

# Joao P Conde

## List of Publications by Year in descending order

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270  
papers

4,358  
citations

126708

33  
h-index

189595

50  
g-index

273  
all docs

273  
docs citations

273  
times ranked

4308  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microchromatography integrated with impedance sensor for bioprocess optimization: Experimental and numerical study of column efficiency for evaluation of scalability. <i>Journal of Chromatography A</i> , 2022, 1661, 462678.	1.8	7
2	Pre-miRNA-149 G-quadruplex as a molecular agent to capture nucleolin. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 169, 106093.	1.9	7
3	Monolithically integrated optical interference and absorption filters on thin film amorphous silicon photosensors for biological detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 356, 131330.	4.0	7
4	Accurate and rapid microfluidic ELISA to monitor Infiximab titers in patients with inflammatory bowel diseases. <i>Analyst, The</i> , 2022, 147, 480-488.	1.7	4
5	Monolithic Integration of Multi-Spectral Optical Interference Filter Array on Thin Film Amorphous Silicon Photodiodes. <i>IEEE Sensors Journal</i> , 2022, 22, 5636-5643.	2.4	5
6	Micropathological Chip Modeling the Neurovascular Unit Response to Inflammatory Bone Condition. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102305.	3.9	14
7	Regenerable bead-based microfluidic device with integrated thin-film photodiodes for real-time monitoring of DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 359, 131607.	4.0	5
8	A Systematic Approach for Developing 3D High-Quality PDMS Microfluidic Chips Based on Micromilling Technology. <i>Micromachines</i> , 2022, 13, 6.	1.4	5
9	Monitoring Intracellular Calcium in Response to GPCR Activation: Comparison Between Microtiter Plates and Microfluidic Assays. <i>Methods in Molecular Biology</i> , 2021, 2268, 289-304.	0.4	0
10	Recent developments in microreactor technology for biocatalysis applications. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 815-827.	1.9	17
11	Rolling Circle Amplification in Bead-Based Microfluidic Device with Integrated Photodiode for Fluorescence Signal Transduction. , 2021, , .		1
12	A Fast Alternative to Soft Lithography for the Fabrication of Organonano-on-a-Chip Elastomeric-Based Devices and Microactuators. <i>Advanced Science</i> , 2021, 8, 2003273.	5.6	19
13	Aptamer-based approaches to detect nucleolin in prostate cancer. <i>Talanta</i> , 2021, 226, 122037.	2.9	16
14	Label-Free Biosensing Using Thin-Film Amorphous Silicon Photodiodes Integrated With Microfluidics. <i>IEEE Sensors Journal</i> , 2021, 21, 15999-16005.	2.4	5
15	Microfluidic platform for rapid screening of bacterial cell lysis. <i>Journal of Chromatography A</i> , 2020, 1610, 460539.	1.8	7
16	Microfluidic device for multiplexed detection of fungal infection biomarkers in grape cultivars. <i>Analyst, The</i> , 2020, 145, 7973-7984.	1.7	13
17	Microfluidic bioreactors for enzymatic synthesis in packed-bed reactors—Multi-step reactions and upscaling. <i>Journal of Biotechnology</i> , 2020, 323, 24-32.	1.9	14
18	Development Of a Microfluidic Colorectal Cancer Cell Culture System with Integrated Optical Sensors for Rapid Phage Selection. , 2020, , .		0

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19	A Versatile and Fully Integrated Hand-Held Device for Microfluidic-Based Biosensing: A Case Study of Plant Health Biomarkers. <i>IEEE Sensors Journal</i> , 2020, 20, 14007-14015.	2.4	7
20	Label-Free Biosensing of DNA in Microfluidics using Amorphous Silicon Capacitive Micro-Cantilevers. <i>IEEE Sensors Journal</i> , 2020, , 1-1.	2.4	9
21	Fabrication and characterization of thin-film silicon resonators on 10 $\mu\text{m}$ -thick polyimide substrates. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 045007.	1.5	7
22	Microfluidic device for the point of need detection of a pathogen infection biomarker in grapes. <i>Analyst, The</i> , 2019, 144, 4871-4879.	1.7	15
23	Amorphous Silicon Self-Rolling Micro Electromechanical Systems: From Residual Stress Control to Complex 3D Structures. <i>Advanced Engineering Materials</i> , 2019, 21, 1900663.	1.6	7
24	A Portable Microfluidic System for the Detection of Health Biomarkers in Grapes at the Point of Need. , 2019, , .		0
25	Development of a rapid bead-based microfluidic platform for DNA hybridization using single- and multi-mode interactions for probe immobilization. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 328-336.	4.0	17
26	Nanotechnology is an important strategy for combinational innovative chemo-immunotherapies against colorectal cancer. <i>Journal of Controlled Release</i> , 2019, 307, 108-138.	4.8	49
27	Optimizing the Performance of Chromatographic Separations Using Microfluidics: Multiplexed and Quantitative Screening of Ligands and Target Molecules. <i>Biotechnology Journal</i> , 2019, 14, e1800593.	1.8	7
28	Label-Free Detection of Biomolecules in Microfluidic Systems Using On-Chip UV and Impedimetric Sensors. <i>IEEE Sensors Journal</i> , 2019, 19, 7803-7812.	2.4	13
29	Thin-Film Silicon MEMS for Dynamic Mass Sensing in Vacuum and Air: Phase Noise, Allan Deviation, Mass Sensitivity and Limits of Detection. <i>Journal of Microelectromechanical Systems</i> , 2019, 28, 390-400.	1.7	23
30	Thin-Film Silicon Resonators on Ultra-Flexible 10 Micrometer-Thick Polyimide Substrates. , 2019, , .		1
31	Silica bead-based microfluidic device with integrated photodiodes for the rapid capture and detection of rolling circle amplification products in the femtomolar range. <i>Biosensors and Bioelectronics</i> , 2019, 128, 68-75.	5.3	33
32	Applications of Recent Developments in Microfluidics for Rapid Analysis of Food Safety and Quality. <i>Food Chemistry, Function and Analysis</i> , 2019, , 256-281.	0.1	0
33	Studies on the purification of antibody fragments. <i>Separation and Purification Technology</i> , 2018, 195, 388-397.	3.9	19
34	Advances, challenges and opportunities for point-of-need screening of mycotoxins in foods and feeds. <i>Analyst, The</i> , 2018, 143, 1015-1035.	1.7	33
35	Multiplexed microfluidic fluorescence immunoassay with photodiode array signal acquisition for sub-minute and point-of-need detection of mycotoxins. <i>Lab on A Chip</i> , 2018, 18, 1569-1580.	3.1	37
36	Capillary-driven microfluidic device with integrated nanoporous microbeads for ultrarapid biosensing assays. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 452-458.	4.0	22

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37	Multiplexed capillary microfluidic immunoassay with smartphone data acquisition for parallel mycotoxin detection. <i>Biosensors and Bioelectronics</i> , 2018, 99, 40-46.	5.3	59
38	A regenerable microfluidic device with integrated valves and thin-film photodiodes for rapid optimization of chromatography conditions. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3636-3646.	4.0	22
39	Development of a Point-of-Care Platform for Plant Health Assessment: A Microfluidic Approach. <i>Proceedings (mdpi)</i> , 2018, 2, 819.	0.2	1
40	Optical biosensing in microfluidics using nanoporous microbeads and amorphous silicon thin-film photodiodes: quantitative analysis of molecular recognition and signal transduction. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 094004.	1.5	11
41	Top-Down Fabricated Silicon Nanowire Arrays for Field-Effect Detection of Prostate-Specific Antigen. <i>ACS Omega</i> , 2018, 3, 8471-8482.	1.6	31
42	Multiplexed microfluidic platform coupled with photodetector array for point-of-need and sub-minute detection of food contaminants. , 2018, , .		0
43	Quantitative analysis of optical transduction in microfluidic biosensing platforms: Nanoporous microbeads coupled with thin-film photodiodes. , 2018, , .		0
44	A microfluidic platform for physical entrapment of yeast cells with continuous production of invertase. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 334-341.	1.6	15
45	The application of microbeads to microfluidic systems for enhanced detection and purification of biomolecules. <i>Methods</i> , 2017, 116, 112-124.	1.9	45
46	Determination of partition coefficients of biomolecules in a microfluidic aqueous two phase system platform using fluorescence microscopy. <i>Journal of Chromatography A</i> , 2017, 1487, 242-247.	1.8	19
47	A multiplexed microfluidic toolbox for the rapid optimization of affinity-driven partition in aqueous two phase systems. <i>Journal of Chromatography A</i> , 2017, 1515, 252-259.	1.8	17
48	A simple method for point-of-need extraction, concentration and rapid multi-mycotoxin immunodetection in feeds using aqueous two-phase systems. <i>Journal of Chromatography A</i> , 2017, 1511, 15-24.	1.8	17
49	A point-of-use microfluidic device with integrated photodetector array for immunoassay multiplexing: Detection of a panel of mycotoxins in multiple samples. <i>Biosensors and Bioelectronics</i> , 2017, 87, 823-831.	5.3	42
50	Performance of hydrogenated amorphous silicon thin film photosensors at ultra-low light levels: towards attomole sensitivities in lab-on-chip biosensing applications. <i>IEEE Sensors Journal</i> , 2017, , 1-1.	2.4	17
51	A Novel Microfluidic Cell Co-culture Platform for the Study of the Molecular Mechanisms of Parkinson's Disease and Other Synucleinopathies. <i>Frontiers in Neuroscience</i> , 2016, 10, 511.	1.4	43
52	Electrical characterization of thin-film silicon flexural resonators in linear and nonlinear regimes of motion for integration with electronics. <i>Sensors and Actuators A: Physical</i> , 2016, 247, 482-493.	2.0	4
53	Dynamics of hydrogenated amorphous silicon flexural resonators for enhanced performance. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	7
54	Integration of Photosensors in a Nano-liter Scale Chromatography Column for the Online Monitoring of Adsorption/Desorption Kinetics of a Fluorophore-labeled Monoclonal Antibody. <i>Procedia Engineering</i> , 2016, 168, 1426-1429.	1.2	2

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55	Point-of-use Ultrafast Single-step Detection of Food Contaminants: A Novel Microfluidic Fluorescence-based Immunoassay with Integrated Photodetection. <i>Procedia Engineering</i> , 2016, 168, 329-332.	1.2	6
56	A Multiplexed Integrated a-Si:H Photosensor for Simultaneous Detection of Mycotoxins for Point-of-use Food Safety Applications. <i>Procedia Engineering</i> , 2016, 168, 1422-1425.	1.2	1
57	Microcrystalline Diamond Membrane for Electronic Monitoring of Cells in Microfluidic Perfusion Systems. <i>Procedia Engineering</i> , 2016, 168, 1442-1445.	1.2	1
58	An ultrarapid and regenerable microfluidic immunoassay coupled with integrated photosensors for point-of-use detection of ochratoxin A. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 554-562.	4.0	30
59	Study on the bio-functionalization of memristive nanowires for optimum memristive biosensors. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2153-2162.	2.9	19
60	Miniaturization of aqueous two-phase extraction for biological applications: From microtubes to microchannels. <i>Biotechnology Journal</i> , 2016, 11, 1498-1512.	1.8	23
61	Lab-on-chip systems for integrated bioanalyses. <i>Essays in Biochemistry</i> , 2016, 60, 121-131.	2.1	32
62	High-Throughput Nanoliter-Scale Analysis and Optimization of Multimodal Chromatography for the Capture of Monoclonal Antibodies. <i>Analytical Chemistry</i> , 2016, 88, 7959-7967.	3.2	32
63	DNA aptamer-based sandwich microfluidic assays for dual quantification and multi-glycan profiling of cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2016, 79, 313-319.	5.3	61
64	A microfluidic immunoassay platform for the detection of free prostate specific antigen: a systematic and quantitative approach. <i>Analyst</i> , 2015, 140, 4423-4433.	1.7	21
65	Surface plasmon resonance application in prostate cancer biomarker research. <i>Chemical Papers</i> , 2015, 69, .	1.0	18
66	A System Based on Capacitive Interfacing of CMOS With Post-Processed Thin-Film MEMS Resonators Employing Synchronous Readout for Parasitic Nulling. <i>IEEE Journal of Solid-State Circuits</i> , 2015, 50, 1002-1015.	3.5	5
67	Pressure effects on the dissipative behavior of nanocrystalline diamond microelectromechanical resonators. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 025019.	1.5	4
68	Optimization and miniaturization of aqueous two phase systems for the purification of recombinant human immunodeficiency virus-like particles from a CHO cell supernatant. <i>Separation and Purification Technology</i> , 2015, 154, 27-35.	3.9	46
69	Sub-micron gap in-plane micromechanical resonators based on low-temperature amorphous silicon thin-films on glass substrates. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 075026.	1.5	4
70	Integration of Single Cell Traps, Chemical Gradient Generator and Photosensors in a Microfluidic Platform for the Study of Alpha-Synuclein Toxicity in Yeast. <i>Procedia Engineering</i> , 2014, 87, 92-95.	1.2	0
71	Microfluidic ELISA for sensing of prostate cancer biomarkers using integrated a-Si:H p-i-n photodiodes. , 2014, , .		2
72	Monitoring intracellular calcium in response to GPCR activation using thin-film silicon photodiodes with integrated fluorescence filters. <i>Biosensors and Bioelectronics</i> , 2014, 52, 232-238.	5.3	10

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73	Integrated fluorescence detection of labeled biomolecules using a prism-like PDMS microfluidic chip and lateral light excitation. Lab on A Chip, 2014, 14, 1991.	3.1	15
74	Tunable Properties of Hydrogenated Amorphous/Nanocrystalline Silicon Thin-Films for Enhanced MEMS Resonators Performance. Journal of Microelectromechanical Systems, 2014, 23, 600-609.	1.7	9
75	Determination of aqueous two phase system binodal curves using a microfluidic device. Journal of Chromatography A, 2014, 1370, 115-120.	1.8	38
76	An ASIC for readout of post-processed thin-film MEMS resonators by employing capacitive interfacing and active parasitic cancellation. , 2014, , .		2
77	An amorphous silicon photodiode microfluidic chip to detect nanomolar quantities of HIV-1 virion infectivity factor. Analyst, The, 2014, 139, 3709-3713.	1.7	14
78	Modulation of alpha-synuclein toxicity in yeast using a novel microfluidic-based gradient generator. Lab on A Chip, 2014, 14, 3949-3957.	3.1	33
79	Aqueous two-phase systems for enhancing immunoassay sensitivity: Simultaneous concentration of mycotoxins and neutralization of matrix interference. Journal of Chromatography A, 2014, 1361, 67-76.	1.8	20
80	On-chip sample preparation and analyte quantification using a microfluidic aqueous two-phase extraction coupled with an immunoassay. Lab on A Chip, 2014, 14, 4284-4294.	3.1	50
81	Integrated optical detection of autonomous capillary microfluidic immunoassays:a hand-held point-of-care prototype. Biosensors and Bioelectronics, 2014, 57, 284-291.	5.3	45
82	Thin-film amorphous silicon photodiodes with integrated fluorescent filters for monitoring live-cell G-protein coupled receptors (GPCR). , 2014, , .		0
83	Low Temperature Sub-micron Gap Thin-film Silicon Resonators on Glass Substrate. Procedia Engineering, 2014, 87, 1418-1421.	1.2	0
84	Optically transparent diamondâ€œPDMS microfluidic system for electronic monitoring of cells. Physica Status Solidi (B): Basic Research, 2014, 251, 2593-2598.	0.7	7
85	Streaming currents in microfluidics with integrated polarizable electrodes. Microfluidics and Nanofluidics, 2013, 15, 361-376.	1.0	8
86	The effect of the surface functionalization and the electrolyte concentration on the electrical conductance of silica nanochannels. Biomicrofluidics, 2013, 7, 34111.	1.2	24
87	Detection of ochratoxin A in wine and beer by chemiluminescence-based ELISA in microfluidics with integrated photodiodes. Sensors and Actuators B: Chemical, 2013, 176, 232-240.	4.0	74
88	Control of sequential fluid delivery in a fully autonomous capillary microfluidic device. Lab on A Chip, 2013, 13, 641-645.	3.1	63
89	Autonomous capillary microfluidic immunoassay with integrated detection using microfabricated photodiodes: Towards a point-of-care device. , 2013, , .		0
90	Mechanical properties of polymer/carbon nanotube composite micro-electromechanical systems bridges. Journal of Applied Physics, 2013, 113, 134508.	1.1	2

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91	Microstructure factor and mechanical and electronic properties of hydrogenated amorphous and nanocrystalline silicon thin-films for microelectromechanical systems applications. Journal of Applied Physics, 2013, 114, .	1.1	20
92	Sub-micron gap a-Si:H thin film Lam&#x00E9;-mode resonator processed at low temperature on a glass substrate. , 2013, , .		0
93	Transient streaming current measurements in nanochannels for molecular detection. Applied Physics Letters, 2013, 103, 253112.	1.5	4
94	Study of the out-of-plane vibrational modes in thin-film amorphous silicon micromechanical disk resonators. Journal of Applied Physics, 2013, 113, .	1.1	9
95	Metabolic viability of <i><sc>E</sc>scherichia coli</i> trapped by dielectrophoresis in microfluidics. Electrophoresis, 2013, 34, 575-582.	1.3	18
96	Pressure effects on the dynamic properties of hydrogenated amorphous silicon disk resonators. Journal of Micromechanics and Microengineering, 2012, 22, 085026.	1.5	5
97	Mechanical and piezoresistive properties of thin silicon films deposited by plasma-enhanced chemical vapor deposition and hot-wire chemical vapor deposition at low substrate temperatures. Journal of Applied Physics, 2012, 112, 024906.	1.1	16
98	Integrated On-chip Photodetection of Intracellular Calcium in Response to the Activation of G-protein Coupled Receptors. Procedia Engineering, 2012, 47, 993-996.	1.2	0
99	Multi-modal Analysis of Out-of-plane Vibration Modes of Thin-film Circular Resonators for Mass Sensing Applications. Procedia Engineering, 2012, 47, 1121-1124.	1.2	4
100	Lab-on-Chip Prototype Platform for Ochratoxin A Detection in Wine and Beer. Procedia Engineering, 2012, 47, 550-553.	1.2	5
101	High-throughput study of alpha-synuclein expression in yeast using microfluidics for control of local cellular microenvironment. Biomicrofluidics, 2012, 6, 014109.	1.2	11
102	Integrated detection of intrinsic fluorophores in live microbial cells using an array of thin film amorphous silicon photodetectors. Biosensors and Bioelectronics, 2012, 36, 242-249.	5.3	8
103	Design of a microfluidic platform for monoclonal antibody extraction using an aqueous two-phase system. Journal of Chromatography A, 2012, 1249, 1-7.	1.8	54
104	Towards the miniaturization of GPCR-based live-cell screening assays. Trends in Biotechnology, 2012, 30, 566-574.	4.9	31
105	Derivation of the near-surface dielectric function of amorphous silicon from photoelectron loss spectra. Journal of Non-Crystalline Solids, 2012, 358, 2019-2022.	1.5	6
106	Mechanical characterization of all-polymer/carbon nanotube composite micro-resonators. , 2012, , .		0
107	Streaming current measurements in micro and nanofluidic channels for label-free multiplexed genomics diagnostics. , 2012, , .		1
108	Towards a high-throughput drug discovery platform for the screening of GPCR targets in cells. , 2011, , .		0

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109	Lab-on-a-Chip Ochratoxin A Detection Using Competitive ELISA in Microfluidics with Integrated Photodiode Signal Acquisition. <i>Procedia Engineering</i> , 2011, 25, 1205-1208.	1.2	6
110	Hydrogenated Amorphous Silicon Thin-Film Disk Resonators. <i>Procedia Engineering</i> , 2011, 25, 1525-1528.	1.2	0
111	Integration of Carbon Nanotubes into Electrostatically Actuated all-Polymer PEDOT: PSS/PMMA MEMS. <i>Procedia Engineering</i> , 2011, 25, 1665-1668.	1.2	3
112	Electrical detection of DNA immobilization and hybridization by streaming current measurements in microchannels. <i>Applied Physics Letters</i> , 2011, 99, 183702.	1.5	10
113	Microspot-based ELISA in microfluidics: chemiluminescence and colorimetry detection using integrated thin-film hydrogenated amorphous silicon photodiodes. <i>Lab on A Chip</i> , 2011, 11, 4063.	3.1	64
114	Submicron thin-film amorphous silicon photoconductive light sensors. <i>Sensors and Actuators A: Physical</i> , 2011, 170, 32-35.	2.0	4
115	Integration of thin film amorphous silicon photodetector with lab-on-chip for monitoring protein fluorescence in solution and in live microbial cells. <i>Sensors and Actuators B: Chemical</i> , 2011, 156, 662-667.	4.0	14
116	Microelectromechanical resonators based on an all polymer/carbon nanotube composite structural material. <i>Applied Physics Letters</i> , 2011, 99, 044104.	1.5	12
117	Heterogeneous immunoassays in microfluidic format using fluorescence detection with integrated amorphous silicon photodiodes. <i>Biomicrofluidics</i> , 2011, 5, 14102.	1.2	23
118	Thin film amorphous silicon bulk-mode disk resonators fabricated on glass substrates. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1299, 1.	0.1	2
119	Amorphous Silicon Photosensors for Detection of Intrinsic Cell Fluorophores. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1321, 435.	0.1	2
120	Reliability and stability of thin-film amorphous silicon MEMS on glass substrates. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1299, 1.	0.1	0
121	Characterisation of hydrogenated silicon-carbon alloy filters with different carbon composition for on-chip fluorescence detection of biomolecules. <i>Sensors and Actuators A: Physical</i> , 2010, 163, 96-100.	2.0	20
122	Patterned functionalization layer for sub- $\mu$ L DNA solid-phase immobilization and hybridization. <i>Sensors and Actuators B: Chemical</i> , 2010, 149, 432-438.	4.0	2
123	Selective patterning of covalent molecular grafting on doped amorphous silicon templates. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, NA-NA.	0.8	0
124	Spectral selectivity constraints in fluorescence detection of biomolecules using amorphous silicon based detectors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 1156-1159.	0.8	2
125	Reply to "Comment on "Current routes in hydrogenated microcrystalline silicon". <i>Physical Review B</i> , 2010, 81, .	1.1	2
126	Mechanical properties of thin silicon films deposited at low temperatures by PECVD. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 035022.	1.5	21



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127	Detection of fluorescently labeled biomolecules immobilized on a detachable substrate using an integrated amorphous silicon photodetector. Applied Physics Letters, 2009, 94, 164106.	1.5	10
128	Thermal grafting of fluorinated molecular monolayers on doped amorphous silicon surfaces. Journal of Applied Physics, 2009, 105, 064914.	1.1	3
129	Chemiluminescent Detection of Horseradish Peroxidase Using an Integrated Amorphous Silicon Thin-Film Photosensor. IEEE Sensors Journal, 2009, 9, 1282-1290.	2.4	23
130	Comparison of amorphous silicon photodiodes and photoconductors for detection of quantum dot biomolecular tags. Journal of Applied Physics, 2009, 106, .	1.1	7
131	The effect of the shape of single, sub-ms voltage pulses on the rates of surface immobilization and hybridization of DNA. Nanotechnology, 2009, 20, 015503.	1.3	6
132	Comparison of the mechanical and resonance properties of thin film silicon MEMS fabricated at 110 and 250 Å°C. Journal of Micromechanics and Microengineering, 2009, 19, 025018.	1.5	12
133	Enzymatic Biosensors with Integrated Thin Film a-Si:H Photodiodes. Materials Research Society Symposia Proceedings, 2009, 1153, 1.	0.1	0
134	Miniaturization of Immunoassays Using Optical Detection with Integrated Amorphous Silicon Photodiodes. Materials Research Society Symposia Proceedings, 2009, 1191, 66.	0.1	0
135	Thin Film Amorphous Silicon Nanoscale Photodetectors. Procedia Chemistry, 2009, 1, 433-436.	0.7	1
136	Mass Sensing using an Amorphous Silicon MEMS resonator. Procedia Chemistry, 2009, 1, 1063-1066.	0.7	4
137	Ionic Conductivity Measurements in a SiO <sub>2</sub> Nanochannel with PDMS Interconnects. Procedia Chemistry, 2009, 1, 1095-1098.	0.7	4
138	Microscopic and macroscopic manifestations of percolation transitions in a semiconductor composite. Physical Review B, 2009, 80, .	1.1	10
139	On-chip magnetoresistive detection of resonance in microcantilevers. Applied Physics Letters, 2009, 95, .	1.5	16
140	Performance of thin film silicon MEMS on flexible plastic substrates. Sensors and Actuators A: Physical, 2008, 144, 201-206.	2.0	27
141	Colorimetric detection of molecular recognition reactions with an enzyme biolabel using a thin-film amorphous silicon photodiode on a glass substrate. Sensors and Actuators B: Chemical, 2008, 135, 102-107.	4.0	13
142	Observation of field-effect in a cross-linked polyfluorene semiconductor. Chemical Physics Letters, 2008, 455, 189-191.	1.2	15
143	Detection of DNA and proteins using amorphous silicon ion-sensitive thin-film field effect transistors. Biosensors and Bioelectronics, 2008, 24, 545-551.	5.3	83
144	Hybrid Magnetic Tunnel Junction-MEMS High Frequency Field Modulator for 1/f Noise Suppression. IEEE Transactions on Magnetics, 2008, 44, 2554-2557.	1.2	25

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145	Detection of molecular tags with an integrated amorphous silicon photodetector for biological applications. Journal of Non-Crystalline Solids, 2008, 354, 2594-2597.	1.5	14
146	Amorphous Silicon Thin-Film Transistors Gated Through an Electrolyte Solution. IEEE Electron Device Letters, 2008, 29, 1030-1033.	2.2	3
147	Fluorescence detection of DNA using an amorphous silicon p-i-n photodiode. Journal of Applied Physics, 2008, 104, 054913.	1.1	17
148	Mechanical Properties and Reliability of Amorphous vs. Polycrystalline Silicon Thin Films. Materials Research Society Symposia Proceedings, 2008, 1066, 1.	0.1	5
149	Hybrid magnetoresistive microelectromechanical devices for static field modulation and sensor noise cancellation. Journal of Applied Physics, 2008, 103, .	1.1	43
150	On-Chip Control of DNA Immobilization and Hybridization with Nanosecond Electric Field Pulses. , 2007, , .		1
151	Performance of Thin Film Silicon MEMS on Flexible Plastic Substrates. Materials Research Society Symposia Proceedings, 2007, 989, 2.	0.1	5
152	Electrostatically actuated bilayer polyimide-based microresonators. Journal of Micromechanics and Microengineering, 2007, 17, 797-803.	1.5	14
153	Surface micromachining of a thin film microresonator using dry decomposition of a polymer sacrificial layer. Journal of Vacuum Science & Technology B, 2007, 25, 455.	1.3	5
154	Flexural and torsional vibration modes in low temperature thin-film silicon paddle microresonators. Applied Physics Letters, 2007, 90, 233502.	1.5	1
155	Detection of Chemiluminescence Using an Amorphous Silicon Photodiode. IEEE Sensors Journal, 2007, 7, 415-416.	2.4	31
156	Resonance of electrostatically actuated thin-film amorphous silicon microelectromechanical systems microresonators in aqueous solutions: Effect of solution conductivity and viscosity. Journal of Applied Physics, 2007, 101, 094308.	1.1	8
157	Conductive Blended Polymer MEMS Microresonators. Journal of Microelectromechanical Systems, 2007, 16, 329-335.	1.7	8
158	Nanotechnology and the Detection of Biomolecular Recognition Using Magnetoresistive Transducers. , 2007, , 3-22.		1
159	Electrostatically actuated conducting polymer microbridges. Journal of Applied Physics, 2007, 101, 064507.	1.1	11
160	pH sensitive photoconductor based on poly(para-phenylene-vinylene). Sensors and Actuators B: Chemical, 2007, 123, 153-157.	4.0	16
161	Noise Characteristics and Particle Detection Limits in Diode Matrix Elements for Biochip Applications. IEEE Transactions on Magnetics, 2007, 43, 2403-2405.	1.2	15
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