John G Harris

List of Publications by Year
in descending order

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43 papers	1,166 citations	759233 12 h-index	677142 22 g-index
46 all docs	46 docs citations	46 times ranked	995 citing authors

#	Article	IF	Citations
1	Editorial: Bio-inspired Audio Processing, Models and Systems. Frontiers in Neuroscience, 2019, 13, 978.	2.8	0
2	The integrate-and-fire sampler: A special type of asynchronous Σ - Δ modulator. , 2011, , .		3
3	Integrate and fire circuit as an ADC replacement. , 2011, , .		18
4	The time machine: A novel spike-based computation architecture. , 2011, , .		3
5	Mean firing rate spike representations for speech recognition. , 2010, , .		0
6	A higher-order spectro-temporal integration model for predicting signal audibility. , 2010, , .		0
7	An adaptive neuron circuit for signal compression. , 2010, , .		1
8	Differential EEG. , 2009, , .		0
9	Biologically plausible speech recognition using spike-based phase locking cues. , 2009, , .		1
10	An integrated recording system using an asynchronous pulse representation. , 2009, , .		0
11	Timeâ€mode circuits for analog computation. International Journal of Circuit Theory and Applications, 2009, 37, 631-659.	2.0	31
12	A biphasic integrate-and-fire system. , 2009, , .		0
13	Stimulus reconstruction from the biphasic integrate-and-fire sampler. , 2009, , .		14
14	A sawtooth waveform inspired pitch estimator for speech and music. Journal of the Acoustical Society of America, 2008, 124, 1638-1652.	1.1	261
15	Technology and Signal Processing for Brain-Machine Interfaces. IEEE Signal Processing Magazine, 2008, 25, 29-40.	5.6	37
16	The time derivative neuron. , 2008, , .		2
17	A Pulse-Based Feature Extractor for Spike Sorting Neural Signals. , 2007, , .		12
18	A Precompensation Algorithm for PWM-Based Digital Audio Amplifiers for Portable Applications. , 2007, , .		4

#	Article	IF	Citations
19	A Pitch Estimation Algorithm Based on the Smooth Harmonic Average Peak-to-Valley Envelope. , 2007, , .		3
20	Noise-robust automatic speech recognition using a discriminative echo state network. , 2007, , .		8
21	Wireless, In Vivo Neural Recording using a Custom Integrated Bioamplifier and the Pico System. , 2007, , .		10
22	Automatic speech recognition using a predictive echo state network classifier. Neural Networks, 2007, 20, 414-423.	5.9	243
23	Noise-Robust Automatic Speech Recognition Using a Predictive Echo State Network. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 1724-1730.	3.2	66
24	Applied principles of clear and Lombard speech for automated intelligibility enhancement in noisy environments. Speech Communication, 2006, 48, 549-558.	2.8	73
25	Ascertaining the Importance of Neurons to Develop Better Brain-Machine Interfaces. IEEE Transactions on Biomedical Engineering, 2004, 51, 943-953.	4.2	95
26	Exploiting independent filter bandwidth of human factor cepstral coefficients in automatic speech recognition. Journal of the Acoustical Society of America, 2004, 116, 1774-1780.	1.1	66
27	The changing roles of analog and digital signal processing in CMOS image sensors. , 2002, , .		2
28	Increased mfcc filter bandwidth for noise-robust phoneme recognition. , 2002, , .		18
29	Diffraction by a slit in an infinite porous barrier. Wave Motion, 2001, 33, 25-40.	2.0	7
30	A Monaural Cue Sound Localizer. Analog Integrated Circuits and Signal Processing, 2000, 23, 163-172.	1.4	14
31	Analog Hardware Implementation of Continuous-Time Adaptive Filter Structures. Analog Integrated Circuits and Signal Processing, 1999, 18, 209-227.	1.4	10
32	Measurements of coupled Rayleigh wave propagation in an elastic plate. Journal of the Acoustical Society of America, 1997, 102, 1528-1531.	1.1	36
33	Spatio-temporal simulation in subthreshold CMOS. , 1997, , .		0
34	Modeling Scanned Acoustic Imaging of Defects at Solid Interfaces. The IMA Volumes in Mathematics and Its Applications, 1997, , 237-257.	0.5	0
35	An integrated model of scattering from an imperfect interface. Journal of the Acoustical Society of America, 1996, 99, 1315-1325.	1.1	8
36	Interrogating a Thin Layer of Heterogeneity with Confocal Transducers. , 1996, , 1027-1033.		1

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37	A model of a confocal ultrasonic inspection system for interfaces. Journal of the Acoustical Society of America, 1994, 96, 3581-3592.	1.1	4
38	An analog network for continuous-time segmentation. International Journal of Computer Vision, 1993, 10, 43-51.	15.6	5
39	Edge diffraction of a compressional beam. Journal of the Acoustical Society of America, 1987, 82, 635-646.	1.1	14
40	Recognition algorithms for the connection machine. Computational Intelligence, 1986, 2, 131-135.	3.2	2
41	Further studies of the scattering of a Gaussian beam from a fluidâ€“solid interface. Journal of the Acoustical Society of America, 1985, 78, 1072-1080.	1.1	29
42	Scattering of an acoustic Gaussian beam from a fluidâ€“solid interface. Journal of the Acoustical Society of America, 1984, 76, 1829-1838.	1.1	42
43	An acoustic lens design using the geometrical theory of diffraction. Journal of the Acoustical Society of America, 1984, 75, 1634-1635.	1.1	3