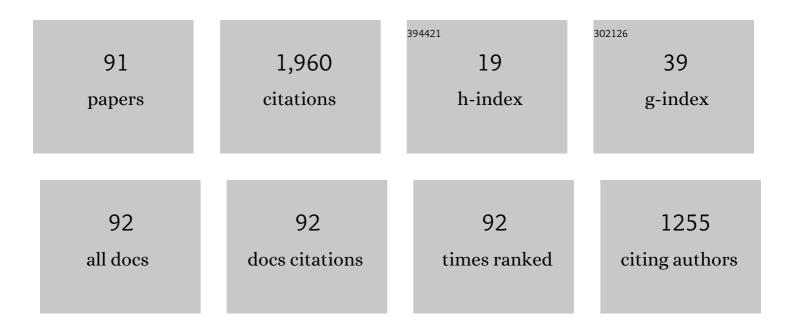
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Generalized translinear circuit principle. IEEE Journal of Solid-State Circuits, 1991, 26, 1098-1102.	5.4	201
2	MEMS based hair flow-sensors as model systems for acoustic perception studies. Nanotechnology, 2006, 17, S84-S89.	2.6	138
3	Artificial sensory hairs based on the flow sensitive receptor hairs of crickets. Journal of Micromechanics and Microengineering, 2005, 15, S132-S138.	2.6	128
4	BSM 7: RIE lag in high aspect ratio trench etching of silicon. Microelectronic Engineering, 1997, 35, 45-50.	2.4	125
5	A capacitive RF power sensor based on MEMS technology. Journal of Micromechanics and Microengineering, 2006, 16, 1099-1107.	2.6	102
6	Analysis and Synthesis of MOS Translinear Circuits. , 1993, , .		91
7	CMOS low-voltage operational amplifiers with constant-gm rail-to-rail input stage. Analog Integrated Circuits and Signal Processing, 1994, 5, 135-146.	1.4	87
8	Miniaturized thermal flow sensor with planar-integrated sensor structures on semicircular surface channels. Sensors and Actuators A: Physical, 2008, 143, 1-6.	4.1	73
9	Micromachined structures for thermal measurements of fluid and flow parameters. Journal of Micromechanics and Microengineering, 2001, 11, 311-318.	2.6	62
10	Modeling, design, fabrication and characterization of a micro Coriolis mass flow sensor. Journal of Micromechanics and Microengineering, 2010, 20, 125001.	2.6	62
11	Radiative ballistic phonon transport in silicon-nitride membranes at low temperatures. Applied Physics Letters, 2005, 86, 251903.	3.3	56
12	Dipole-source localization using biomimetic flow-sensor arrays positioned as lateral-line system. Sensors and Actuators A: Physical, 2010, 162, 355-360.	4.1	53
13	A versatile surface channel concept for microfluidic applications. Journal of Micromechanics and Microengineering, 2007, 17, 1971-1977.	2.6	51
14	Imaging dipole flow sources using an artificial lateral-line system made of biomimetic hair flow sensors. Journal of the Royal Society Interface, 2013, 10, 20130162.	3.4	46
15	Rail-to-rail constant-g m input stage and class AB output stage for low-voltage CMOS op amps. Analog Integrated Circuits and Signal Processing, 1994, 6, 121-133.	1.4	34
16	3D force sensor for biomechanical applications. Sensors and Actuators A: Physical, 2012, 182, 28-33.	4.1	31
17	A MEMS-based gravity gradiometer for future planetary missions. Cryogenics, 2009, 49, 665-668.	1.7	28
18	Compact Mass Flow Meter Based on a Micro Coriolis Flow Sensor. Micromachines, 2013, 4, 22-33.	2.9	28

#	Article	IF	CITATIONS
19	Differential capacitive sensing circuit for a multi-electrode capacitive force sensor. Sensors and Actuators A: Physical, 2015, 234, 168-179.	4.1	28
20	Cricket Inspired Flow-Sensor Arrays. , 2007, , .		25
21	2D-finite-element simulations for long-range capacitive position sensor. Journal of Micromechanics and Microengineering, 2003, 13, S183-S189.	2.6	21
22	Offset cancelling circuit. IEEE Journal of Solid-State Circuits, 1989, 24, 651-658.	5.4	18
23	A versatile technology platform for microfluidic handling systems, partÂl: fabrication and functionalization. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	18
24	A micromachined capacitive incremental position sensor: part 1. Analysis and simulations. Journal of Micromechanics and Microengineering, 2006, 16, S116-S124.	2.6	17
25	Biomimetic micromechanical adaptive flow-sensor arrays. , 2007, , .		17
26	A micromachined capacitive incremental position sensor: part 2. Experimental assessment. Journal of Micromechanics and Microengineering, 2006, 16, S125-S134.	2.6	16
27	A complete three-dimensional sound intensity sensor integrated on a single chip. Journal of Micromechanics and Microengineering, 2008, 18, 115004.	2.6	16
28	Integrated Pressure Sensing Using Capacitive Coriolis Mass Flow Sensors. Journal of Microelectromechanical Systems, 2017, 26, 653-661.	2.5	15
29	An HTS quasi-one junction SQUID-based periodic threshold comparator for a 4-bit superconductive flash A/D converter. IEEE Transactions on Applied Superconductivity, 1995, 5, 3452-3458.	1.7	13
30	Quasi-monolithic silicon load cell for loads up to 1000 kg with insensitivity to non-homogeneous load distributions. Sensors and Actuators A: Physical, 2000, 80, 189-196.	4.1	13
31	Development of an array of transition edge sensors for application in X-ray astronomy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 443-445.	1.6	13
32	Analysis of a three-dimensional particle velocity sensor for design optimization. Journal of Micromechanics and Microengineering, 2007, 17, S137-S146.	2.6	13
33	Integrated Thermal and Microcoriolis Flow Sensing System with a Dynamic Flow Range of More Than Five Decades. Micromachines, 2012, 3, 194-203.	2.9	13
34	A 2D Particle Velocity Sensor With Minimal Flow Disturbance. IEEE Sensors Journal, 2016, 16, 8706-8714.	4.7	13
35	Parametric excitation of a micro Coriolis mass flow sensor. Applied Physics Letters, 2012, 101, 223511.	3.3	12
36	Thermal and Coriolis type micro flow sensors based on surface channel technology. Procedia Chemistry, 2009, 1, 1455-1458.	0.7	11

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37	First results of PRECISE—Development of a MEMS-based monopropellant micro chemical propulsion system. Acta Astronautica, 2014, 93, 77-83.	3.2	11
38	Multi Parameter Flow Meter for On-Line Measurement of Gas Mixture Composition. Micromachines, 2015, 6, 452-461.	2.9	11
39	SU–8 micro coriolis mass flow sensor. Sensors and Actuators B: Chemical, 2017, 241, 744-749.	7.8	11
40	Disposable DNA Amplification Chips with Integrated Low-Cost Heaters â€. Micromachines, 2020, 11, 238.	2.9	11
41	Optimization of a micro Coriolis mass flow sensor using Lorentz force actuation. Sensors and Actuators A: Physical, 2012, 186, 48-53.	4.1	10
42	Design Considerations for a Micromachined Proportional Control Valve. Micromachines, 2012, 3, 396-412.	2.9	10
43	Experimental analysis of thermomechanical noise in micro Coriolis mass flow sensors. Sensors and Actuators A: Physical, 2018, 271, 212-216.	4.1	10
44	\hat{l} ¼-Coriolis Mass Flow Sensor with Resistive Readout. Micromachines, 2020, 11, 184.	2.9	10
45	Thermal Flow-Sensor Drift Reduction by Thermopile Voltage Cancellation via Power Feedback Control. Journal of Microelectromechanical Systems, 2014, 23, 908-917.	2.5	9
46	Towards nanogram per second Coriolis mass flow sensing. , 2016, , .		9
47	A versatile technology platform for microfluidic handling systems, part II: channel design and technology. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	9
48	Three-axial force sensor with capacitive read-out using a differential relaxation oscillator. , 2013, , .		8
49	Three-axis force-torque sensor with fully differential capacitive readout. , 2016, , .		8
50	Computer aided analysis and design of MOS translinear circuits operating in strong inversion. Analog Integrated Circuits and Signal Processing, 1996, 9, 181-187.	1.4	7
51	Low-cost piezoresistive silicon load cell independent of force distribution. Journal of Micromechanics and Microengineering, 2000, 10, 200-203.	2.6	7
52	Biomimetic Flow-Sensor Arrays Based on the Filiform Hairs on the Cerci of Crickets. , 2007, , .		7
53	A 2D acoustic particle velocity sensor with perfectly orthogonal sensitivity directions. Sensors and Actuators A: Physical, 2016, 246, 28-34.	4.1	7
54	Improved capacitive detection method for Coriolis mass flow sensors enabling range/sensitivity tuning. Microelectronic Engineering, 2016, 159, 1-5.	2.4	7

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55	On Frequency-Based Interface Circuits for Capacitive MEMS Accelerometers. Micromachines, 2018, 9, 488.	2.9	7
56	Development of arrays of transition edge sensors for application in X-ray astronomy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 513, 143-146.	1.6	6
57	A piezoelectric micro control valve with integrated capacitive sensing for ambulant blood pressure waveform monitoring. Journal of Micromechanics and Microengineering, 2014, 24, 125020.	2.6	6
58	Parametric amplification in a micro Coriolis mass flow sensor. Journal of Applied Physics, 2014, 115, 194503.	2.5	6
59	Miniature proportional control valve with top-mounted piezo bimorph actuator with millisecond response time. Journal of Micromechanics and Microengineering, 2015, 25, 105008.	2.6	6
60	Design, Fabrication, and Characterization of a Micro Coriolis Mass Flow Sensor Driven by PZT Thin Film Actuators. Journal of Microelectromechanical Systems, 2021, 30, 885-896.	2.5	6
61	Low creep and hysteresis load cell based on a force-to-fluid pressure transformation. Sensors and Actuators A: Physical, 1999, 78, 74-80.	4.1	5
62	Analysis of the performance of a particle velocity sensor between two cylindrical obstructions. Journal of the Acoustical Society of America, 2007, 121, 2711-2722.	1.1	5
63	Free Suspended Thin-Walled Nickel Electroplated Tubes for Microfluidic Density and Mass Flow Sensors. Journal of Microelectromechanical Systems, 2022, 31, 408-414.	2.5	5
64	Dipole source localisation using bio-mimetic flow-sensor arrays. Procedia Chemistry, 2009, 1, 891-894.	0.7	4
65	PRECISE - Development of a MEMS-based monopropellant micro Chemical Propulsion System. , 2012, , .		4
66	Nano-slit electrospray emitters fabricated by a micro- to nanofluidic via technology. Microfluidics and Nanofluidics, 2012, 13, 29-35.	2.2	4
67	Proportional Control Valves Integrated in Silicon Nitride Surface Channel Technology. Journal of Microelectromechanical Systems, 2015, 24, 1759-1767.	2.5	4
68	Theoretical and experimental research on the in-plane comb-shaped capacitor for MEMS coriolis mass flow sensor. Microsystem Technologies, 2016, 22, 747-755.	2.0	4
69	Magnetic field strength improvement for Lorentz actuation of a μ-Coriolis mass flow sensor. Microelectronic Engineering, 2020, 224, 111236.	2.4	4
70	Towards a Casimir Force Measurement between Micromachined Parallel Plate Structures. Challenges, 2012, 3, 261-277.	1.7	3
71	A novel two dimensional particle velocity sensor. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
72	Single-chip mass flow controller with integrated coriolis flow sensor and proportional control valve. , 2016, , .		3

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73	Heavily-Doped Bulk Silicon Sidewall Electrodes Embedded between Free-Hanging Microfluidic Channels by Modified Surface Channel Technology. Micromachines, 2020, 11, 561.	2.9	3
74	μ-Coriolis Mass Flow Sensor With Differential Capacitive Readout. IEEE Sensors Journal, 2021, 21, 5886-5894.	4.7	3
75	Variable-gamma circuit for colour television based on the MOS voltage-translinear principle. Analog Integrated Circuits and Signal Processing, 1996, 9, 189-195.	1.4	2
76	A cryogenic imaging x-ray spectrometer for XEUS readout by frequency-division SQUID multiplexers. , 2004, , .		2
77	Artificial lateral-line system for imaging dipole sources using beamforming techniques. Procedia Engineering, 2011, 25, 779-782.	1.2	2
78	Parametric amplification in a micro Coriolis mass flow sensor: Reduction of power dissipation without loss of sensitivity. , 2013, , .		2
79	PRECISE - preliminary results of the MEMS-based µCPS. , 2013, , .		2
80	5.7 A MEMS Coriolis Mass Flow Sensor with 300 μ g/h/â^šHz Resolution and ± 0.8mg/h Zero Stability. , 2021, , .		2
81	Some Design Aspects of a Two-Stage Rail-to-Rail CMOS Op Amp. Analog Integrated Circuits and Signal Processing, 1999, 21, 143-152.	1.4	1
82	Fabrication of thick silicon nitride blocks embedded in low-resistivity silicon substrates for radio frequency applications. Journal of Micromechanics and Microengineering, 2006, 16, 862-868.	2.6	1
83	Optimization of a micro Coriolis mass flow sensor. Procedia Engineering, 2011, 25, 783-786.	1.2	1
84	Fully Integrated Micro Coriolis Mass Flow Sensor Operating at Atmospheric Pressure. TM Technisches Messen, 2012, 79, 4-9.	0.7	1
85	Inline relative permittivity sensing using silicon electrodes realized in surface channel technology. , 2018, , .		1
86	A Flow-Through Microfluidic Relative Permittivity Sensor. Micromachines, 2020, 11, 325.	2.9	1
87	Thin-Walled Cylindrical Nickel Electroplated Tubes for Application in Microfluidic Density and Mass Flow Sensors. , 2021, , .		1
88	High Power Si Sidewall Heaters for Fluidic Applications Fabricated by Trench-Assisted Surface Channel Technology. , 2019, , .		0
89	High Capacity Silicon Load Cells. , 2001, , 71-76.		0
90	Air Damping Analysis of a Micro-Coriolis Mass Flow Sensor. Sensors, 2022, 22, 673.	3.8	0

#	Article	IF	CITATIONS
91	Micro Coriolis Mass Flow Sensor with Piezoelectric Transducers for Both Actuation and Readout. , 2022, , .		0