

Robert Puers

List of Publications by Year in descending order

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278
papers

9,147
citations

50276

46
h-index

54911

84
g-index

285
all docs

285
docs citations

285
times ranked

8840
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring Lower Back Activity in Daily Life Using Small Unintrusive Sensors and Wearable Electronics in the Context of Rheumatic and Musculoskeletal Diseases. <i>Sensors</i> , 2021, 21, 6362.	3.8	3
2	System for recording from multiple flexible polyimide neural probes in freely behaving animals. <i>Journal of Neural Engineering</i> , 2020, 17, 016046.	3.5	13
3	Magnetic Cell Centrifuge Platform Performance Study with Different Microsieve Pore Geometries. <i>Sensors</i> , 2020, 20, 48.	3.8	6
4	Digital Microfluidics for Single Bacteria Capture and Selective Retrieval Using Optical Tweezers. <i>Micromachines</i> , 2020, 11, 308.	2.9	21
5	Bendable Piezoelectric Micromachined Ultrasound Transducer (PMUT) Arrays Based on Silicon-On-Insulator (SOI) Technology. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 378-386.	2.5	12
6	Novel implantable pressure and acceleration sensor for bladder monitoring. <i>International Journal of Urology</i> , 2020, 27, 543-550.	1.0	10
7	Actuators: Accomplishments, opportunities and challenges. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 604-611.	4.1	25
8	Physiological Driver Monitoring Using Capacitively Coupled and Radar Sensors. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3994.	2.5	21
9	Flexible Soi-Based Piezoelectric Micromachined Ultrasound Transducer (PMUT) Arrays. , 2019, , .		10
10	Highly Efficient Piezoelectric Micromachined Ultrasound Transducer (PMUT) for Underwater Sensor Networks. , 2019, , .		12
11	Dextran as a Resorbable Coating Material for Flexible Neural Probes. <i>Micromachines</i> , 2019, 10, 61.	2.9	22
12	Resonating Shell: A Spherical-Omnidirectional Ultrasound Transducer for Underwater Sensor Networks. <i>Sensors</i> , 2019, 19, 757.	3.8	22
13	Coupled Piezoelectric Bulk-Micromachined Ultrasound Transducer (cPB-MUT): An Ultrasound Transducer with Enhanced Pressure Response in Liquid and Dense Medium. , 2019, , .		2
14	Capacitive multi-electrode array with real-time electrode selection for unobtrusive ECG & BIOZ monitoring. , 2019, 2019, 5621-5624.		14
15	Wireless intravesical device for real-time bladder pressure measurement: Study of consecutive voiding in awake minipigs. <i>PLoS ONE</i> , 2019, 14, e0225821.	2.5	12
16	Chronic neural recording with probes of subcellular cross-section using 0.06 mm ² dissolving microneedles as insertion device. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 369-376.	7.8	20
17	Anisotropic etching in (3±1) Si to fabricate sharp resorbable polymer microneedles carrying neural electrode arrays. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 027001.	2.6	5
18	Inertial sensors versus standard systems in gait analysis: a systematic review and meta-analysis. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2019, 55, 265-280.	2.2	56

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19	A Simplified Dielectric Material Characterization Algorithm for Both Liquids and Solids. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 1639-1646.	2.2	6
20	Multi-layer embedded carbon fibres as highly compliant and stretchable interconnects. Flexible and Printed Electronics, 2018, 3, 015010.	2.7	1
21	A foldable electrode array for 3D recording of deep-seated abnormal brain cavities. Journal of Neural Engineering, 2018, 15, 036029.	3.5	1
22	Sensor Fusion of Capacitively Coupled ECG and Continuous-Wave Doppler Radar for Improved Unobtrusive Heart Rate Measurements. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 316-328.	3.6	12
23	A fast and accurate Langmuir-type polymer microtensiometer. Advances in Colloid and Interface Science, 2018, 255, 26-33.	14.7	2
24	Sensor and Embedded Control System for Liquid Crystal Implantable Eye Lens. Proceedings (mdpi), 2018, 2, .	0.2	0
25	Teflon-on-Glass Molding Enables High-Throughput Fabrication of Hydrophilic-in-Hydrophobic Microwells for Bead-Based Digital Bioassays. Materials, 2018, 11, 2154.	2.9	3
26	PMUTs Array with Dynamic Directivity: A Study of its Underwater Acoustic Power Intensity. , 2018, , .		8
27	Optimization in the Design and Fabrication of a PZT Piezoelectric Micromachined Ultrasound Transducer (PMUT). Proceedings (mdpi), 2018, 2, 743.	0.2	11
28	Sub-femtomolar detection of DNA and discrimination of mutant strands using microwell-array assisted digital enzyme-linked oligonucleotide assay. Analytica Chimica Acta, 2018, 1041, 122-130.	5.4	9
29	Surface Nanostructuring of Parylene-C Coatings for Blood Contacting Implants. Materials, 2018, 11, 1109.	2.9	21
30	Evaluation of a Multichannel Non-Contact ECG System and Signal Quality Algorithms for Sleep Apnea Detection and Monitoring. Sensors, 2018, 18, 577.	3.8	45
31	An ionic liquid based strain sensor for large displacement measurement. Biomedical Microdevices, 2017, 19, 1.	2.8	32
32	Extracellular matrix proteins as temporary coating for thin-film neural implants. Journal of Neural Engineering, 2017, 14, 014001.	3.5	8
33	Single-Step Imprinting of Femtoliter Microwell Arrays Allows Digital Bioassays with Attomolar Limit of Detection. ACS Applied Materials & Interfaces, 2017, 9, 10418-10426.	8.0	48
34	Failure Mechanisms in MEMS/NEMS Devices. Springer Handbooks, 2017, , 1437-1457.	0.6	9
35	Liquid measurements at microliter volumes using 1-port coplanar interdigital capacitor. , 2017, , .		8
36	Investigation of thermal effect caused by different input power of biosensor using a novel microwave and optical sensing system for biological liquids. , 2017, , .		4

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37	Packaging of implantable accelerometers to monitor epicardial and endocardial wall motion. Biomedical Microdevices, 2017, 19, 52.	2.8	11
38	Single-Element Omnidirectional Piezoelectric Ultrasound Transducer for under Water Communication. Proceedings (mdpi), 2017, 1, .	0.2	5
39	A Piezoelectric Micromachined Ultrasound Transducers (pMUT) Array, for Wide Bandwidth Underwater Communication Applications. Proceedings (mdpi), 2017, 1, .	0.2	9
40	In-Vivo Implantable Sensor System for Measuring Bladder Wall Movements. Proceedings (mdpi), 2017, 1, 566.	0.2	3
41	Time Multiplexed Active Neural Probe with 1356 Parallel Recording Sites. Sensors, 2017, 17, 2388.	3.8	141
42	Submucosal Exploration of EMG and Physiological Parameters in the Bladder Wall. Proceedings (mdpi), 2017, 1, .	0.2	5
43	An Implantable Intravascular Pressure Sensor for a Ventricular Assist Device. Micromachines, 2016, 7, 135.	2.9	30
44	Development of Gated Pinned Avalanche Photodiode Pixels for High-Speed Low-Light Imaging. Sensors, 2016, 16, 1294.	3.8	6
45	Biocompatible Packaging of an Epicardial Accelerometer for Real-time Assessment of Cardiac Motion. Procedia Engineering, 2016, 168, 80-83.	1.2	6
46	The Bladder Pill: Developments Toward Bladder Pressure Measurement in Awake Mini-pigs. Procedia Engineering, 2016, 168, 193-196.	1.2	8
47	In-situ Growth of Platinum with Hierarchical Porosity for Low Impedance Biomedical Microelectrode Fabrication. Procedia Engineering, 2016, 168, 1122-1126.	1.2	0
48	A Foldable Neural Electrode for 3D Stimulation of Deep Brain Cavities. Procedia Engineering, 2016, 168, 137-142.	1.2	1
49	Tracking Elite Swimmers in Real Time with Wearable Low-power Wireless Sensor Networks. Procedia Engineering, 2016, 147, 627-631.	1.2	3
50	Wireless powering and communication for implants, based on a Royer oscillator with radio and near-field links. Sensors and Actuators A: Physical, 2016, 250, 273-280.	4.1	4
51	Minimization of Ionic Transport Resistance in Porous Monoliths for Application in Integrated Solar Water Splitting Devices. Journal of Physical Chemistry C, 2016, 120, 21242-21247.	3.1	11
52	An integrated multi-electrode-optrode array for in vitro optogenetics. Scientific Reports, 2016, 6, 20353.	3.3	36
53	Optical Manipulation of Single Magnetic Beads in a Microwell Array on a Digital Microfluidic Chip. Analytical Chemistry, 2016, 88, 8596-8603.	6.5	23
54	Time multiplexed active neural probe with 678 parallel recording sites. , 2016, , .		34

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55	Low Loss CMOS-Compatible PECVD Silicon Nitride Waveguides and Grating Couplers for Blue Light Optogenetic Applications. IEEE Photonics Journal, 2016, 8, 1-11.	2.0	29
56	Quasi-3-D Finite-Element Method for Cylindrically Symmetric Models With Small Eccentricities. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	3
57	Wireless Fidelity Electromagnetic Field Exposure Monitoring With Wearable Body Sensor Networks. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 779-786.	4.0	10
58	A Monte Carlo simulator for noise analysis of avalanche photodiode pixels in low-light image sensing. Proceedings of SPIE, 2016, , .	0.8	0
59	SU-8 Photoresist. , 2016, , 3858-3873.		2
60	High-density optrode-electrode neural probe using SixNy photonics for in vivo optogenetics. , 2015, , .		15
61	Biocompatible Packaging and Testing of an Endocardial Accelerometer for Heart Wall Motion Analysis. Procedia Engineering, 2015, 120, 840-844.	1.2	7
62	Insulation lifetime improvement of polyimide thin film neural implants. Journal of Neural Engineering, 2015, 12, 054001.	3.5	34
63	Co-design of a MEMS-CMOS autonomous switched oscillator. , 2015, , .		0
64	A MEMS Resonator as a Power Receiver for Inductively Powered Implantable Sensors. Procedia Engineering, 2015, 120, 570-573.	1.2	1
65	Digital microfluidics for time-resolved cytotoxicity studies on single non-adherent yeast cells. Lab on A Chip, 2015, 15, 1852-1860.	6.0	41
66	Langmuir monolayer characterization via polymer microtensimeters. Sensors and Actuators A: Physical, 2015, 229, 110-117.	4.1	4
67	On-Body Calibration and Measurements Using a Personal, Distributed Exposimeter for Wireless Fidelity. Health Physics, 2015, 108, 407-418.	0.5	16
68	A Wireless Powering and Communication System for Implantable Devices Based on a Royer Oscillator with Radio and Near-field Communication Links. Procedia Engineering, 2015, 120, 306-309.	1.2	8
69	Fabrication of Nanostructured Platinum with Multilevel Porosity for Low Impedance Biomedical Recording and Stimulation Electrodes. Procedia Engineering, 2015, 120, 355-359.	1.2	8
70	Separation of magnetic microparticles in segmented flow using asymmetric splitting regimes. Microfluidics and Nanofluidics, 2015, 18, 91-102.	2.2	21
71	Selective DNA extraction with microparticles in segmented flow. Microfluidics and Nanofluidics, 2015, 18, 293-303.	2.2	17
72	SU-8 Photoresist. , 2015, , 1-16.		1

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73	Sensor and Instrumentation for Cable Tension Quantification. <i>Procedia Engineering</i> , 2014, 87, 1473-1476.	1.2	2
74	An Ionic Liquid Based Strain Sensor for Large Displacements. <i>Procedia Engineering</i> , 2014, 87, 1123-1126.	1.2	16
75	Physiological constraints for an intraocular inductive distance sensor. , 2014, 2014, 646-9.		1
76	Digital microfluidic chip technology for water permeability measurements on single isolated plant protoplasts. <i>Sensors and Actuators B: Chemical</i> , 2014, 199, 479-487.	7.8	25
77	An Implantable 455-Active-Electrode 52-Channel CMOS Neural Probe. <i>IEEE Journal of Solid-State Circuits</i> , 2014, 49, 248-261.	5.4	208
78	Contactless energy transfer at the bedside featuring an online power optimization strategy. <i>Sensors and Actuators A: Physical</i> , 2014, 217, 160-167.	4.1	2
79	Wireless Communication with Miniaturized Sensor Devices in Swimming. <i>Procedia Engineering</i> , 2014, 72, 398-403.	1.2	11
80	A highly efficient extraction protocol for magnetic particles on a digital microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 282-291.	7.8	32
81	A Polymer Microdevice for Tensiometry of Insoluble Components. <i>Procedia Engineering</i> , 2014, 87, 80-83.	1.2	3
82	Plasma Enhanced Hydrophobicity of Parylene-C Surfaces for a Blood Contacting Pressure Sensor. <i>Procedia Engineering</i> , 2014, 87, 336-339.	1.2	8
83	Resorbable scaffold based chronic neural electrode arrays. <i>Biomedical Microdevices</i> , 2013, 15, 481-493.	2.8	14
84	Design of a flow-controlled asymmetric droplet splitter using computational fluid dynamics. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 243-252.	2.2	9
85	Personal distributed exposimeter for radio frequency exposure assessment in real environments. <i>Bioelectromagnetics</i> , 2013, 34, 563-567.	1.6	36
86	Fabrication process for tall, sharp, hollow, high aspect ratio polymer microneedles on a platform. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 075023.	2.6	16
87	Developing engineering-oriented educational workshops within a student branch. , 2013, , .		0
88	Design, fabrication and testing of wafer-level thin film vacuum packages for MEMS based on nanoporous alumina membranes. <i>Sensors and Actuators A: Physical</i> , 2013, 189, 218-232.	4.1	8
89	MOEMS uniaxial accelerometer based on EpoClad/EpoCore photoresists with built-in fiber clamp. <i>Sensors and Actuators A: Physical</i> , 2013, 193, 95-102.	4.1	26
90	Miniaturized Layer-by-Layer Deposition of Metalâ€“Organic Framework Coatings through Digital Microfluidics. <i>Chemistry of Materials</i> , 2013, 25, 1021-1023.	6.7	28

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91	Digital microfluidics-enabled single-molecule detection by printing and sealing single magnetic beads in femtoliter droplets. Lab on A Chip, 2013, 13, 2047.	6.0	119
92	Permittivity-based void fraction sensing for microfluidics. Sensors and Actuators A: Physical, 2013, 195, 64-70.	4.1	14
93	Integrating optical waveguides in electrowetting-on-dielectric digital microfluidic chips. Sensors and Actuators B: Chemical, 2013, 181, 166-171.	7.8	22
94	Implantable chips and sensors: Quo vadis?. , 2013, , .		0
95	A wireless energy transfer platform, integrated at the bedside. , 2013, 2013, 1458-61.		1
96	An EpoClad/EpoCore-based platform for MOEMS fabrication. Journal of Micromechanics and Microengineering, 2013, 23, 125005.	2.6	6
97	Intraocular electro-optic lens with ciliary muscle controlled accommodation. , 2013, 2013, 3190-3.		4
98	Development of an open-source smart energy house for K-12 education. , 2013, , .		3
99	An implantable 455-active-electrode 52-channel CMOS neural probe. , 2013, , .		30
100	Characterization of the adhesion of SU-8 and Epoclad. Journal of Micromechanics and Microengineering, 2012, 22, 097002.	2.6	1
101	Fabrication and testing of a MEMS platform for characterization of stimuli-sensitive hydrogels. Journal of Micromechanics and Microengineering, 2012, 22, 087001.	2.6	4
102	Towards a noise prediction model for in vivo neural recording. , 2012, 2012, 759-62.		13
103	A Parylene temporary packaging technique for MEMS wafer handling. Sensors and Actuators A: Physical, 2012, 186, 289-297.	4.1	5
104	Miniature Absolute Optical Pressure Sensor at a Fiber Tip for High Temperature Applications. Procedia Engineering, 2012, 47, 698-701.	1.2	3
105	Surface Micromachined Polymer Capacitive Accelerometer Array Utilizing Fringe Electrical Field. Procedia Engineering, 2012, 47, 627-630.	1.2	1
106	A walk down memory lane of 25 years of Eurosensors conferences. Sensors and Actuators B: Chemical, 2012, 175, 2-8.	7.8	0
107	Integrated Void Fraction Sensors for Two-phase, Microfluidic Systems. Procedia Engineering, 2012, 47, 643-646.	1.2	1
108	Polymer MOEMS Accelerometer. Procedia Engineering, 2012, 47, 120-123.	1.2	9

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109	A Class-E driven inductive power delivery system covering the complete upper body. Sensors and Actuators A: Physical, 2012, 183, 132-139.	4.1	30
110	A walk down memory lane of 25 years of Eurosensors conferences. Sensors and Actuators A: Physical, 2012, 186, 2-8.	4.1	3
111	Development and fabrication of a novel photopatternable electric responsive Pluronic hydrogel for MEMS applications. Sensors and Actuators A: Physical, 2012, 186, 184-190.	4.1	19
112	SiGe MEMS at processing temperatures below 250 °C. Sensors and Actuators A: Physical, 2012, 188, 230-239.	4.1	5
113	Silicon photonic sensors incorporated in a digital microfluidic system. Analytical and Bioanalytical Chemistry, 2012, 404, 2887-2894.	3.7	26
114	A Neonatal Body Sensor Network for Long-term Vital Signs Acquisition. Procedia Engineering, 2012, 47, 981-984.	1.2	5
115	Neural Implants Containing a Resorbable Chitosan Matrix. Procedia Engineering, 2012, 47, 688-689.	1.2	5
116	Poly-SiGe-Based MEMS Thin-Film Encapsulation. Journal of Microelectromechanical Systems, 2012, 21, 110-120.	2.5	16
117	A Multichannel Integrated Circuit for Electrical Recording of Neural Activity, With Independent Channel Programmability. IEEE Transactions on Biomedical Circuits and Systems, 2012, 6, 101-110.	4.0	66
118	Digital Microfluidic High-Throughput Printing of Single Metal-Organic Framework Crystals. Advanced Materials, 2012, 24, 1316-1320.	21.0	88
119	Wireless power and data transmission for robotic capsule endoscopes. , 2011, , .		25
120	A versatile electrowetting-based digital microfluidic platform for quantitative homogeneous and heterogeneous bio-assays. Journal of Micromechanics and Microengineering, 2011, 21, 054026.	2.6	110
121	Controlled stress-induced shaping of molybdenum microstructures. Procedia Engineering, 2011, 25, 309-312.	1.2	2
122	Micropatterning and dynamic swelling of photo-crosslinkable electroactive Pluronic hydrogel. Procedia Engineering, 2011, 25, 856-859.	1.2	0
123	Dedicated Class-E Driver for Large Area Wireless Medical Inspection Capsules. Procedia Engineering, 2011, 25, 1004-1007.	1.2	4
124	High Strength, Polymer Microneedles For Transdermal Drug Delivery. Procedia Engineering, 2011, 25, 1377-1380.	1.2	7
125	A Parylene Temporary Packaging Technique for MEMS Wafer Handling. Procedia Engineering, 2011, 25, 1501-1504.	1.2	1
126	A Self-Tuning Inductive Powering System for Biomedical Implants. Procedia Engineering, 2011, 25, 1585-1588.	1.2	18

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127	Built-in Self-Limitation of Masked Aluminum Anodization using Photoresist. <i>Procedia Engineering</i> , 2011, 25, 1633-1636.	1.2	1
128	Comparison of methods for the mechanical characterization of polymers for MEMS applications. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 115027.	2.6	17
129	Biofunctionalization of electrowetting-on-dielectric digital microfluidic chips for miniaturized cell-based applications. <i>Lab on A Chip</i> , 2011, 11, 2790.	6.0	73
130	A multi-coil inductive powering system for an endoscopic capsule with vibratory actuation. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 253-258.	4.1	87
131	Two-Dimensional Multi-Channel Neural Probes With Electronic Depth Control. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2011, 5, 403-412.	4.0	51
132	Controlling droplet size variability of a digital lab-on-a-chip for improved bio-assay performance. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 25-34.	2.2	20
133	Air gap-based MEMS switch technology using nickel surface micromachining. <i>Sensors and Actuators A: Physical</i> , 2011, 166, 256-263.	4.1	6
134	Systematic design of a programmable low-noise CMOS neural interface for cell activity recording. , 2011, , .		2
135	A 16-channel low-noise programmable system for the recording of neural signals. , 2011, , .		2
136	Contact Resistivity of Laser Annealed SiGe for MEMS Structural Layers Deposited at 210Â°C. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1299, 1.	0.1	1
137	An in-plane SiGe differential capacitive accelerometer for above-IC integration. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 074011.	2.6	8
138	A floating 3D silicon microprobe array for neural drug delivery compatible with electrical recording. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 125001.	2.6	37
139	Determining the physical properties of EpoClad negative photoresist for use in MEMS applications. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 074001.	2.6	12
140	Activity based neural front-end recording system. <i>Electronics Letters</i> , 2011, 47, 1170.	1.0	0
141	Short Distance Wireless Communications. <i>Integrated Circuits and Systems</i> , 2011, , 219-277.	0.2	6
142	An optical absolute pressure sensor for high-temperature applications, fabricated directly on a fiber. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 029801-029801.	2.6	0
143	A wireless power supply system for robotic capsular endoscopes. <i>Sensors and Actuators A: Physical</i> , 2010, 162, 177-183.	4.1	78
144	The BladderPill: An in-body system logging bladder pressure. <i>Sensors and Actuators A: Physical</i> , 2010, 162, 160-166.	4.1	20

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145	Robust monitoring of vital signs integrated in textile. <i>Sensors and Actuators A: Physical</i> , 2010, 161, 288-296.	4.1	27
146	A water-tight packaging of MEMS electrostatic actuators for biomedical applications. <i>Microsystem Technologies</i> , 2010, 16, 2109-2113.	2.0	18
147	Scaling the Suspended-Gate FET: Impact of Dielectric Charging and Roughness. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 804-813.	3.0	12
148	Pseudo-Two-Dimensional Model for Double-Gate Tunnel FETs Considering the Junctions Depletion Regions. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 827-834.	3.0	223
149	An efficient hardware-optimized compression algorithm for wireless capsule endoscopy image transmission. <i>Procedia Engineering</i> , 2010, 5, 208-211.	1.2	12
150	A wireless powering system for a vibratory-actuated endoscopic capsule. <i>Procedia Engineering</i> , 2010, 5, 572-575.	1.2	8
151	Design and characterization of a CMOS compatible poly-SiGe lowg capacitive accelerometer. <i>Procedia Engineering</i> , 2010, 5, 742-745.	1.2	6
152	Thermal analysis of a Ag/Ti based microheater. <i>Procedia Engineering</i> , 2010, 5, 1356-1359.	1.2	8
153	Nickel-plated thermal switch with electrostatic latch. <i>Sensors and Actuators A: Physical</i> , 2010, 164, 148-153.	4.1	6
154	Dynamic thermal mechanical characterization of Epoclad negative photoresist for micro mechanical structures. <i>Microelectronic Engineering</i> , 2010, 87, 1278-1280.	2.4	2
155	Physical loss mechanisms for resonant acoustical waves in boron doped poly-SiGe deposited with hydrogen dilution. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	6
156	(Invited) SiGe MEMS Technology: A Platform Technology Enabling Different Demonstrators. <i>ECS Transactions</i> , 2010, 33, 799-812.	0.5	11
157	Mechanical characterization of poly-SiGe layers for CMOSâ€MEMS integrated application. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 015014.	2.6	16
158	A high aspect ratio SU-8 fabrication technique for hollow microneedles for transdermal drug delivery and blood extraction. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 064006.	2.6	70
159	Diffusing and swelling in SU-8: insight in material properties and processing. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 095013.	2.6	52
160	Power Processing Circuits for Piezoelectric Vibration-Based Energy Harvesters. <i>IEEE Transactions on Industrial Electronics</i> , 2010, 57, 4170-4177.	7.9	68
161	Selective laser annealing for improved SiGe MEMS structural layers at 210°C. , 2010, , .		2
162	Thermomechanical design and modeling of porous alumina-based thin film packages for MEMS. , 2010, , .		4

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163	Two-dimensional multi-channel neural probes with electronic depth control. , 2010, , .		6
164	Failure Mechanisms in MEMS/NEMS Devices. , 2010, , 1761-1782.		4
165	In vitro cytotoxicity testing and the application of elastic interconnection technology for short-term implantable electronics. , 2009, 2009, 4880-3.		2
166	Design and measurement of stress indicator structures for the characterization of Epoclad negative photoresist. Journal of Micromechanics and Microengineering, 2009, 19, 074019.	2.6	9
167	A 3D Ferrite Coil Receiver for Wireless Power Supply of Endoscopic Capsules. Procedia Chemistry, 2009, 1, 477-480.	0.7	13
168	Etch rate optimization in reactive ion etching of epoxy photoresists. Procedia Chemistry, 2009, 1, 796-799.	0.7	6
169	SU-8 thermo-compressive packaging for post-CMOS poly-SiGe MEMS. Procedia Chemistry, 2009, 1, 1539-1542.	0.7	4
170	Ultra-low-power biopotential interfaces and their applications in wearable and implantable systems. Microelectronics Journal, 2009, 40, 1313-1321.	2.0	64
171	Accurate measurement of the steady-state swelling behavior of SU-8 negative photo resist. Procedia Chemistry, 2009, 1, 60-63.	0.7	8
172	Biaxial and Uniaxial Epoxy Accelerometers. Procedia Chemistry, 2009, 1, 572-575.	0.7	3
173	Low voltage electrostatic inchworm actuators in aqueous environments. Procedia Chemistry, 2009, 1, 686-689.	0.7	3
174	Textile Integrated Breathing and ECG Monitoring System. Procedia Chemistry, 2009, 1, 722-725.	0.7	30
175	An Autonomous, Capacitive Sensor Based and Battery Powered Internal Bladder Pressure Monitoring System. Procedia Chemistry, 2009, 1, 1263-1266.	0.7	8
176	Effect of substrate charging on the reliability of capacitive RF MEMS switches. Sensors and Actuators A: Physical, 2009, 154, 261-268.	4.1	32
177	Design of a 2Mbps FSK near-field transmitter for wireless capsule endoscopy. Sensors and Actuators A: Physical, 2009, 156, 43-48.	4.1	59
178	Saw-tooth vernier ratchets for electrostatic inchworm actuators. Sensors and Actuators A: Physical, 2009, 156, 66-71.	4.1	11
179	Design and implementation of advanced systems in a flexible-stretchable technology for biomedical applications. Sensors and Actuators A: Physical, 2009, 156, 79-87.	4.1	96
180	Determining the Young's modulus and creep effects in three different photo definable epoxies for MEMS applications. Sensors and Actuators A: Physical, 2009, 156, 196-200.	4.1	37

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181	Wireless powering for a self-propelled and steerable endoscopic capsule for stomach inspection. <i>Biosensors and Bioelectronics</i> , 2009, 25, 845-851.	10.1	129
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