

# Mark F Bocko

## List of Publications by Year in descending order

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93  
papers

1,151  
citations

394421

19  
h-index

434195

31  
g-index

104  
all docs

104  
docs citations

104  
times ranked

774  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Adaptive Feedback Cancellation in Hearing Aids Based on Orthonormal Basis Functions With Prediction-Error Method Based Prewhitening. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 1260-1269. | 5.8 | 3         |
| 2  | Design rules for scalability in spin-orbit electronics. Scientific Reports, 2019, 9, 13732.  | 3.3 | 2         |
| 3  | Adaptive Feedback Cancellation for Hearing Aids Using the Prediction-Error Method with Orthonormal Basis Functions. , 2019, , .  |     | 0         |
| 4  | Inherently Stable Weighted Least-Squares Estimation of Common Acoustical Poles With the Application in Feedback Path Modeling Utilizing a Kautz Filter. IEEE Signal Processing Letters, 2018, 25, 368-372.               | 3.6 | 6         |
| 5  | Optimized Driver Placement for Array-Driven Flat-Panel Loudspeakers. Archives of Acoustics, 2017, 42, 93-104.  | 0.8 | 7         |
| 6  | Source rendering on dynamic audio displays. , 2017, , .  |     | 0         |
| 7  | gMRAM: Gain-cell magnetoresistive random access memory for high density embedded storage and in-situ computing. , 2017, , .  |     | 1         |
| 8  | Least-squares estimation of the common acoustical poles in room acoustics and head related transfer functions. , 2017, , .   |     | 2         |
| 9  | Flat-Panel Loudspeaker Simulation Model with Electromagnetic Inertial Exciters and Enclosures. AES: Journal of the Audio Engineering Society, 2017, 65, 722-732.   | 1.0 | 5         |
| 10 | Sound-Source Localization On Flat-Panel Loudspeakers. AES: Journal of the Audio Engineering Society, 2017, 65, 168-177.  | 1.0 | 10        |
| 11 | Modal Crossover Networks for Flat-Panel Loudspeakers. AES: Journal of the Audio Engineering Society, 2016, 64, 229-240.  | 1.0 | 13        |
| 12 | Measures of vibrational localization on point-driven flat-panel loudspeakers. Proceedings of Meetings on Acoustics, 2016, , .  | 0.3 | 8         |
| 13 | Playing in Time: Integrating Temporal Information in the Computational Measurement of Musical Similarity. Journal of Creative Music Systems, 2016, 1, .  | 1.0 | 0         |
| 14 | Terahertz detection in Si MOSFET based on thermionic emission. , 2015, , .   |     | 2         |
| 15 | Indirect-feedback Sigma-Delta CMOS image sensors with SAR-based startup. , 2015, , .   |     | 0         |
| 16 | Current Sensing-Assisted Active Pixel Sensor for High-Speed CMOS Image Sensors. IEEE Sensors Journal, 2015, 15, 4365-4372.   | 4.7 | 4         |
| 17 | Evaluating the Validity of an Automated Device for Asthma Monitoring for Adolescents: Correlational Design. Journal of Medical Internet Research, 2015, 17, e234.  | 4.3 | 20        |
| 18 | Automated Cough Assessment on a Mobile Platform. Journal of Medical Engineering, 2014, 2014, 1-9.  | 1.1 | 29        |



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|----|--|-----|-----------|
| 37 | Polyphonic music transcription employing max-margin classification of spectrographic features. , 2009, , .   |     | 2         |
| 38 | Optimal Spread Spectrum Watermark Embedding via a Multistep Feasibility Formulation. IEEE Transactions on Image Processing, 2009, 18, 371-387.                                     | 9.8 | 21        |
| 39 | An oversampling digital pixel sensor with a charge transfer DAC employing parasitic capacitances. , 2009, , .  |     | 3         |
| 40 | CMOS image sensor readout employing in-pixel transistor current sensing. , 2008, , .   |     | 7         |
| 41 | Improved embedding efficiency and AWGN robustness for SS watermarks via pre-coding. , 2008, , .  |     | 0         |
| 42 | Steganalysis aware steganography: statistical indistinguishability despite high distortion. , 2008, , .  |     | 3         |
| 43 | A CMOS Image Sensor with Focal Plane Discrete Cosine Transform Computation. , 2007, , .  |     | 4         |
| 44 | Collusion Resilient Fingerprint Design by Alternating Projections. , 2007, , .   |     | 1         |
| 45 | Unshunted QOS Comparator for Qubit Readout. Journal of Physics: Conference Series, 2006, 43, 1413-1416.  | 0.4 | 7         |
| 46 | Effect of Network Latency on Interactive Musical Performance. Music Perception, 2006, 24, 49-62.   | 1.1 | 37        |
| 47 | A Set Theoretic Framework for Watermarking and Its Application to Semifragile Tamper Detection. IEEE Transactions on Information Forensics and Security, 2006, 1, 479-492.         | 6.9 | 23        |
| 48 | Picosecond On-Chip Qubit Control Circuitry. IEEE Transactions on Applied Superconductivity, 2005, 15, 837-840.   | 1.7 | 12        |
| 49 | Thermometry Using Thermal Activation of Josephson Junctions at MilliKelvin Temperatures. IEEE Transactions on Applied Superconductivity, 2005, 15, 868-871.                        | 1.7 | 5         |
| 50 | An interface circuit for measuring capacitance changes based upon capacitance-to-duty cycle (CDC) converter. IEEE Sensors Journal, 2005, 5, 403-410.                               | 4.7 | 47        |
| 51 | Short-term frequency stability of clock generators for multigigahertz rapid-single-flux quantum digital circuits. IEEE Transactions on Applied Superconductivity, 2003, 13, 25-37. | 1.7 | 7         |
| 52 | Thermal design of superconducting digital circuits for millikelvin operation. IEEE Transactions on Applied Superconductivity, 2003, 13, 978-981.                                   | 1.7 | 5         |
| 53 | An RSFQ variable duty cycle oscillator for driving a superconductive qubit. IEEE Transactions on Applied Superconductivity, 2003, 13, 966-969.                                     | 1.7 | 18        |
| 54 | An unshunted comparator as a device for quantum measurements. IEEE Transactions on Applied Superconductivity, 2003, 13, 974-977.   | 1.7 | 11        |

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|----|---|------|-----------|
| 55 | Design of an RSFQ control circuit to observe MQC on an rf-SQUID. IEEE Transactions on Applied Superconductivity, 2001, 11, 1014-1017.   | 1.7  | 16        |
| 56 | A realistic experiment to demonstrate macroscopic quantum coherence. Physica C: Superconductivity and Its Applications, 2001, 350, 171-176.   | 1.2  | 19        |
| 57 | A tipping pulse scheme for a rf-SQUID qubit. IEEE Transactions on Applied Superconductivity, 2001, 11, 1018-1021.   | 1.7  | 9         |
| 58 | Isolation Structures for the Solid-State Quantum-to-Classical Interface. , 2001, , .  |      | 3         |
| 59 | A tipping pulse scheme for an rf-SQUID qubit. , 2001, , .   |      | 0         |
| 60 | Phase-locked operation of RSFQ ring oscillators. Superconductor Science and Technology, 1999, 12, 789-791.  | 3.5  | 1         |
| 61 | Short-term frequency stability of RSFQ ring oscillators. IEEE Transactions on Applied Superconductivity, 1999, 9, 3545-3548.  | 1.7  | 6         |
| 62 | Timing jitter and bit errors in a 64-bit circular shift register. IEEE Transactions on Applied Superconductivity, 1999, 9, 3721-3724.   | 1.7  | 15        |
| 63 | High-speed operation of a 64-bit circular shift register. IEEE Transactions on Applied Superconductivity, 1998, 8, 120-124.   | 1.7  | 11        |
| 64 | High speed testing of a four-bit RSFQ decimation digital filter. IEEE Transactions on Applied Superconductivity, 1997, 7, 2975-2978.  | 1.7  | 17        |
| 65 | RSFQ circular shift registers. IEEE Transactions on Applied Superconductivity, 1997, 7, 2832-2835.  | 1.7  | 21        |
| 66 | On the measurement of a weak classical force coupled to a harmonic oscillator: experimental progress. Reviews of Modern Physics, 1996, 68, 755-799.   | 45.6 | 178       |
| 67 | Design and testing of QOS comparators for an RSFQ based analog to digital converter. IEEE Transactions on Applied Superconductivity, 1995, 5, 2244-2247.  | 1.7  | 8         |
| 68 | Adder-accumulator cells in RSFQ logic. IEEE Transactions on Applied Superconductivity, 1995, 5, 3006-3009.  | 1.7  | 5         |
| 69 | Performance of an inertially coupled, three-mode gravitational wave antenna prototype. Review of Scientific Instruments, 1994, 65, 2627-2634.   | 1.3  | 5         |
| 70 | Multipump and quasistroboscopic back-action evasion measurements for resonant-bar gravitational-wave antennas. Physical Review D, 1992, 45, 1869-1877.  | 4.7  | 10        |
| 71 | Uncertainty-principle noise in vacuum-tunneling transducers. Physical Review B, 1992, 45, 3735-3743.  | 3.2  | 23        |
| 72 | Tunneling transducers: Quantum limited displacement monitors at the nanometer scale. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1991, 9, 1363. | 1.6  | 9         |

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|----|---|------|-----------|
| 73 | Coherent harmonic generation in superconductors for various critical-state models. <i>Physical Review B</i> , 1991, 44, 7726-7729.  | 3.2  | 8         |
| 74 | Proposed room-temperature detector for gravitational radiation from galactic sources. <i>Physical Review D</i> , 1990, 42, 2952-2955.   | 4.7  | 6         |
| 75 | Behavior of a nonlinear resonator driven at subharmonic frequencies. <i>Physical Review A</i> , 1990, 41, 619-625.  | 2.5  | 13        |
| 76 | The scanning tunneling microscope as a high-gain, low-noise displacement sensor. <i>Review of Scientific Instruments</i> , 1990, 61, 3763-3768.   | 1.3  | 27        |
| 77 | Reduced-noise nonreciprocal transducer based upon vacuum tunneling. <i>Physical Review A</i> , 1989, 40, 6615-6625.   | 2.5  | 16        |
| 78 | Beating the quantum limit in SIS mixers. <i>IEEE Transactions on Magnetics</i> , 1989, 25, 1376-1379.   | 2.1  | 8         |
| 79 | A RF superconducting electromechanical transducer for gravitational wave antennae. <i>IEEE Transactions on Magnetics</i> , 1989, 25, 1358-1361.   | 2.1  | 7         |
| 80 | New ways with gravitational waves. <i>Nature</i> , 1989, 338, 122-122.  | 27.8 | 0         |
| 81 | Parametric Transducers and Quantum Nondemolition in Bar Detectors. , 1989, , 125-134.   |      | 0         |
| 82 | Phase-sensitive amplification and deamplification of noise and the noise rise in period-doubling systems near a bifurcation. <i>Physical Review Letters</i> , 1988, 60, 1763-1766.                    | 7.8  | 23        |
| 83 | Vacuum Tunneling Probe: A Nonreciprocal, Reduced-Back-Action Transducer. <i>Physical Review Letters</i> , 1988, 61, 726-729.  | 7.8  | 57        |
| 84 | Observation of frequency shifts of spectral lines due to source correlations. <i>Physical Review Letters</i> , 1987, 58, 2649-2651.   | 7.8  | 78        |
| 85 | Progress in Back Action Evasion Experiments. <i>Annals of the New York Academy of Sciences</i> , 1986, 480, 250-262.  | 3.8  | 0         |
| 86 | Squeezed Noise in Precision Force Measurements. , 1986, , 47-56.  |      | 3         |
| 87 | Phase-sensitive parametric motion transducer. <i>Physical Review A</i> , 1984, 30, 2135-2137.   | 2.5  | 19        |
| 88 | Bounded regions of chaotic behavior in the control parameter space of a driven non-linear resonator. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1984, 104, 388-390. | 2.1  | 20        |
| 89 | Noise characteristics of a cryogenically cooled GaAs metal semiconductor field effect transistor at 4 MHz. <i>Review of Scientific Instruments</i> , 1984, 55, 256-257.                               | 1.3  | 9         |
| 90 | A proposed back action evading read-out for a gravitational wave detector. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1983, 97, 259-262.                            | 2.1  | 16        |

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|----|---|-----|-----------|
| 91 | Surpassing the Amplifier Limit for Force Detection. Physical Review Letters, 1982, 48, 1371-1374.               | 7.8 | 39        |
| 92 | Approaching the Quantum "Limit" for Force Detection. Physical Review Letters, 1981, 47, 1184-1187.              | 7.8 | 40        |
| 93 | A Method for Efficient Interpolation of Discrete-Time Signals By Using a Blue-Noise Mapping Method. ,<br>O, , . |     | 0         |