

Alyosha Molnar

List of Publications by Citations

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44
papers

1,121
citations

17
h-index

33
g-index

53
ext. papers

1,345
ext. citations

3.4
avg, IF

4.5
L-index

#	Paper	IF	Citations
44	Low-Power 2.4-GHz Transceiver With Passive RX Front-End and 400-mV Supply. <i>IEEE Journal of Solid-State Circuits</i> , 2006 , 41, 2757-2766	5.5	190
43	Parallel processing in retinal ganglion cells: how integration of space-time patterns of excitation and inhibition form the spiking output. <i>Journal of Neurophysiology</i> , 2006 , 95, 3810-22	3.2	121
42	The In-Crowd Algorithm for Fast Basis Pursuit Denoising. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 4595-4605	4.8	92
41	Crossover inhibition in the retina: circuitry that compensates for nonlinear rectifying synaptic transmission. <i>Journal of Computational Neuroscience</i> , 2009 , 27, 569-90	1.4	63
40	Light field image sensors based on the Talbot effect. <i>Applied Optics</i> , 2009 , 48, 5897-905	0.2	60
39	Inhibitory feedback shapes bipolar cell responses in the rabbit retina. <i>Journal of Neurophysiology</i> , 2007 , 98, 3423-35	3.2	59
38	Optimized Design of N-Phase Passive Mixer-First Receivers in Wideband Operation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015 , 62, 2759-2770	3.9	55
37	Amacrine-to-amacrine cell inhibition in the rabbit retina. <i>Journal of Neurophysiology</i> , 2008 , 100, 2077-88	3.2	52
36	An Orthogonal Current-Reuse Amplifier for Multi-Channel Sensing. <i>IEEE Journal of Solid-State Circuits</i> , 2013 , 48, 1487-1496	5.5	40
35	Prospects for Wide Bandgap and Ultrawide Bandgap CMOS Devices. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4010-4020	2.9	38
34	A Light-Field Image Sensor in 180 nm CMOS. <i>IEEE Journal of Solid-State Circuits</i> , 2012 , 47, 257-271	5.5	33
33	A microscale camera using direct Fourier-domain scene capture. <i>Optics Letters</i> , 2011 , 36, 2949-51	3	33
32	Impedance, filtering and noise in n-phase passive CMOS mixers 2012 ,		30
31	ASP Vision: Optically Computing the First Layer of Convolutional Neural Networks Using Angle Sensitive Pixels 2016 ,		24
30	A switchable light field camera architecture with Angle Sensitive Pixels and dictionary-based sparse coding 2014 ,		20
29	A Wideband Fully Integrated Software-Defined Transceiver for FDD and TDD Operation. <i>IEEE Journal of Solid-State Circuits</i> , 2017 , 52, 1274-1285	5.5	18
28	2012 ,		17

27	Zero-power sensors with near-zero-power wakeup switches for reliable sensor platforms 2017 ,		14
26	Circuit Techniques for Enhanced Channel Selectivity in Passive Mixer-First Receivers 2018 ,		14
25	A 768-Channel CMOS Microelectrode Array With Angle Sensitive Pixels for Neuronal Recording. <i>IEEE Sensors Journal</i> , 2013 , 13, 3211-3218	4	14
24	A Low-Power Edge Detection Image Sensor Based on Parallel Digital Pulse Computation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2015 , 62, 1043-1047	3.5	13
23	Angle sensitive pixels in CMOS for lensless 3D imaging 2009 ,		12
22	A 72 \times 60 Angle-Sensitive SPAD Imaging Array for Lens-less FLIM. <i>Sensors</i> , 2016 , 16,	3.8	12
21	Design and Characterization of Enhanced Angle Sensitive Pixels. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 113-119	2.9	11
20	The Impact of LO Phase Noise in N-Path Filters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 1481-1494	3.9	11
19	A 50 μ m pitch, 1120-channel, 20kHz frame rate microelectrode array for slice recording 2013 ,		10
18	Dual light field and polarization imaging using CMOS diffractive image sensors. <i>Optics Letters</i> , 2015 , 40, 2433-6	3	8
17	Depth Fields: Extending Light Field Techniques to Time-of-Flight Imaging 2015 ,		7
16	Fluorescent imaging and localization with angle sensitive pixel arrays in standard CMOS 2010 ,		7
15	Enhanced angle sensitive pixels for light field imaging 2011 ,		7
14	PZT lateral bimorph based sensor cuboid for near zero power sensor nodes 2017 ,		6
13	A low-power orthogonal current-reuse amplifier for parallel sensing applications 2010 ,		6
12	Modeling and Circuit Design of Associative Memories With SpinOrbit Torque FETs. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2019 , 5, 197-205	2.4	4
11	Zero Power, Tunable Resonant Microphone with Nanowatt Classifier for Wake-Up Sensing 2018 ,		4
10	Angle sensitive single photon avalanche diode. <i>Applied Physics Letters</i> , 2015 , 106, 231105	3.4	2

9	2012,		2
8	A scalable CMOS sensor array for neuronal recording and imaging 2011,		2
7	Angle-sensitive pixels: a new paradigm for low-power, low-cost 2D and 3D sensing 2012,		2
6	Impedance Transparency and Performance Metrics of HBT-Based N-Path Mixers for mmWave Applications. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 1-14	3.9	2
5	Scaling Properties of Well-Tiled PFCAs 2012,		1
4	Self-quenching, Forward-bias-reset for Single Photon Avalanche Detectors in 1.8V, 0.18 μ m process 2011,		1
3	An Integrated, Software-Defined FDD Transceiver: Distributed Duplexing Theory and Operation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 271-283	3.9	1
2	A Polar Symmetric CMOS Image Sensor for Rotation Invariant Measurement. <i>IEEE Sensors Journal</i> , 2016 , 16, 1190-1199	4	
1	Introduction to the Special Issue on the 2017 IEEE International Solid-State Circuits Conference. <i>IEEE Journal of Solid-State Circuits</i> , 2017 , 52, 3115-3118	5.5	