

# Michael W Hoffman

## List of Publications by Year in descending order

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41  
papers

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citations

840776

11  
h-index

839539

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g-index

42  
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42  
docs citations

42  
times ranked

347  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Handheld Neutron-Detection Sensor System Utilizing a New Class of Boron Carbide Diode. IEEE Sensors Journal, 2006, 6, 1531-1538.	4.7	79
2	A CMOS Imager With Focal Plane Compression Using Predictive Coding. IEEE Journal of Solid-State Circuits, 2007, 42, 2555-2572.	5.4	59
3	Observations of the Small-Scale Variability of Precipitation Using an Imaging Radar. Journal of Atmospheric and Oceanic Technology, 2005, 22, 1122-1137.	1.3	43
4	Pulse pair beamforming and the effects of reflectivity field variations on imaging radars. Radio Science, 2004, 39, n/a-n/a.	1.6	42
5	Classification of Military Ground Vehicles Using Time Domain Harmonics' Amplitudes. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3720-3731.	4.7	41
6	A CMOS Image Sensor for Multi-Level Focal Plane Image Decomposition. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2561-2572.	5.4	35
7	A 1000 frames/s Vision Chip Using Scalable Pixel-Neighborhood-Level Parallel Processing. IEEE Journal of Solid-State Circuits, 2017, 52, 556-568.	5.4	29
8	Efficient Atmospheric Simulation for High-Resolution Radar Imaging Applications. Journal of Atmospheric and Oceanic Technology, 2004, 21, 374-378.	1.3	17
9	A Low-Power Directional Gamma-Ray Sensor System for Long-Term Radiation Monitoring. IEEE Sensors Journal, 2013, 13, 2610-2618.	4.7	14
10	Low-Power Analog Processing for Sensing Applications: Low-Frequency Harmonic Signal Classification. Sensors, 2013, 13, 9604-9623.	3.8	13
11	A Low-Power Compact NQR Based Explosive Detection System. IEEE Sensors Journal, 2014, 14, 497-507.	4.7	12
12	A 4- $\mu$ W CMOS Front End for Particle Detection Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 100-104.	3.0	11
13	The design of an ultra-low power buck regulator supporting dynamic voltage scaling for wireless sensor networks. , 2009, , .		10
14	A Low Complexity Radioisotope Identification System using an Integrated Multichannel Analyzer and Embedded Neural Network. , 2019, , .		9
15	A Single Chip Computational Sensor System for Neutron Detection Applications. IEEE Sensors Journal, 2010, 10, 1226-1233.	4.7	8
16	A Low-Power, Highly Integrated Radiation Detection System for Portable, Long-Duration Monitoring. IEEE Sensors Journal, 2020, 20, 10664-10678.	4.7	8
17	Efficient sensor network vehicle classification using peak harmonics of acoustic emissions. , 2008, , .		7
18	A low-power 10-bit multichannel analyzer chip for radiation detection. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
19	A Low-Power, Single-Chip Electronic Skin Interface for Prosthetic Applications. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 1186-1200.	4.0	6
20	A low-power CMOS front end for particle detection applications. , 2008, , .		5
21	A single chip computational sensor system for gamma isotope identification. , 2010, , .		5
22	Error Entropy and Mean Square Error Minimization for Lossless Image Compression. , 2006, , .		4
23	A CMOS Front-End for a Lossy Image Compression Sensor. , 2007, , .		4
24	A directional gamma ray detector using a single chip computational sensor. , 2011, , .		4
25	A programmable vision chip with pixel-neighborhood level parallel processing. , 2015, , .		4
26	Dual-Antenna RF CMOS Front-End for Interferer Removal in Ultra-Wideband Systems. Circuits, Systems, and Signal Processing, 2008, 27, 381-390.	2.0	3
27	A computational sensor system for particle detection applications. , 2009, , .		3
28	Digital Offset Cancellation for Long Time-Constant Subthreshold OTA-C Integrators. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 1038-1042.	3.0	3
29	A Low-Power, Single-Chip Electronic Skin Interface for Prosthetic Applications. , 2019, , .		3
30	Predictive coding on-sensor compression. , 2008, , .		2
31	A Low-Power Radiation Detection System for Portable, Long-Duration Monitoring. , 2018, , .		2
32	Toward a Low Power E-Skin Interface System on a Chip for Taxel Arrays. , 2020, , .		2
33	A CMOS image sensor with focal plane SPIHT image compression. , 2008, , .		1
34	A robust CMOS Receiver front-end for Nuclear Quadrupole Resonance based explosives detection. , 2010, , .		1
35	A low-power CMOS continuous-time LMS adaptive filter with robust DC-offset cancellation. , 2010, , .		1
36	An ultra low-power single chip intelligent sensing platform. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
37	Analog sensing front-end system for harmonic signal classification. , 2012, , .		1
38	The design of the baseband processor of a non-coherent UWB receiver. , 2009, , .		0
39	Detecting Source Regions of Wave Activities in the Tropical Atmosphere by Applying Beamforming to Interpolated Data Grids. Journal of Atmospheric and Oceanic Technology, 2009, 26, 270-280.	1.3	0
40	Live demonstration: Programmable vision chip with neighborhood level parallel processing. , 2016, , .		0
41	Real-time trajectory calculation and prediction using neighborhood-level parallel processing. , 2017, , .		0