
104	Phototransistor noise model based on noise measurements on PNP PIN phototransistors. <i>Optical and Quantum Electronics</i> , 2014 , 46, 1269-1275	2.4	3
103	Operational Amplifier RC Low-Pass Filter. <i>Springer Series in Advanced Microelectronics</i> , 2014 , 119-153	1	
102	CMOS Technology. <i>Springer Series in Advanced Microelectronics</i> , 2014 , 13-25	1	
101	On frequency response and stability of an optical front-end with variable-gain current amplifier using a bipolar junction transistor translinear loop. <i>International Journal of Circuit Theory and Applications</i> , 2013 , 41, 792-817	2	

100	Optical Receiver Using Noise Cancelling With an Integrated Photodiode in 40 nm CMOS Technology. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013 , 60, 1929-1936	3.9	20
99	Optical Communication over Plastic Optical Fibers. <i>Springer Series in Optical Sciences</i> , 2013 ,	0.5	10
98	Low-power 10 Gb/s inductorless inverter based common-drain active feedback transimpedance amplifier in 40 nm CMOS. <i>Analog Integrated Circuits and Signal Processing</i> , 2013 , 76, 367-376	1.2	32
97	10Gb/s inverter based cascode transimpedance amplifier in 40nm CMOS technology 2013 ,		13
96	Optoelectronic integrated circuit for indoor optical wireless communication with adjustable beam 2013 ,		1
95	On fully differential and complementary single-stage self-biased CMOS differential amplifiers 2013 ,		2
94	Avalanche Double Photodiode in 40-nm Standard CMOS Technology. <i>IEEE Journal of Quantum Electronics</i> , 2013 , 49, 350-356	2	27
93	Correction of the temperature induced error of the illumination source in a time-of-flight distance measurement setup 2013 ,		2
92	An infrastructure for accurate characterization of single-event transients in digital circuits. <i>Microprocessors and Microsystems</i> , 2013 , 37, 772-791	2.4	4
91	Nonlinear Current Control for Power Electronic Converters: IC Design Aspects and Implementation. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 4910-4916	7.2	8
90	A 40 nm LP CMOS self-biased continuous-time comparator with sub-100ps delay at 1.1V & 1.2mW 2013 ,		1
89	Dynamic Integrated MPP Tracker in 0.35 μ m CMOS. <i>IEEE Transactions on Power Electronics</i> , 2013 , 28, 2886-2894	7.2	24
88	CMOS chip with multi junction photo detector for sensing biomedical signals 2013 ,		1
87	Supply Voltage Dependent On-Chip Single-Event Transient Pulse Shape Measurements in 90-nm Bulk CMOS Under Alpha Irradiation. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 2640-2646	1.7	9
86	. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 1428-1431	2.2	41
85	Correction of a phase dependent error in a time-of-flight range sensor 2013 ,		2
84	A background light resistant TOF range finder with integrated PIN photodiode in 0.35 μ m CMOS 2013 ,		3
83	FPGA based time-of-flight 3D camera characterization system 2013 ,		3

82 Clocked Nanometer CMOS Comparators **2013**, 171-192

81 Electronics-Based 3D Sensors **2013**, 39-68

80 1.25 Gbit/s Over 50 m Step-Index Plastic Optical Fiber Using a Fully Integrated Optical Receiver With an Integrated Equalizer. *Journal of Lightwave Technology*, **2012**, 30, 118-122 4 37

79 2.5Gbit/s transimpedance amplifier using noise cancelling for optical receivers **2012**, 9

78 Phototransistor based Time-of-Flight range finding sensor in an 180 nm CMOS process **2012**, 1

77 Pulse Shape Measurements by On-Chip Sense Amplifiers of Single Event Transients Propagating Through a 90 nm Bulk CMOS Inverter Chain. *IEEE Transactions on Nuclear Science*, **2012**, 59, 2778-2784 1.7 17

76 Analytical analysis of a p-n junction with arbitrary shaped doping profile **2012**, 2

75 A fully complementary and fully differential self-biased asynchronous CMOS comparator **2012**, 1

74 A 10Gb/s inductorless push pull current mirror transimpedance amplifier **2012**, 1

73 Comparator-Controlled Rectification at Monolithic Buck Converters for Higher Input Voltages. *IEEE Transactions on Power Electronics*, **2012**, 27, 628-631 7.2 4

72 Passive mixer with OPA filter for DVB-H front-end in 65nm digital CMOS technology. *Microelectronics Journal*, **2012**, 43, 975-979 1.8 2

71 Real-Time 1.25-Gb/s Transmission Over 50-m SI-POF Using a Green Laser Diode. *IEEE Photonics Technology Letters*, **2012**, 24, 1331-1333 2.2 13

70 Time-Of-Flight range finding sensor using an integrated PNP PIN Phototransistor in 180 nm CMOS **2012**, 2

69 Photovoltaic energy harvesting for hybrid/electric vehicles: Topology comparison and optimisation of a discrete power stage for European Efficiency **2012**, 2

68 A maximum power-point tracker without digital signal processing in 0.35µm CMOS for automotive applications **2012**, 4

67 Double-Gilbert mixer with enhanced linearity in 65 nm low-power CMOS technology. *Analog Integrated Circuits and Signal Processing*, **2012**, 71, 313-317 1.2 0

66 40Gbit/s germanium waveguide photodetector on silicon **2012**, 1

65 Zero-bias 40Gbit/s germanium waveguide photodetector on silicon. *Optics Express*, **2012**, 20, 1096-101 3.3 280

64	Charging multiple batteries using the boost-flyback converter 2012 ,		2
63	10Gbit/s 2mW inductorless transimpedance amplifier 2012 ,		16
62	A 78.4 dB Photo-Sensitivity Dynamic Range, 285 T\$Omega\$Hz Transimpedance Bandwidth Product BiCMOS Optical Sensor for Optical Storage Systems. <i>IEEE Journal of Solid-State Circuits</i> , 2011 , 46, 1170-1182	5.5	7
61	A 0.18 μ m CMOS transimpedance amplifier with 26 dB dynamic range at 2.5 Gb/s. <i>Microelectronics Journal</i> , 2011 , 42, 1136-1142	1.8	14
60	A BJT translinear loop based optoelectronic integrated circuit with variable transimpedance for optical storage systems. <i>Analog Integrated Circuits and Signal Processing</i> , 2011 , 66, 293-298	1.2	2
59	Sunlight-proof optical distance measurements with a dual-line lock-in time-of-flight sensor. <i>Analog Integrated Circuits and Signal Processing</i> , 2011 , 68, 59-68	1.2	2
58	High dynamic range background light suppression for a TOF distance measurement sensor in 180nm CMOS 2011 ,		5
57	High-speed PNP PIN phototransistors in a 0.18 μ m CMOS process 2011 ,		1
56	An 85dB dynamic range transimpedance amplifier in 40nm CMOS technology 2011 ,		5
55	High-Gain Double-Bulk Mixer in 65 nm CMOS with 830 pW Power Consumption. <i>ETRI Journal</i> , 2010 , 32, 457-459	1.4	1
54	A low-voltage complementary metal-oxide semiconductor adapter circuit suitable for input rail-to-rail operation. <i>International Journal of Electronics</i> , 2010 , 97, 1283-1309	1.2	2
53	TOF range finding sensor in 90nm CMOS capable of suppressing 180 klx ambient light 2010 ,		3
52	A 16\$, times \$16 Pixel Distance Sensor With In-Pixel Circuitry That Tolerates 150 klx of Ambient Light. <i>IEEE Journal of Solid-State Circuits</i> , 2010 , 45, 1345-1353	5.5	39
51	Integrated Silicon Optoelectronics. <i>Springer Series in Optical Sciences</i> , 2010 ,	0.5	38
50	An integrated optical receiver for 2.5Gbit/s using 4-PAM signaling 2010 ,		5
49	A mixer-filter combination of a direct conversion receiver for DVB-H applications in 65nm CMOS 2010 ,		1
48	An integrated low power buck converter with a comparator controlled low-side switch 2010 ,		4
47	Integrated phototransistors in a CMOS process for optoelectronic integrated circuits 2010 ,		3

46	Range finding sensor in 90nm CMOS with bridge correlator based background light suppression 2010 ,		9
45	HELIOS: photonics electronics functional integration on CMOS 2010 ,		2
44	High-End Silicon Photodiode Integrated Circuits 2010 , 707-730		
43	Rail-to-rail BiCMOS operational amplifier using input signal adapters with floating outputs. <i>Analog Integrated Circuits and Signal Processing</i> , 2010 , 63, 433-449	1.2	3
42	A 2B2 range-finding sensor array with pixel-inherent suppression of ambient light up to 120klx 2009 ,		3
41	A current-mode continuous-time filter for software defined radio solutions. <i>Analog Integrated Circuits and Signal Processing</i> , 2009 , 58, 27-33	1.2	1
40	A rail-to-rail input stage with constant signal behavior in 0.12 μ m CMOS. <i>Analog Integrated Circuits and Signal Processing</i> , 2009 , 58, 19-26	1.2	
39	A 122 THz transimpedance bandwidth product BiCMOS optical sensor front-end with a 54.7 dB voltage-controlled photo-sensitivity range. <i>Analog Integrated Circuits and Signal Processing</i> , 2009 , 61, 19-33	1.2	4
38	A 1GHz-GBW operational amplifier for DVB-H receivers in 65nm CMOS 2009 ,		3
37	A Comparator With Reduced Delay Time in 65-nm CMOS for Supply Voltages Down to 0.65 V. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2009 , 56, 810-814	3.5	66
36	Blue-Enhanced PIN Finger Photodiodes in a 0.35- μ m SiGe BiCMOS Technology. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1656-1658	2.2	4
35	Basics of Optical Emission and Absorption. <i>Springer Series in Optical Sciences</i> , 2009 , 1-9	0.5	3
34	A 65nm CMOS comparator with modified latch to achieve 7GHz/1.3mW at 1.2V and 700MHz/47pW at 0.6V 2009 ,		23
33	Extraneous-light resistant multipixel range sensor based on a low-power correlating pixel-circuit 2009 ,		12
32	A low-voltage low-power fully differential rail-to-rail input/output opamp in 65-nm CMOS 2008 ,		1
31	Continuous-Time Common-Mode Feedback Circuit for Applications with Large Output Swing and High Output Impedance 2008 ,		4
30	Efficient four-stage frequency compensation for low-voltage amplifiers 2008 ,		5
29	Low-Voltage Low-Power Highly Linear Down-Sampling Mixer in 65nm Digital CMOS Technology 2008 ,		2

28	Optical Receiver With Widely Tunable Sensitivity in BiCMOS Technology. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 1223-1236	3.9	8
27	Integrated optical receiver for lens-less free-space communication 2008 ,		2
26	BiCMOS phototransistors 2008 ,		2
25	A clocked, regenerative comparator in 0.12 μ m CMOS with tunable sensitivity. <i>Solid-State Circuits Conference, 2008 ESSCIRC 2008 34th European</i> , 2007 ,		3
24	A design example of a 65 nm CMOS operational amplifier. <i>International Journal of Circuit Theory and Applications</i> , 2007 , 35, 343-354	2	16
23	Fast transimpedance switching burst-mode CMOS optical receiver. <i>International Journal of Circuit Theory and Applications</i> , 2007 , 35, 355-370	2	2
22	Time-of-flight based pixel architecture with integrated double-cathode photodetector 2007 ,		2
21	A SiGe optical receiver with large-area photodiode 2007 ,		1
20	Low-Power BiCMOS Optical Receiver With Voltage-Controlled Transimpedance. <i>IEEE Journal of Solid-State Circuits</i> , 2007 , 42, 613-626	5.5	11
19	A 0.12 μ m CMOS Comparator Requiring 0.5V at 600MHz and 1.5V at 6GHz 2007 ,		8
18	Distance Measurement Line Sensor with PIN Photodiodes 2006 ,		3
17	A 3rd-Order 235MHz Low-Pass gmC-Filter in 120nm CMOS 2006 ,		3
16	. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , 2006 , 53, 1308-1312		
15	A Low-Power 4GHz Comparator in 120nm CMOS Technology with a Technique to tune Resolution 2006 ,		6
14	Integrated BiCMOS p-i-n Photodetectors With High Bandwidth and High Responsivity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006 , 12, 1469-1475	3.8	18
13	Optical receivers with large-diameter photodiode 2006 , 6183, 315		2
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