Michel Godin

List of Publications by Year in descending order

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MICHEL CODIN

#	Article	IF	CITATIONS
1	Weighing of biomolecules, single cells and single nanoparticles in fluid. Nature, 2007, 446, 1066-1069.	13.7	1,089
2	Using buoyant mass to measure the growth of single cells. Nature Methods, 2010, 7, 387-390.	9.0	338
3	Surface Stress, Kinetics, and Structure of Alkanethiol Self-Assembled Monolayers. Langmuir, 2004, 20, 7090-7096.	1.6	167
4	Measuring the mass, density, and size of particles and cells using a suspended microchannel resonator. Applied Physics Letters, 2007, 91, 123121.	1.5	159
5	Cantilever-based sensing: the origin of surface stress and optimization strategies. Nanotechnology, 2010, 21, 075501.	1.3	117
6	Quantitative surface stress measurements using a microcantilever. Applied Physics Letters, 2001, 79, 551-553.	1.5	86
7	Precise control of the size and noise of solid-state nanopores using high electric fields. Nanotechnology, 2012, 23, 405301.	1.3	78
8	Integrating nanopore sensors within microfluidic channel arrays using controlled breakdown. Lab on A Chip, 2015, 15, 1407-1411.	3.1	67
9	Microcantilever-Based Sensors:  Effect of Morphology, Adhesion, and Cleanliness of the Sensing Surface on Surface Stress. Analytical Chemistry, 2007, 79, 8136-8143.	3.2	64
10	A differential microcantilever-based system for measuring surface stress changes induced by electrochemical reactions. Sensors and Actuators B: Chemical, 2005, 107, 233-241.	4.0	53
11	A complete analysis of the laser beam deflection systems used in cantilever-based systems. Ultramicroscopy, 2007, 107, 422-430.	0.8	53
12	Structural and mechanical remodeling of the cytoskeleton maintains tensional homeostasis in 3D microtissues under acute dynamic stretch. Scientific Reports, 2020, 10, 7696.	1.6	49
13	Redox-Induced Surface Stress of Polypyrrole-Based Actuators. Journal of Physical Chemistry B, 2005, 109, 17531-17537.	1.2	44
14	Three dimensional spatial separation of cells in response to microtopography. Biomaterials, 2013, 34, 8097-8104.	5.7	43
15	A microscale anisotropic biaxial cell stretching device for applications in mechanobiology. Biotechnology Letters, 2014, 36, 657-665.	1.1	43
16	Hollow core photonic crystal fiber as a reusable Raman biosensor. Optics Express, 2013, 21, 12340.	1.7	42
17	Optofluidic label-free SERS platform for rapid bacteria detection in serum. Sensors and Actuators B: Chemical, 2019, 300, 126907.	4.0	40
18	Label-Free Microelectronic PCR Quantification. Analytical Chemistry, 2006, 78, 2526-2531.	3.2	37

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19	Combined in situ micromechanical cantilever-based sensing and ellipsometry. Review of Scientific Instruments, 2003, 74, 4902-4907.	0.6	35
20	Manipulating Electrical and Fluidic Access in Integrated Nanoporeâ€Microfluidic Arrays Using Microvalves. Small, 2017, 13, 1602601.	5.2	30
21	Identifying Structure in Short DNA Scaffolds Using Solid-State Nanopores. ACS Sensors, 2017, 2, 1814-1820.	4.0	30
22	Monitoring of heparin and its low-molecular-weight analogs by silicon field effect. Proceedings of the United States of America, 2006, 103, 13374-13379.	3.3	29
23	Calibrating laser beam deflection systems for use in atomic force microscopes and cantilever sensors. Applied Physics Letters, 2006, 88, 083108.	1.5	28
24	Integrated microelectronic device for label-free nucleic acid amplification and detection. Lab on A Chip, 2007, 7, 347.	3.1	27
25	Cellular orientation is guided by strain gradients. Integrative Biology (United Kingdom), 2017, 9, 607-618.	0.6	27
26	Microfluidic cell volume sensor with tunable sensitivity. Lab on A Chip, 2012, 12, 3016.	3.1	25
27	Programmable DNA Nanoswitch Sensing with Solid-State Nanopores. ACS Sensors, 2019, 4, 2458-2464.	4.0	23
28	Field-Flow Fractionation and Hydrodynamic Chromatography on a Microfluidic Chip. Analytical Chemistry, 2013, 85, 5981-5988.	3.2	19
29	DNA Capture by Nanopore Sensors under Flow. Analytical Chemistry, 2020, 92, 8108-8116.	3.2	19
30	A vacuum-actuated microtissue stretcher for long-term exposure to oscillatory strain within a 3D matrix. Biomedical Microdevices, 2018, 20, 43.	1.4	18
31	Deterministic paracrine repair of injured myocardium using microfluidic-based cocooning of heart explant-derived cells. Biomaterials, 2020, 247, 120010.	5.7	16
32	Mechanical stretch sustains myofibroblast phenotype and function in microtissues through latent TGF-β1 activation. Integrative Biology (United Kingdom), 2020, 12, 199-210.	0.6	15
33	Quantifying the volume of single cells continuously using a microfluidic pressure-driven trap with media exchange. Biomicrofluidics, 2014, 8, 011101.	1.2	13
34	Mass-based readout for agglutination assays. Applied Physics Letters, 2007, 91, .	1.5	12
35	Using the fringing electric field in microfluidic volume sensors to enhance sensitivity and accuracy. Applied Physics Letters, 2012, 101, .	1.5	12
36	Strategies for controlling egress of therapeutic cells from hydrogel microcapsules. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 612-624.	1.3	12

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37	Using active microfluidic flow focusing to sort particles and cells based on high-resolution volume measurements. Microelectronic Engineering, 2014, 118, 35-40.	1.1	11
38	Physical confinement signals regulate the organization of stem cells in three dimensions. Journal of the Royal Society Interface, 2016, 13, 20160613.	1.5	11
39	Fine-tuning the Size and Minimizing the Noise of Solid-state Nanopores. Journal of Visualized Experiments, 2013, , e51081.	0.2	10
40	Time dependent stress relaxation and recovery in mechanically strained 3D microtissues. APL Bioengineering, 2020, 4, 036107.	3.3	10
41	Measuring Single-Cell Phenotypic Growth Heterogeneity Using a Microfluidic Cell Volume Sensor. Scientific Reports, 2018, 8, 17809.	1.6	9
42	Digital counting of nucleic acid targets using solid-state nanopores. Nanoscale, 2020, 12, 17833-17840.	2.8	8
43	Measuring mechanodynamics in an unsupported epithelial monolayer grown at an air–water interface. Molecular Biology of the Cell, 2017, 28, 111-119.	0.9	3
44	Time dependence of cellular responses to dynamic and complex strain fields. Integrative Biology (United Kingdom), 2019, 11, 4-15.	0.6	3
45	Hollow core photonic crystal fiber as a robust Raman biosensor. Proceedings of SPIE, 2013, , .	0.8	2
46	Nanopore Sensors: Manipulating Electrical and Fluidic Access in Integrated Nanoporeâ€Microfluidic	5.2	2

Array's Using Microvalves (Small 10/2017). Small, 2017, 13, .