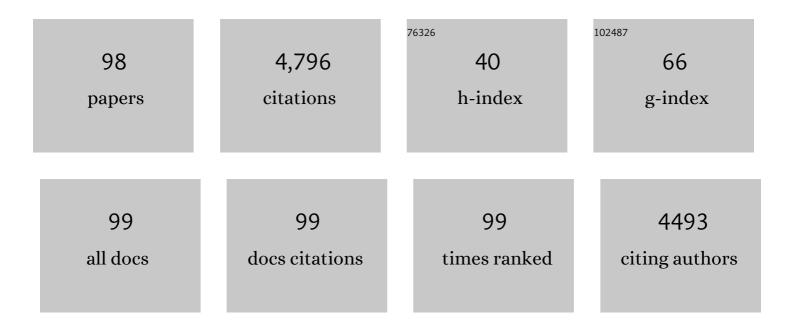
List of Publications by Year in descending order

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Ρλι Μιιτηλραςλη

#	Article	IF	CITATIONS
1	Acoustofluidic particle trapping, manipulation, and release using dynamic-mode cantilever sensors. Analyst, The, 2017, 142, 123-131.	3.5	3
2	Nucleic acid electrochemical and electromechanical biosensors: a review of techniques and developments. Reviews in Analytical Chemistry, 2014, 33, .	3.2	19
3	Biosensor-based microRNA detection: techniques, design, performance, and challenges. Analyst, The, 2014, 139, 1576.	3.5	136
4	Piezoelectric excited millimeter sized cantilever sensors for measuring gas density changes. Sensors and Actuators B: Chemical, 2014, 192, 99-104.	7.8	28
5	Reduction of nonspecific protein adsorption on cantilever biosensors caused by transverse resonant mode vibration. Analyst, The, 2014, 139, 1112.	3.5	10
6	A Cantilever Biosensor-Based Assay for Toxin-Producing Cyanobacteria <i>Microcystis aeruginosa</i> using 16S rRNA. Environmental Science & Technology, 2013, 47, 12333-12341.	10.0	23
7	Electrochemical piezoelectric-excited millimeter-sized cantilever (ePEMC) for simultaneous dual transduction biosensing. Analyst, The, 2013, 138, 6365.	3.5	7
8	A method for DNA-based detection of E. coli O157:H7 in a proteinous background using piezoelectric-excited cantilever sensors. Analyst, The, 2013, 138, 2943.	3.5	39
9	Half Antibody Fragments Improve Biosensor Sensitivity without Loss of Selectivity. Analytical Chemistry, 2013, 85, 2472-2477.	6.5	69
10	Mechanical vibration-assisted modulation of E. coli binding to poly-l-lysine coated biosensor surface. Sensors and Actuators B: Chemical, 2013, 176, 1141-1146.	7.8	5
11	Review of biosensors for foodborne pathogens and toxins. Sensors and Actuators B: Chemical, 2013, 183, 535-549.	7.8	194
12	Rapid and sensitive immunodetection of Listeria monocytogenes in milk using a novel piezoelectric cantilever sensor. Biosensors and Bioelectronics, 2013, 45, 158-162.	10.1	79
13	<i>hly</i> A Gene-Based Sensitive Detection of <i>Listeria monocytogenes</i> Using a Novel Cantilever Sensor. Analytical Chemistry, 2013, 85, 3222-3228.	6.5	57
14	Regeneration of Gold Surfaces Covered by Adsorbed Thiols and Proteins Using Liquid-Phase Hydrogen Peroxide-Mediated UV-Photooxidation. Journal of Physical Chemistry C, 2013, 117, 1335-1341.	3.1	20
15	Torsional and Lateral Resonant Modes of Cantilevers as Biosensors: Alternatives to Bending Modes. Analytical Chemistry, 2013, 85, 1760-1766.	6.5	17
16	pH Effect on Protein G Orientation on Gold Surfaces and Characterization of Adsorption Thermodynamics. Langmuir, 2012, 28, 6928-6934.	3.5	33
17	A novel pulsed-plasma approach for protein immobilization by grafting reactive amine groups on polyurethane-coated biosensors. Sensors and Actuators B: Chemical, 2012, 173, 569-574.	7.8	1
18	Sample Preparation-Free, Real-Time Detection of microRNA in Human Serum Using Piezoelectric Cantilever Biosensors at Attomole Level. Analytical Chemistry, 2012, 84, 10426-10436.	6.5	70

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19	Biosensing using dynamic-mode cantilever sensors: A review. Biosensors and Bioelectronics, 2012, 32, 1-18.	10.1	255
20	Highly Sensitive and Rapid Detection of Microcystin-LR in Source and Finished Water Samples Using Cantilever Sensors. Environmental Science & Technology, 2011, 45, 1490-1496.	10.0	31
21	Cell Viability Measurement Using 2′,7′-Bis-(2-carboxyethyl)-5-(and-6)-carboxyfluorescein Acetoxymethyl Ester and a Cantilever Sensor. Analytical Chemistry, 2011, 83, 1480-1483.	6.5	11
22	Nature of sensitive high-order resonant modes in piezoelectric excited millimeter sized cantilever (PEMC) sensors. Sensors and Actuators A: Physical, 2011, 171, 79-86.	4.1	8
23	A method for characterizing mechanical properties of sugar films using a piezoelectric-excited millimeter sized cantilever (PEMC) sensor. Sensors and Actuators B: Chemical, 2011, 160, 1304-1308.	7.8	0
24	Piezoelectric cantilever sensors with asymmetric anchor exhibit picogram sensitivity in liquids. Sensors and Actuators B: Chemical, 2011, 153, 64-70.	7.8	41
25	The origin of low-order and high-order impedance-coupled resonant modes in piezoelectric-excited millimeter-sized cantilever (PEMC) sensors: Experiments and finite element models. Sensors and Actuators B: Chemical, 2011, 155, 868-877.	7.8	25
26	Adhesion determines resonance response of piezoelectric cantilever sensors. Applied Physics Letters, 2011, 98, 114101.	3.3	3
27	Persistence of bending and torsional modes in piezoelectric-excited millimeter-sized cantilever (PEMC) sensors in viscous liquids - 1 to 103 cP. Journal of Applied Physics, 2011, 109, .	2.5	17
28	A novel experimental technique for determining node location in resonant mode cantilevers. Journal of Micromechanics and Microengineering, 2011, 21, 065027.	2.6	11
29	Measurement and Modeling of Diffusion Kinetics of a Lipophilic Molecule Across Rabbit Cornea. Pharmaceutical Research, 2010, 27, 699-711.	3.5	25
30	Sensitive and selective detection of mycoplasma in cell culture samples using cantilever sensors. Biotechnology and Bioengineering, 2010, 105, 1069-1077.	3.3	11
31	Mass-change sensitivity of high-order mode of piezoelectric-excited millimeter-sized cantilever (PEMC) sensors: Theory and experiments. Sensors and Actuators B: Chemical, 2010, 143, 731-739.	7.8	34
32	Impedance change as an alternate measure of resonant frequency shift of piezoelectric-excited millimeter-sized cantilever (PEMC) sensors. Sensors and Actuators B: Chemical, 2010, 145, 601-604.	7.8	14
33	Detection of Cryptosporidium parvum in buffer and in complex matrix using PEMC sensors at 500cystsmLâ^'1. Analytica Chimica Acta, 2010, 669, 81-86.	5.4	18
34	Expression of picogram sensitive bending modes in piezoelectric cantilever sensors with nonuniform electric fields generated by asymmetric electrodes. Review of Scientific Instruments, 2010, 81, 125108.	1.3	11
35	Rapid and Sensitive Detection of <i>Giardia lamblia</i> Using a Piezoelectric Cantilever Biosensor in Finished and Source Waters. Environmental Science & Technology, 2010, 44, 1736-1741.	10.0	40
36	Cantilever biosensors in drug discovery. Expert Opinion on Drug Discovery, 2009, 4, 1237-1251.	5.0	22

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37	Piezoelectric-excited Millimeter-sized Cantilever (PEMC) Sensors for Detecting Bioterrorism Agents. ACS Symposium Series, 2009, , 25-38.	0.5	Ο
38	A novel method for monitoring mass-change response of piezoelectric-excited millimeter-sized cantilever (PEMC) sensors. Sensors and Actuators B: Chemical, 2009, 143, 144-151.	7.8	16
39	Piezoelectric-Excited Millimeter-Sized Cantilever Biosensors. Methods in Molecular Biology, 2009, 504, 73-82.	0.9	2
40	Mass-change sensitivity of piezoelectric-excited millimeter-sized cantilever (PEMC) sensors: Model and experiments. Sensors and Actuators B: Chemical, 2008, 132, 140-148.	7.8	15
41	Model protein detection using antibody-immobilized tapered fiber optic biosensors (TFOBS) in a flow cell at 1310nm and 1550nm. Sensors and Actuators B: Chemical, 2008, 129, 716-725.	7.8	25
42	Label-free detection of DNA hybridization using gold-coated tapered fiber optic biosensors (TFOBS) in a flow cell at 1310nm and 1550nm. Sensors and Actuators B: Chemical, 2008, 131, 640-645.	7.8	54
43	Near real-time detection of Cryptosporidium parvum oocyst by IgM-functionalized piezoelectric-excited millimeter-sized cantilever biosensor. Biosensors and Bioelectronics, 2008, 23, 1039-1045.	10.1	63
44	Cantilever Sensors for Pathogen Detection. , 2008, , 459-480.		3
45	Detection and Confirmation of Staphylococcal Enterotoxin B in Apple Juice and Milk Using Piezoelectric-Excited Millimeter-Sized Cantilever Sensors at 2.5 fg/mL. Analytical Chemistry, 2007, 79, 7636-7643.	6.5	61
46	Method for Quantification of a Prostate Cancer Biomarker in Urine without Sample Preparation. Analytical Chemistry, 2007, 79, 7683-7690.	6.5	42
47	Method for Label-Free Detection of Femtogram Quantities of Biologics in Flowing Liquid Samples. Analytical Chemistry, 2007, 79, 2762-2770.	6.5	73
48	PEMC-based Method of Measuring DNA Hybridization at Femtomolar Concentration Directly in Human Serum and in the Presence of Copious Noncomplementary Strands. Analytical Chemistry, 2007, 79, 7392-7400.	6.5	59
49	A Method of MeasuringEscherichia ColiO157:H7 at 1 Cell/mL in 1 Liter Sample Using Antibody Functionalized Piezoelectric-Excited Millimeter-Sized Cantilever Sensor. Environmental Science & Technology, 2007, 41, 1668-1674.	10.0	53
50	Method of MeasuringBacillusanthracisSpores in the Presence of Copious Amounts ofBacillusthuringiensisandBacilluscereus. Analytical Chemistry, 2007, 79, 1145-1152.	6.5	54
51	Preparation-Free Method for Detecting Escherichia coli O157:H7 in the Presence of Spinach, Spring Lettuce Mix, and Ground Beef Particulates. Journal of Food Protection, 2007, 70, 2651-2655.	1.7	25
52	10-Minute Assay for Detecting Escherichia coli O157:H7 in Ground Beef Samples Using Piezoelectric-Excited Millimeter-Size Cantilever Sensors. Journal of Food Protection, 2007, 70, 1670-1677.	1.7	45
53	Detect of Escherichia coli O157:H7 in ground beef samples using piezoelectric excited millimeter-sized cantilever (PEMC) sensors. Biosensors and Bioelectronics, 2007, 22, 1296-1302.	10.1	59
54	Viscosity and density values from excitation level response of piezoelectric-excited cantilever sensors. Sensors and Actuators A: Physical, 2007, 138, 44-51.	4.1	71

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55	Real-time monitoring of bovine serum albumin at femtogram/mL levels on antibody-immobilized tapered fibers. Sensors and Actuators B: Chemical, 2007, 123, 888-895.	7.8	34
56	Piezoelectric-excited millimeter-sized cantilever sensors detect density differences of a few micrograms/mL in liquid medium. Sensors and Actuators B: Chemical, 2007, 124, 237-244.	7.8	34
57	Detection of Staphylococcus enterotoxin B at picogram levels using piezoelectric-excited millimeter-sized cantilever sensors. Sensors and Actuators B: Chemical, 2007, 126, 354-360.	7.8	54
58	Detection of airborne Bacillus anthracis spores by an integrated system of an air sampler and a cantilever immunosensor. Sensors and Actuators B: Chemical, 2007, 127, 376-382.	7.8	24
59	Method for Measuring the Self-Assembly of Alkanethiols on Gold at Femtomolar Concentrations. Langmuir, 2007, 23, 6856-6863.	3.5	25
60	Optimization of antibody immobilization for sensing using piezoelectrically excited-millimeter-sized cantilever (PEMC) sensors. Sensors and Actuators B: Chemical, 2007, 123, 474-479.	7.8	28
61	A review of fiber-optic biosensors. Sensors and Actuators B: Chemical, 2007, 125, 688-703.	7.8	582
62	Use of Piezoelectric-Excited Millimeter-Sized Cantilever Sensors To Measure Albumin Interaction with Self-Assembled Monolayers of Alkanethiols Having Different Functional Headgroups. Analytical Chemistry, 2006, 78, 2328-2334.	6.5	42
63	Measuring bacterial growth by tapered fiber and changes in evanescent field. Biosensors and Bioelectronics, 2006, 21, 1339-1344.	10.1	15
64	Piezoelectric-excited millimeter-sized cantilever (PEMC) sensors detect Bacillus anthracis at 300spores/mL. Biosensors and Bioelectronics, 2006, 21, 1684-1692.	10.1	74
65	PEMC sensor's mass change sensitivity is 20pg/Hz under liquid immersion. Biosensors and Bioelectronics, 2006, 22, 35-41.	10.1	26
66	Effects of geometry on transmission and sensing potential of tapered fiber sensors. Biosensors and Bioelectronics, 2006, 21, 2202-2209.	10.1	58
67	Detection of Bacillus anthracis spores and a model protein using PEMC sensors in a flow cell at 1mL/min. Biosensors and Bioelectronics, 2006, 22, 78-85.	10.1	53
68	Rapid assessment of Escherichia coli by growth rate on piezoelectric-excited millimeter-sized cantilever (PEMC) sensors. Sensors and Actuators B: Chemical, 2006, 117, 58-64.	7.8	22
69	Escherichia coli O157:H7 Detection Limit of Millimeter-Sized PZT Cantilever Sensors is 700 Cells/mL. Analytical Sciences, 2005, 21, 355-357.	1.6	29
70	Sensing of liquid level at micron resolution using self-excited millimeter-sized PZT-cantilever. Sensors and Actuators A: Physical, 2005, 122, 326-334.	4.1	49
71	Detection of pathogen Escherichia coli O157:H7 using self-excited PZT-glass microcantilevers. Biosensors and Bioelectronics, 2005, 21, 462-473.	10.1	88
72	Detection and quantification of proteins using self-excited PZT-glass millimeter-sized cantilever. Biosensors and Bioelectronics, 2005, 21, 597-607.	10.1	47

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73	Detection of pathogen Escherichia coli O157:H7 AT 70cells/mL using antibody-immobilized biconical tapered fiber sensors. Biosensors and Bioelectronics, 2005, 21, 871-880.	10.1	76
74	Protein response of insect cells to bioreactor environmental stresses. Journal of Biotechnology, 2005, 118, 278-289.	3.8	9
75	Monitoring of the Self-Assembled Monolayer of 1-Hexadecanethiol on a Gold Surface at Nanomolar Concentration Using a Piezo-Excited Millimeter-Sized Cantilever Sensor. Langmuir, 2005, 21, 11568-11573.	3.5	34
76	Fabrication of biconical tapered optical fibers using hydrofluoric acid. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 97, 87-93.	3.5	47
77	Evanescent sensing of biomolecules and cells. Sensors and Actuators B: Chemical, 2003, 88, 67-74.	7.8	28
78	Fluorescent sensing using biconical tapers. Sensors and Actuators B: Chemical, 2003, 96, 315-320.	7.8	40
79	In situcell detection using piezoelectric lead zirconate titanate-stainless steel cantilevers. Journal of Applied Physics, 2003, 93, 619-625.	2.5	93
80	Decolorization of the Dye, Reactive Blue 19, Using Ozonation, Ultrasound, and Ultrasound-Enhanced Ozonation. Water Environment Research, 2003, 75, 171-179.	2.7	34
81	A rapid method for measuring intracellular pH using BCECF-AM. Biochimica Et Biophysica Acta - General Subjects, 2002, 1572, 143-148.	2.4	76
82	Multi-rate nonlinear state and parameter estimation in a bioreactor. , 1999, 63, 22-32.		57
83	Feasibility of aluminium nitride formation in aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 195, 121-129.	5.6	101
84	Effect of Taxol and Diamide on Shear Tolerance of Hybridoma and Insect Cells. Annals of the New York Academy of Sciences, 1994, 745, 167-176.	3.8	1
85	Effect of serum on the plasma membrane fluidity of hybridomas: an insight into its shear protective mechanism. Biotechnology Progress, 1992, 8, 40-50.	2.6	34
86	NADH fluorescence and oxygen uptake responses of hybridoma cultures to substrate pulse and step changes. Biotechnology and Bioengineering, 1991, 37, 141-159.	3.3	57
87	The influence of temperature on a mouse-mouse hybridoma growth and monoclonal antibody production. Biotechnology and Bioengineering, 1991, 37, 292-295.	3.3	82
88	Bovine colostrum or milk as a serum substitute for the cultivation of a mouse hybridoma. Biotechnology and Bioengineering, 1990, 35, 882-889.	3.3	30
89	Cell cycle- and growth phase-dependent variations in size distribution, antibody productivity, and oxygen demand in hybridoma cultures. Biotechnology and Bioengineering, 1990, 36, 839-848.	3.3	152
90	The role of the plasma membrane fluidity on the shear sensitivity of hybridomas grown under hydrodynamic stress. Biotechnology and Bioengineering, 1990, 36, 911-920.	3.3	115

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91	Physical immobilization characteristics of a hybridoma in a glass bead packed-bed reactor. Biotechnology and Bioengineering, 1989, 33, 1072-1076.	3.3	18
92	NADH and flavin fluorescence responses of starved yeast cultures to substrate additions. Biotechnology and Bioengineering, 1989, 34, 660-670.	3.3	48
93	Manipulation of End-Product Distribution in Strict Anaerobes. Annals of the New York Academy of Sciences, 1987, 506, 76-83.	3.8	17
94	Experimental observations of wall slip: tube and packed bed flow. Industrial & Engineering Chemistry Research, 1987, 26, 1609-1616.	3.7	38
95	Inner filter effects and their interferences in the interpretation of culture fluorescence. Biotechnology and Bioengineering, 1987, 30, 769-774.	3.3	72
96	Altered Electron Flow in Continuous Cultures of <i>Clostridium acetobutylicum</i> Induced by Viologen Dyes. Applied and Environmental Microbiology, 1987, 53, 1232-1235.	3.1	84
97	Ethanol fermentation characteristics of Thermoanaerobacter ethanolicus. Enzyme and Microbial Technology, 1985, 7, 87-89.	3.2	20
98	Physical refining of steel melts by filtration. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1985, 16, 725-742.	0.4	42