

Mar Alvarez

List of Publications by Year in descending order

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42
papers

2,277
citations

279487

23
h-index

329751

37
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43
all docs

43
docs citations

43
times ranked

2914
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated optical devices for lab-on-a-chip biosensing applications. <i>Laser and Photonics Reviews</i> , 2012, 6, 463-487.	4.4	465
2	Nanomechanical biosensors: a new sensing tool. <i>TrAC - Trends in Analytical Chemistry</i> , 2006, 25, 196-206.	5.8	248
3	Microcantilever-based platforms as biosensing tools. <i>Analyst</i> , 2010, 135, 827.	1.7	157
4	Development of nanomechanical biosensors for detection of the pesticide DDT. <i>Biosensors and Bioelectronics</i> , 2003, 18, 649-653.	5.3	155
5	Highly sensitive polymer-based cantilever-sensors for DNA detection. <i>Ultramicroscopy</i> , 2005, 105, 215-222.	0.8	153
6	Rapid generation of protein aerosols and nanoparticles via surface acoustic wave atomization. <i>Nanotechnology</i> , 2008, 19, 455103.	1.3	103
7	Nanomechanics of the Formation of DNA Self-Assembled Monolayers and Hybridization on Microcantilevers. <i>Langmuir</i> , 2004, 20, 9663-9668.	1.6	97
8	Surface Vibration Induced Spatial Ordering of Periodic Polymer Patterns on a Substrate. <i>Langmuir</i> , 2008, 24, 10629-10632.	1.6	71
9	Direct Detection of Protein Biomarkers in Human Fluids Using Site-Specific Antibody Immobilization Strategies. <i>Sensors</i> , 2014, 14, 2239-2258.	2.1	69
10	A highly sensitive microsystem based on nanomechanical biosensors for genomics applications. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 2-10.	4.0	68
11	Gut-on-a-chip: Mimicking and monitoring the human intestine. <i>Biosensors and Bioelectronics</i> , 2021, 181, 113156.	5.3	58
12	Optical sequential readout of microcantilever arrays for biological detection. <i>Sensors and Actuators B: Chemical</i> , 2005, 106, 687-690.	4.0	54
13	Engineering and monitoring cellular barrier models. <i>Journal of Biological Engineering</i> , 2018, 12, 18.	2.0	52
14	Rapid production of protein-loaded biodegradable microparticles using surface acoustic waves. <i>Biomicrofluidics</i> , 2009, 3, 014102.	1.2	48
15	Real-time profile of microcantilevers for sensing applications. <i>Applied Physics Letters</i> , 2005, 87, 234102.	1.5	45
16	Scanning force microscopy three-dimensional modes applied to the study of the dielectric response of adsorbed DNA molecules. <i>Nanotechnology</i> , 2002, 13, 314-317.	1.3	42
17	Engineering Tissue Barrier Models on Hydrogel Microfluidic Platforms. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13920-13933.	4.0	42
18	Asymmetrically coupled resonators for mass sensing. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	39

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19	Color tunable pressure sensors based on polymer nanostructured membranes for optofluidic applications. <i>Scientific Reports</i> , 2019, 9, 3259.	1.6	35
20	Species-specific modulation of food-search behavior by respiration and chemosensation in <i>Drosophila</i> larvae. <i>ELife</i> , 2017, 6, .	2.8	31
21	A comparative study of in-flow and micro-patterning biofunctionalization protocols for nanophotonic silicon-based biosensors. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 402-410.	5.0	26
22	3D Printed porous polyamide macrocapsule combined with alginate microcapsules for safer cell-based therapies. <i>Scientific Reports</i> , 2018, 8, 8512.	1.6	25
23	Nanomechanical Sensors as a Tool for Bacteria Detection and Antibiotic Susceptibility Testing. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	25
24	Dimension dependence of the thermomechanical noise of microcantilevers. <i>Journal of Applied Physics</i> , 2006, 99, 024910.	1.1	24
25	Digital tuning of the quality factor of micromechanical resonant biological detectors. <i>Sensors and Actuators B: Chemical</i> , 2003, 89, 33-39.	4.0	23
26	T-shaped microcantilever sensor with reduced deflection offset. <i>Applied Physics Letters</i> , 2006, 89, 094109.	1.5	16
27	3D printed polyamide macroencapsulation devices combined with alginate hydrogels for insulin-producing cell-based therapies. <i>International Journal of Pharmaceutics</i> , 2019, 566, 604-614.	2.6	14
28	Jumping mode scanning force microscopy: a suitable technique for imaging DNA in liquids. <i>Applied Surface Science</i> , 2003, 210, 22-26.	3.1	12
29	Mechanochromic Detection for Soft Opto-Magnetic Actuators. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47871-47881.	4.0	10
30	CANTILEVER BIOSENSORS. , 2008, , 419-452.		9
31	Out-of-plane single-mode photonic microcantilevers for integrated nanomechanical sensing platform. <i>Sensors and Actuators B: Chemical</i> , 2016, 232, 60-67.	4.0	9
32	Biosensors Based on Cantilevers. <i>Methods in Molecular Biology</i> , 2009, 504, 51-71.	0.4	9
33	Sensitivity analysis for improving nanomechanical photonic transducers biosensors. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 335401.	1.3	8
34	Ultrabroadband light absorbing Fe/polymer flexible metamaterial for soft opto-mechanical devices. <i>Applied Materials Today</i> , 2021, 23, 101052.	2.3	8
35	Elastic Plasmonicâ€Enhanced Fabryâ€PÃ©rot Cavities with Ultrasensitive Stretching Tunability. <i>Advanced Materials</i> , 2022, 34, e2106731.	11.1	7
36	Development of a surface plasmon resonance and nanomechanical biosensing hybrid platform for multiparametric reading. <i>Review of Scientific Instruments</i> , 2013, 84, 015008.	0.6	6

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37	Array of Microfluidic Beam Resonators for Density and Viscosity Analysis of Liquids. Journal of Microelectromechanical Systems, 2017, 26, 749-757.	1.7	4
38	Nanomechanics for specific biological detection. , 2003, 5118, 197.		3
39	Towards a biosensing multiple platform based on an array of hollow microbridge resonators. , 2014, , .		3
40	Low cost nanomechanical surfaces stress based sensors fabricated by hybrid materials. , 2017, , .		2
41	Direct Color Observation of Lightâ€Driven Molecular Conformationâ€Induced Stress. Small Methods, 2022, 6, 2101283.	4.6	2
42	Simulation and characterization of hollow microbridge resonators for label-free biosensing. , 2015, , .		0