

Virginia Chu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

304
papers

3,942
citations

31
h-index

47
g-index

324
ext. papers

4,360
ext. citations

4.2
avg, IF

5.24
L-index

#	Paper	IF	Citations
304	Monolithic integration of multi-spectral optical interference filter array on thin film amorphous silicon photodiodes. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	1
303	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	8.5	1
302	Micropathological chip modelling the neurovascular unit response to inflammatory bone condition.. <i>Advanced Healthcare Materials</i> , 2022 , e2102305	10.1	0
301	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	8.5	2
300	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> , 2021 , 1661, 462678	4.5	1
299	Pre-miRNA-149 G-quadruplex as a molecular agent to capture nucleolin.. <i>European Journal of Pharmaceutical Sciences</i> , 2021 , 169, 106093	5.1	3
298	Microfluidic device for multiplexed detection of fungal infection biomarkers in grape cultivars. <i>Analyst, The</i> , 2021 , 145, 7973-7984	5	7
297	Aptamer-based approaches to detect nucleolin in prostate cancer. <i>Talanta</i> , 2021 , 226, 122037	6.2	7
296	Label-Free Biosensing Using Thin-Film Amorphous Silicon Photodiodes Integrated With Microfluidics. <i>IEEE Sensors Journal</i> , 2021 , 21, 15999-16005	4	2
295	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	1.4	
294	Recent developments in microreactor technology for biocatalysis applications. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 815-827	4.9	6
293	Rolling Circle Amplification in Bead-Based Microfluidic Device with Integrated Photodiode for Fluorescence Signal Transduction 2021 ,		1
292	A Systematic Approach for Developing 3D High-Quality PDMS Microfluidic Chips Based on Micromilling Technology.. <i>Micromachines</i> , 2021 , 13,	3.3	1
291	Magnetostriction in Amorphous Co ₆₆ Fe ₃₄ Microcantilevers Fabricated with Hydrogenated Amorphous Silicon. <i>EPJ Web of Conferences</i> , 2020 , 233, 05003	0.3	
290	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	4	2
289	Label-Free Biosensing of DNA in Microfluidics Using Amorphous Silicon Capacitive Micro-Cantilevers. <i>IEEE Sensors Journal</i> , 2020 , 1-1	4	4
288	Fabrication and characterization of thin-film silicon resonators on 10 μm -thick polyimide substrates. <i>Journal of Micromechanics and Microengineering</i> , 2020 , 30, 045007	2	2

287	Microfluidic platform for rapid screening of bacterial cell lysis. <i>Journal of Chromatography A</i> , 2020 , 1610, 460539	4.5	3
286	Microfluidic bioreactors for enzymatic synthesis in packed-bed reactors-Multi-step reactions and upscaling. <i>Journal of Biotechnology</i> , 2020 , 323, 24-32	3.7	10
285	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	8.5	8
284	Optimizing the Performance of Chromatographic Separations Using Microfluidics: Multiplexed and Quantitative Screening of Ligands and Target Molecules. <i>Biotechnology Journal</i> , 2019 , 14, e1800593	5.6	5
283	Label-Free Detection of Biomolecules in Microfluidic Systems Using On-Chip UV and Impedimetric Sensors. <i>IEEE Sensors Journal</i> , 2019 , 19, 7803-7812	4	9
282	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	2.5	13
281	Microfluidic device for the point of need detection of a pathogen infection biomarker in grapes. <i>Analyst, The</i> , 2019 , 144, 4871-4879	5	9
280	Amorphous Silicon Self-Rolling Micro Electromechanical Systems: From Residual Stress Control to Complex 3D Structures. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900663	3.5	2
279	CHAPTER 12. Applications of Recent Developments in Microfluidics for Rapid Analysis of Food Safety and Quality. <i>Food Chemistry, Function and Analysis</i> , 2019 , 256-281	0.6	
278	2019 ,		1
277	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	11.8	24
276	Studies on the purification of antibody fragments. <i>Separation and Purification Technology</i> , 2018 , 195, 388-397	8.3	13
275	Advances, challenges and opportunities for point-of-need screening of mycotoxins in foods and feeds. <i>Analyst, The</i> , 2018 , 143, 1015-1035	5	22
274	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	7.2	26
273	Capillary-driven microfluidic device with integrated nanoporous microbeads for ultrarapid biosensing assays. <i>Sensors and Actuators B: Chemical</i> , 2018 , 265, 452-458	8.5	17
272	Multiplexed capillary microfluidic immunoassay with smartphone data acquisition for parallel mycotoxin detection. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 40-46	11.8	43
271	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	8.5	18
270	Top-Down Fabricated Silicon Nanowire Arrays for Field-Effect Detection of Prostate-Specific Antigen. <i>ACS Omega</i> , 2018 , 3, 8471-8482	3.9	24

269	Development of a Point-of-Care Platform for Plant Health Assessment: A Microfluidic Approach. <i>Proceedings (mdpi)</i> , 2018 , 2, 819	0.3	0
268	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	2	6
267	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	3.5	11
266	The application of microbeads to microfluidic systems for enhanced detection and purification of biomolecules. <i>Methods</i> , 2017 , 116, 112-124	4.6	35
265	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	4.5	14
264	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	4.5	11
263	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	4.5	15
262	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	11.8	33
261	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	4	9
260	Miniaturization of aqueous two-phase extraction for biological applications: From micro-tubes to microchannels. <i>Biotechnology Journal</i> , 2016 , 11, 1498-1512	5.6	21
259	Lab-on-chip systems for integrated bioanalyses. <i>Essays in Biochemistry</i> , 2016 , 60, 121-31	7.6	22
258	High-Throughput Nanoliter-Scale Analysis and Optimization of Multimodal Chromatography for the Capture of Monoclonal Antibodies. <i>Analytical Chemistry</i> , 2016 , 88, 7959-67	7.8	24
257	DNA aptamer-based sandwich microfluidic assays for dual quantification and multi-glycan profiling of cancer biomarkers. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 313-9	11.8	51
256	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	5.1	31
255	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	3.9	2
254	Dynamics of hydrogenated amorphous silicon flexural resonators for enhanced performance. <i>Journal of Applied Physics</i> , 2016 , 119, 154501	2.5	5
253	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		2
252	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		5

251	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
250	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	8.5	26
249	Study on the bio-functionalization of memristive nanowires for optimum memristive biosensors. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2153-2162	7.3	16
248	Bio-functionalization study of Memristive-Biosensors for early detection of prostate cancer 2015 ,		4
247	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	8.3	39
246	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	2	4
245	A microfluidic immunoassay platform for the detection of free prostate specific antigen: a systematic and quantitative approach. <i>Analyst, The</i> , 2015 , 140, 4423-33	5	18
244	Surface plasmon resonance application in prostate cancer biomarker research. <i>Chemical Papers</i> , 2015 , 69,	1.9	14
243	Effect of plasma treatment on the performance of two drug-loaded hydrogel formulations for therapeutic contact lenses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1059-68	3.5	13
242	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	5.5	5
241	Pressure effects on the dissipative behavior of nanocrystalline diamond microelectromechanical resonators. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 025019	2	2
240	Integrated fluorescence detection of labeled biomolecules using a prism-like PDMS microfluidic chip and lateral light excitation. <i>Lab on A Chip</i> , 2014 , 14, 1991-5	7.2	12
239	Tunable Properties of Hydrogenated Amorphous/Nanocrystalline Silicon Thin-Films for Enhanced MEMS Resonators Performance. <i>Journal of Microelectromechanical Systems</i> , 2014 , 23, 600-609	2.5	8
238	Determination of aqueous two phase system binodal curves using a microfluidic device. <i>Journal of Chromatography A</i> , 2014 , 1370, 115-20	4.5	31
237	An ASIC for readout of post-processed thin-film MEMS resonators by employing capacitive interfacing and active parasitic cancellation 2014 ,		2
236	An amorphous silicon photodiode microfluidic chip to detect nanomolar quantities of HIV-1 virion infectivity factor. <i>Analyst, The</i> , 2014 , 139, 3709-13	5	13
235	Modulation of alpha-synuclein toxicity in yeast using a novel microfluidic-based gradient generator. <i>Lab on A Chip</i> , 2014 , 14, 3949-57	7.2	25
234	Aqueous two-phase systems for enhancing immunoassay sensitivity: simultaneous concentration of mycotoxins and neutralization of matrix interference. <i>Journal of Chromatography A</i> , 2014 , 1361, 67-76	4.5	20

233	On-chip sample preparation and analyte quantification using a microfluidic aqueous two-phase extraction coupled with an immunoassay. <i>Lab on A Chip</i> , 2014 , 14, 4284-94	7.2	48
232	Integrated optical detection of autonomous capillary microfluidic immunoassays: a hand-held point-of-care prototype. <i>Biosensors and Bioelectronics</i> , 2014 , 57, 284-91	11.8	39
231	Low Temperature Sub-micron Gap Thin-film Silicon Resonators on Glass Substrate. <i>Procedia Engineering</i> , 2014 , 87, 1418-1421		
230	Optically transparent diamond/PDMS microfluidic system for electronic monitoring of cells. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2593-2598	1.3	7
229	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		
228	Microfluidic ELISA for sensing of prostate cancer biomarkers using integrated a-Si:H p-i-n photodiodes 2014 ,		2
227	Monitoring intracellular calcium in response to GPCR activation using thin-film silicon photodiodes with integrated fluorescence filters. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 232-8	11.8	8
226	Streaming currents in microfluidics with integrated polarizable electrodes. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 361-376	2.8	7
225	The effect of the surface functionalization and the electrolyte concentration on the electrical conductance of silica nanochannels. <i>Biomicrofluidics</i> , 2013 , 7, 34111	3.2	20
224	Detection of ochratoxin A in wine and beer by chemiluminescence-based ELISA in microfluidics with integrated photodiodes. <i>Sensors and Actuators B: Chemical</i> , 2013 , 176, 232-240	8.5	66
223	Control of sequential fluid delivery in a fully autonomous capillary microfluidic device. <i>Lab on A Chip</i> , 2013 , 13, 641-5	7.2	53
222	Mechanical properties of polymer/carbon nanotube composite micro-electromechanical systems bridges. <i>Journal of Applied Physics</i> , 2013 , 113, 134508	2.5	2
221	Microstructure factor and mechanical and electronic properties of hydrogenated amorphous and nanocrystalline silicon thin-films for microelectromechanical systems applications. <i>Journal of Applied Physics</i> , 2013 , 114, 184905	2.5	19
220	Transient streaming current measurements in nanochannels for molecular detection. <i>Applied Physics Letters</i> , 2013 , 103, 253112	3.4	4
219	Study of the out-of-plane vibrational modes in thin-film amorphous silicon micromechanical disk resonators. <i>Journal of Applied Physics</i> , 2013 , 113, 174904	2.5	7
218	Metabolic viability of Escherichia coli trapped by dielectrophoresis in microfluidics. <i>Electrophoresis</i> , 2013 , 34, 575-82	3.6	17
217	Integrated On-chip Photodetection of Intracellular Calcium in Response to the Activation of G-protein Coupled Receptors. <i>Procedia Engineering</i> , 2012 , 47, 993-996		
216	Multi-modal Analysis of Out-of-plane Vibration Modes of Thin-film Circular Resonators for Mass Sensing Applications. <i>Procedia Engineering</i> , 2012 , 47, 1121-1124		1

215	Lab-on-Chip Prototype Platform for Ochratoxin A Detection in Wine and Beer. <i>Procedia Engineering</i> , 2012 , 47, 550-553		5
214	High-throughput study of alpha-synuclein expression in yeast using microfluidics for control of local cellular microenvironment. <i>Biomicrofluidics</i> , 2012 , 6, 14109-141099	3.2	9
213	Integrated detection of intrinsic fluorophores in live microbial cells using an array of thin film amorphous silicon photodetectors. <i>Biosensors and Bioelectronics</i> , 2012 , 36, 242-9	11.8	7
212	Design of a microfluidic platform for monoclonal antibody extraction using an aqueous two-phase system. <i>Journal of Chromatography A</i> , 2012 , 1249, 1-7	4.5	43
211	Towards the miniaturization of GPCR-based live-cell screening assays. <i>Trends in Biotechnology</i> , 2012 , 30, 566-74	15.1	24
210	Derivation of the near-surface dielectric function of amorphous silicon from photoelectron loss spectra. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2019-2022	3.9	6
209	Streaming current measurements in micro and nanofluidic channels for label-free multiplexed genomics diagnostics 2012 ,		1
208	Pressure effects on the dynamic properties of hydrogenated amorphous silicon disk resonators. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 085026	2	2
207	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. <i>Journal of Applied Physics</i> , 2012 , 112, 024906	2.5	15
206	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		5
205	Hydrogenated Amorphous Silicon Thin-Film Disk Resonators. <i>Procedia Engineering</i> , 2011 , 25, 1525-1528		
204	Integration of Carbon Nanotubes into Electrostatically Actuated all-Polymer PEDOT: PSS/PMMA MEMS. <i>Procedia Engineering</i> , 2011 , 25, 1665-1668		3
203	Electrical detection of DNA immobilization and hybridization by streaming current measurements in microchannels. <i>Applied Physics Letters</i> , 2011 , 99, 183702	3.4	8
202	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, 4063-71	7.2	58
201	Submicron thin-film amorphous silicon photoconductive light sensors. <i>Sensors and Actuators A: Physical</i> , 2011 , 170, 32-35	3.9	4
200	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	8.5	11
199	Microelectromechanical resonators based on an all polymer/carbon nanotube composite structural material. <i>Applied Physics Letters</i> , 2011 , 99, 044104	3.4	11
198	Heterogeneous immunoassays in microfluidic format using fluorescence detection with integrated amorphous silicon photodiodes. <i>Biomicrofluidics</i> , 2011 , 5, 14102	3.2	22

197	Thin film amorphous silicon bulk-mode disk resonators fabricated on glass substrates. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1299, 1		2
196	Amorphous Silicon Photosensors for Detection of Intrinsic Cell Fluorophores. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1321, 435		1
195	Reliability and stability of thin-film amorphous silicon MEMS on glass substrates. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1299, 1		
194	Reply to Comment on Current routes in hydrogenated microcrystalline silicon. <i>Physical Review B</i> , 2010 , 81,	3.3	2
193	Mechanical properties of thin silicon films deposited at low temperatures by PECVD. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 035022	2	16
192	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	3.9	18
191	Patterned functionalization layer for sub- μ DNA solid-phase immobilization and hybridization. <i>Sensors and Actuators B: Chemical</i> , 2010 , 149, 432-438	8.5	2
190	Detection of fluorescently labeled biomolecules immobilized on a detachable substrate using an integrated amorphous silicon photodetector. <i>Applied Physics Letters</i> , 2009 , 94, 164106	3.4	9
189	Thermal grafting of fluorinated molecular monolayers on doped amorphous silicon surfaces. <i>Journal of Applied Physics</i> , 2009 , 105, 064914	2.5	3
188	Chemiluminescent Detection of Horseradish Peroxidase Using an Integrated Amorphous Silicon Thin-Film Photosensor. <i>IEEE Sensors Journal</i> , 2009 , 9, 1282-1290	4	17
187	Comparison of amorphous silicon photodiodes and photoconductors for detection of quantum dot biomolecular tags. <i>Journal of Applied Physics</i> , 2009 , 106, 104904	2.5	6
186	The effect of the shape of single, sub-ms voltage pulses on the rates of surface immobilization and hybridization of DNA. <i>Nanotechnology</i> , 2009 , 20, 015503	3.4	4
185	Comparison of the mechanical and resonance properties of thin film silicon MEMS fabricated at 110 and 250 $^{\circ}$ C. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 025018	2	10
184	Enzymatic Biosensors with Integrated Thin Film a-Si:H Photodiodes. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1153, 1		
183	Miniaturization of Immunoassays Using Optical Detection with Integrated Amorphous Silicon Photodiodes. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1191, 66		
182	Thin Film Amorphous Silicon Nanoscale Photodetectors. <i>Procedia Chemistry</i> , 2009 , 1, 433-436		1
181	Mass Sensing using an Amorphous Silicon MEMS resonator. <i>Procedia Chemistry</i> , 2009 , 1, 1063-1066		4
180	Ionic Conductivity Measurements in a SiO ₂ Nanochannel with PDMS Interconnects. <i>Procedia Chemistry</i> , 2009 , 1, 1095-1098		2

179	Microscopic and macroscopic manifestations of percolation transitions in a semiconductor composite. <i>Physical Review B</i> , 2009 , 80,	3.3	10
178	On-chip magnetoresistive detection of resonance in microcantilevers. <i>Applied Physics Letters</i> , 2009 , 95, 023502	3.4	14
177	Detection of molecular tags with an integrated amorphous silicon photodetector for biological applications. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2594-2597	3.9	10
176	Amorphous Silicon Thin-Film Transistors Gated Through an Electrolyte Solution. <i>IEEE Electron Device Letters</i> , 2008 , 29, 1030-1033	4.4	3
175	Electrical and Chemical Control of Surfaces for DNA Immobilization and Hybridization. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1093, 42301		
174	Fluorescence detection of DNA using an amorphous silicon p-i-n photodiode. <i>Journal of Applied Physics</i> , 2008 , 104, 054913	2.5	15
173	Electric Field Assisted DNA Surface Reactions on the Sub-ms Timescale. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1092, 10501		
172	Fluorescence Detection of DNA Hybridization Using an Integrated Thin-Film Amorphous Silicon n-i-p Photodiode. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1066, 1		
171	Mechanical Properties and Reliability of Amorphous vs. Polycrystalline Silicon Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1066, 1		4
170	Hybrid magnetoresistive microelectromechanical devices for static field modulation and sensor 1/f noise cancellation. <i>Journal of Applied Physics</i> , 2008 , 103, 07E924	2.5	38
169	Performance of thin film silicon MEMS on flexible plastic substrates. <i>Sensors and Actuators A: Physical</i> , 2008 , 144, 201-206	3.9	21
168	Colorimetric detection of molecular recognition reactions with an enzyme biolabel using a thin-film amorphous silicon photodiode on a glass substrate. <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 102-107	8.5	10
167	Detection of DNA and proteins using amorphous silicon ion-sensitive thin-film field effect transistors. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 545-51	11.8	71
166	Hybrid Magnetic Tunnel Junction-MEMS High Frequency Field Modulator for 1/f Noise Suppression. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2554-2557	2	21
165	pH sensitive photoconductor based on poly(para-phenylene-vinylene). <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 153-157	8.5	13
164	Noise Characteristics and Particle Detection Limits in Diode+\$MTJ Matrix Elements for Biochip Applications. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2403-2405	2	13
163	Performance of Thin Film Silicon MEMS on Flexible Plastic Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 989, 2		1
162	Electrostatically actuated bilayer polyimide-based microresonators. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 797-803	2	13

161	Surface micromachining of a thin film microresonator using dry decomposition of a polymer sacrificial layer. <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 455		5
160	Flexural and torsional vibration modes in low temperature thin-film silicon paddle microresonators. <i>Applied Physics Letters</i> , 2007 , 90, 233502	3.4	1
159	Detection of Chemiluminescence Using an Amorphous Silicon Photodiode. <i>IEEE Sensors Journal</i> , 2007 , 7, 415-416	4	27
158	Resonance of electrostatically actuated thin-film amorphous silicon microelectromechanical systems microresonators in aqueous solutions: Effect of solution conductivity and viscosity. <i>Journal of Applied Physics</i> , 2007 , 101, 094308	2.5	7
157	Conductive Blended Polymer MEMS Microresonators. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 329-335	2.5	6
156	On-Chip Detection of Chemiluminescent Biomolecules using an Integrated Thin Film Silicon Photodiode. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1004, 1		
155	Nanotechnology and the Detection of Biomolecular Recognition Using Magnetoresistive Transducers 2007 , 3-22		
154	Electrostatically actuated conducting polymer microbridges. <i>Journal of Applied Physics</i> , 2007 , 101, 064507	5	9
153	a-Si:H Electrolyte-Gate Thin Film Devices for Biological Applications. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 926, 1		
152	Performance of Thin-film a-Si:H Microresonators in Dissipative Media. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 910, 2		
151	Diode/magnetic tunnel junction cell for fully scalable matrix-based biochip. <i>Journal of Applied Physics</i> , 2006 , 99, 08B307	2.5	27
150	Thin film silicon MEMS microresonators fabricated by hot-wire chemical vapor deposition. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 2730-2735	2	5
149	Electrostatically actuated resonance of amorphous silicon microresonators in water. <i>Applied Physics Letters</i> , 2006 , 89, 143109	3.4	16
148	Micromechanical properties of amorphous, nanocrystalline and transition phase hot-wire thin-silicon MEMS. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1234-1237	3.9	
147	Label-free electronic detection of biomolecules using a-Si:H field-effect devices. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 2007-2010	3.9	10
146	Thin-film silicon MEMS DNA sensors. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1999-2003	3.9	10
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