Mohamed Atef

List of Publications by Year
in descending order

77 papers	723 citations	758635 12 h-index	676716 22 g-index
78 all docs	78 docs citations	78 times ranked	507 citing authors

#	Article	IF	Citations
1	Towards a Continuous Non-Invasive Cuffless Blood Pressure Monitoring System Using PPG: Systems and Circuits Review. IEEE Circuits and Systems Magazine, 2018, 18, 6-26.	2.6	79
2	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.	2.7	48
3	Low-power 10ÂGb/s inductorless inverter based common-drain active feedback transimpedance amplifier in 40Ânm CMOS. Analog Integrated Circuits and Signal Processing, 2013, 76, 367-376.	0.9	42
4	A 61-nW Level-Crossing ADC With Adaptive Sampling for Biomedical Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 56-60.	2.2	42
5	A feature exploration methodology for learning based cuffless blood pressure measurement using photoplethysmography. , 2016, 2016, 6385-6388.		34
6	Avalanche Double Photodiode in 40-nm Standard CMOS Technology. IEEE Journal of Quantum Electronics, 2013, 49, 350-356.	1.0	33
7	Optical Receiver Using Noise Cancelling With an Integrated Photodiode in 40 nm CMOS Technology. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1929-1936.	3.5	32
8	A Fully Integrated High-Sensitivity Wide Dynamic Range PPG Sensor With an Integrated Photodiode and an Automatic Dimming Control LED Driver. IEEE Sensors Journal, 2018, 18, 652-659.	2.4	30
9	CMOS Transimpedance Amplifiers for Biomedical Applications: A Comparative Study. IEEE Circuits and Systems Magazine, 2020, 20, 12-31.	2.6	25
10	A 1-to-1-kHz, 4.2-to-544-nW, Multi-Level Comparator Based Level-Crossing ADC for IoT Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1390-1394.	2.2	21
11	Low-Power High-Sensitivity Photoplethysmography Sensor for Wearable Health Monitoring System. IEEE Sensors Journal, 2021, 21, 16141-16151.	2.4	21
12	10Gbit/s 2mW inductorless transimpedance amplifier. , 2012, , .		20
13	Optical Communication over Plastic Optical Fibers. Springer Series in Optical Sciences, 2013, , .	0.5	16
14	10Gb/s inverter based cascode transimpedance amplifier in 40nm CMOS technology. , 2013, , .		16
15	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.	1.3	15
16	2.5Gbit/s transimpedance amplifier using noise cancelling for optical receivers. , 2012, , .		13
17	PTT based continuous time non-invasive blood pressure system. , 2016, , .		13
18	Design technique for regulated cascode transimpedance amplifier using Gm/ID methodology. Microelectronics Journal, 2020, 95, 104676.	1.1	13

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19	2.5 Gbit/s compact transimpedance amplifier using active inductor in 130nm CMOS technology. , 2014, , .		11
20	Optoelectronic Circuits in Nanometer CMOS Technology. Springer Series in Advanced Microelectronics, 2016, , .	0.3	11
21	Optical receiver for multicarrier modulation in short-reach communication. Electronics Letters, 2010, 46, 225.	0.5	10
22	8ÂGbits/s inductorless transimpedance amplifier in 90Ânm CMOS technology. Analog Integrated Circuits and Signal Processing, 2014, 79, 27-36.	0.9	10
23	14.85 ÂµW Analog Front-End for Photoplethysmography Acquisition with 142-dBâ„¦ Gain and 64.2-pArms Noise. Sensors, 2019, 19, 512.	2.1	10
24	Gigabit transmission over PMMA step-index plastic optical fiber using an optical receiver for multilevel communication. , 2010, , .		9
25	Transimpedance amplifier with a compression stage for wide dynamic range optical applications. Microelectronics Journal, 2015, 46, 593-597.	1.1	9
26	An integrated optical receiver for multilevel data communication over large core step index plastic optical fiber. Analog Integrated Circuits and Signal Processing, 2011, 67, 3-9.	0.9	8
27	Current-reuse transimpedance amplifier with active inductor. , 2015, , .		8
28	InAs/GaAs quantum dot structures covered by InGaAs strain reducing layer characterized by photomodulated reflectance. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 147, 175-178.	1.7	7
29	Low-power transimpedance amplifier for near infrared spectroscopy. , 2016, , .		7
30	High-sensitivity regulated inverter cascode transimpedance amplifier for near infrared spectroscopy. , 2016, , .		7
31	Optical receiver front-end for multilevel signalling. Electronics Letters, 2009, 45, 121.	0.5	6
32	A gigabit fully integrated plastic optical fiber receiver for a RC-LED source. , 2012, , .		6
33	Optoelectronic Circuits in Nanometer CMOS Technology. Springer Series in Advanced Microelectronics, 2016, , 217-240.	0.3	6
34	An integrated optical receiver for 2.5Gbit/s using 4-PAM signaling. , 2010, , .		5
35	170Mb/s multilevel transmission over 115m standard step-index plastic optical fiber using an integrated optical receiver. Optics Communications, 2011, 284, 191-194.	1.0	5
36	High-speed photodiodes in 40nm standard CMOS technology. Sensors and Actuators A: Physical, 2013, 193, 213-219.	2.0	5

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37	Fully integrated wide dynamic range optical receiver for near infrared spectroscopy. Microelectronics Journal, 2019, 85, 92-97.	1.1	5
38	An Automatic Gain Control Front-End Optical Receiver for Multi-Level Data Transmission. , 2008, , .		4
39	An integrated optical receiver for multilevel data communication over plastic optical fiber. , 2009, , .		4
40	Optical receiver with large-area photodiode for multilevel modulation. Optical and Quantum Electronics, 2009, 41, 131-135.	1.5	4
41	An optical receiver for eight-level data communication over step index plastic optical fiber. Optics Communications, 2010, 283, 2350-2352.	1.0	4
42	Giga-bit optical receiver for plastic optical fibre. Optics Communications, 2010, 283, 391-395.	1.0	4
43	D6. Regulated cascode transimpedance amplifier based on a cascode inverter local feedback. , 2015, , .		4
44	Design framework for inverter cascode transimpedance amplifier using Gm/ID based PSO applying design equations. AEU - International Journal of Electronics and Communications, 2021, 142, 153985.	1.7	4
45	1Gbit/s transmission over step-index plastic optical fiber using an optical receiver with an integrated equalizer. Optics Communications, 2011, 284, 5153-5156.	1.0	3
46	Live demonstration: A support vector machine based hardware platform for blood pressure prediction. , 2016, , .		3
47	A 44Gbit/s Wide-Dynamic Range and High-Linearity Transimpedance Amplifier in 130nm BiCMOS Technology. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 438-440.	0.2	3
48	Ultra-Low Power High Sensitivity Photoplethysmography Sensor Based on Inverted Cascode Transimpedance Amplifier Using Quasi-Floating Gate. , 2019, , .		3
49	Introduction to the Special Issue on Wearable and Flexible Integrated Sensors for Screening, Diagnostics, and Treatment. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1300-1303.	2.7	3
50	High Dynamic Range Photocurrent Sensory Circuit with a Multi-Transistor Background Light Cancellation Loop for Photoplethysmography Sensing. Electronics (Switzerland), 2021, 10, 2769.	1.8	3
51	250â€…Mbit/s over 100â€…m SI-POF with RCLED source using integrated post-equaliser. Electronics Letters, 2012, 48, 718.	0.5	2
52	Low power transimpedance amplifier using current reuse with dual feedback. , 2015, , .		2
53	10 Gb/s 1.95 mW active cascode transimpedance amplifier for high speed optical receivers. , 2016, , .		2
54	Transferring electromyogram signal between limbs. , 2016, , .		2

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55	Live demonstration: A ring-type blood pressure monitoring system based on photoplesthygraphy. , 2017, , .		2
56	Low-noise high input impedance 8-channels chopper-stabilized EEG acquisition system. , 2017, , .		2
57	A low-cost 110 dB CMOS IF/limiter amplifier with offset cancellation. , 2003, , .		1
58	High gain transimpedance amplifier with current mirror load. , 2014, , .		1
59	Transimpedance Amplifiers. Springer Series in Advanced Microelectronics, 2016, , 105-161.	0.3	1
60	1.44 mW and 60 dB dynamic range optical receiver for near infrared spectroscopy. , 2016, , .		1
61	Hall sensor system design and modeling for current-measurement in power meters. , 2016, , .		1
62	A low-power high-sensitivity analog front-end for PPG sensor. , 2017, 2017, 861-864.		1
63	Cost-effective schemes for minimizing the delay dispersion of the comparator in level-crossing ADCs applications. Microelectronics Journal, 2022, 121, 105384.	1.1	1
64	Integrated equalizer for high-speed short-distance optical communication link. , 2014, , .		0
65	D4. Implementation of optical distance measurement using correlation-based and time stretching technique on digital signal controller. , 2015, , .		0
66	Basics of Photodiodes. Springer Series in Advanced Microelectronics, 2016, , 37-57.	0.3	0
67	Optical Communications Fundamentals. Springer Series in Advanced Microelectronics, 2016, , 13-35.	0.3	0
68	Discrete Photodiodes. Springer Series in Advanced Microelectronics, 2016, , 59-65.	0.3	0
69	Post Amplifiers. Springer Series in Advanced Microelectronics, 2016, , 183-197.	0.3	0
70	Laser and Modulator Drivers. Springer Series in Advanced Microelectronics, 2016, , 199-216.	0.3	0
71	Integrated Photodiodes in Nanometer CMOS Technologies. Springer Series in Advanced Microelectronics, 2016, , 67-104.	0.3	0
72	Equalizers. Springer Series in Advanced Microelectronics, 2016, , 163-182.	0.3	0

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73	An ultralow-power high-gain biopotential amplifier for electromyogram signal recording. , 2017, , .		0
74	A Low Power Programmable Gain Integrated Front-End for Electromyogram Signal Sensing. , 2018, , .		0
75	97 dB Dynamic Range CMOS Image Sensor Based on Diode Connected Load. , 2019, , .		0
76	Integrated Photodiodes in Nanometer CMOS Technologies. Electrical and Electronics Engineering an International Journal, 2014, 3, 141-160.	0.2	0
77	A 32GHz 68dBÎ© Low-Noise and Balance Operation Transimpedance Amplifier in 130nm SiGe BiCMOS for Optical Receivers. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 1408-1416.	0.2	0