

Mar Alvarez

List of Publications by Year in descending order

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42
papers

2,277
citations

279487

23
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329751

37
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all docs

43
docs citations

43
times ranked

2914
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic Plasmonicâ€Enhanced Fabryâ€PÃ©rot Cavities with Ultrasensitive Stretching Tunability. <i>Advanced Materials</i> , 2022, 34, e2106731.	11.1	7
2	Direct Color Observation of Lightâ€Driven Molecular Conformationâ€Induced Stress. <i>Small Methods</i> , 2022, 6, 2101283.	4.6	2
3	Engineering Tissue Barrier Models on Hydrogel Microfluidic Platforms. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13920-13933.	4.0	42
4	Cut-on-a-chip: Mimicking and monitoring the human intestine. <i>Biosensors and Bioelectronics</i> , 2021, 181, 113156.	5.3	58
5	Ultrabroadband light absorbing Fe/polymer flexible metamaterial for soft opto-mechanical devices. <i>Applied Materials Today</i> , 2021, 23, 101052.	2.3	8
6	Mechanochromic Detection for Soft Opto-Magnetic Actuators. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47871-47881.	4.0	10
7	Nanomechanical Sensors as a Tool for Bacteria Detection and Antibiotic Susceptibility Testing. <i>Frontiers in Mechanical Engineering</i> , 2020, 6, .	0.8	25
8	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
9	Color tunable pressure sensors based on polymer nanostructured membranes for optofluidic applications. <i>Scientific Reports</i> , 2019, 9, 3259.	1.6	35
10	Engineering and monitoring cellular barrier models. <i>Journal of Biological Engineering</i> , 2018, 12, 18.	2.0	52
11	3D Printed porous polyamide macrocapsule combined with alginate microcapsules for safer cell-based therapies. <i>Scientific Reports</i> , 2018, 8, 8512.	1.6	25
12	Array of Microfluidic Beam Resonators for Density and Viscosity Analysis of Liquids. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 749-757.	1.7	4
13	Asymmetrically coupled resonators for mass sensing. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	39
14	Low cost nanomechanical surfaces stress based sensors fabricated by hybrid materials. , 2017, , .		2
15	Species-specific modulation of food-search behavior by respiration and chemosensation in <i>Drosophila</i> larvae. <i>ELife</i> , 2017, 6, .	2.8	31
16	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
17	Simulation and characterization of hollow microbridge resonators for label-free biosensing. , 2015, , .		0
18	Sensitivity analysis for improving nanomechanical photonic transducers biosensors. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 335401.	1.3	8

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19	Towards a biosensing multiple platform based on an array of hollow microbridge resonators. , 2014, ,		3
20	Direct Detection of Protein Biomarkers in Human Fluids Using Site-Specific Antibody Immobilization Strategies. Sensors, 2014, 14, 2239-2258.	2.1	69
21	A comparative study of in-flow and micro-patterning biofunctionalization protocols for nanophotonic silicon-based biosensors. Journal of Colloid and Interface Science, 2013, 393, 402-410.	5.0	26
22	Development of a surface plasmon resonance and nanomechanical biosensing hybrid platform for multiparametric reading. Review of Scientific Instruments, 2013, 84, 015008.	0.6	6
23	Integrated optical devices for lab-on-a-chip biosensing applications. Laser and Photonics Reviews, 2012, 6, 463-487.	4.4	465
24	Microcantilever-based platforms as biosensing tools. Analyst, The, 2010, 135, 827.	1.7	157
25	Rapid production of protein-loaded biodegradable microparticles using surface acoustic waves. Biomicrofluidics, 2009, 3, 014102.	1.2	48
26	Biosensors Based on Cantilevers. Methods in Molecular Biology, 2009, 504, 51-71.	0.4	9
27	Surface Vibration Induced Spatial Ordering of Periodic Polymer Patterns on a Substrate. Langmuir, 2008, 24, 10629-10632.	1.6	71
28	CANTILEVER BIOSENSORS. , 2008, , 419-452.		9
29	Rapid generation of protein aerosols and nanoparticles via surface acoustic wave atomization. Nanotechnology, 2008, 19, 455103.	1.3	103
30	A highly sensitive microsystem based on nanomechanical biosensors for genomics applications. Sensors and Actuators B: Chemical, 2006, 118, 2-10.	4.0	68
31	Nanomechanical biosensors: a new sensing tool. TrAC - Trends in Analytical Chemistry, 2006, 25, 196-206.	5.8	248
32	T-shaped microcantilever sensor with reduced deflection offset. Applied Physics Letters, 2006, 89, 094109.	1.5	16
33	Dimension dependence of the thermomechanical noise of microcantilevers. Journal of Applied Physics, 2006, 99, 024910.	1.1	24
34	Optical sequential readout of microcantilever arrays for biological detection. Sensors and Actuators B: Chemical, 2005, 106, 687-690.	4.0	54
35	Highly sensitive polymer-based cantilever-sensors for DNA detection. Ultramicroscopy, 2005, 105, 215-222.	0.8	153
36	Real-time profile of microcantilevers for sensing applications. Applied Physics Letters, 2005, 87, 234102.	1.5	45

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37	Nanomechanics of the Formation of DNA Self-Assembled Monolayers and Hybridization on Microcantilevers. <i>Langmuir</i> , 2004, 20, 9663-9668.	1.6	97
38	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
39	Development of nanomechanical biosensors for detection of the pesticide DDT. <i>Biosensors and Bioelectronics</i> , 2003, 18, 649-653.	5.3	155
40	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
41	Nanomechanics for specific biological detection. , 2003, 5118, 197.		3
42	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