Joao P Conde

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252
papers

3,612
citations

45
g-index

47
ext. papers

4,039
ext. citations

4.4
avg, IF

L-index

#	Paper	IF	Citations
252	Simple procedure for generating sequences of daily radiation values using a library of Markov transition matrices. <i>Solar Energy</i> , 1988 , 40, 269-279	6.8	190
251	Amorphous and microcrystalline silicon films grown at low temperatures by radio-frequency and hot-wire chemical vapor deposition. <i>Journal of Applied Physics</i> , 1999 , 86, 3812-3821	2.5	122
250	An on-chip thin film photodetector for the quantification of DNA probes and targets in microarrays. <i>Nucleic Acids Research</i> , 2004 , 32, e70	20.1	72
249	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
248	Optoelectronic and structural properties of amorphous siliconflarbon alloys deposited by low-power electron-cyclotron resonance plasma-enhanced chemical-vapor deposition. <i>Journal of Applied Physics</i> , 1999 , 85, 3327-3338	2.5	71
247	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
246	Current routes in hydrogenated microcrystalline silicon. <i>Physical Review B</i> , 2005 , 71,	3.3	65
245	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
244	Amorphous and microcrystalline silicon films deposited by hot-wire chemical vapor deposition at filament temperatures between 1500 and 1900 LC. <i>Journal of Applied Physics</i> , 1996 , 79, 8748-8760	2.5	54
243	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
242	Transport and photoluminescence of hydrogenated amorphous silicondarbon alloys. <i>Journal of Applied Physics</i> , 1995 , 78, 3164-3173	2.5	53
241	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
240	Amorphous silicon electrostatic microresonators with high quality factors. <i>Applied Physics Letters</i> , 2004 , 84, 622-624	3.4	49
239	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
238	Direct measurement of Urbach tail and gap state absorption in CuGaSe2 thin films by photothermal deflection spectroscopy and the constant photocurrent method. <i>Journal of Applied Physics</i> , 2002 , 92, 3016-3020	2.5	47
237	Optoelectronic properties of hydrogenated amorphous silicon films deposited under negative substrate bias. <i>Journal of Applied Physics</i> , 1991 , 69, 2942-2950	2.5	44
236	Multiplexed capillary microfluidic immunoassay with smartphone data acquisition for parallel mycotoxin detection. <i>Biosensors and Bioelectronics</i> , 2018 , 99, 40-46	11.8	43

235	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	
234	Spin dependent tunnel junctions for memory and read-head applications. <i>IEEE Transactions on Magnetics</i> , 2000 , 36, 2796-2801	2	43	
233	Electrostatic actuation of thin-film microelectromechanical structures. <i>Journal of Applied Physics</i> , 2003 , 93, 10018-10029	2.5	41	
232	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	
231	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	
230	Hybrid magnetoresistivehicroelectromechanical devices for static field modulation and sensor 1fl noise cancellation. <i>Journal of Applied Physics</i> , 2008 , 103, 07E924	2.5	38	
229	Amorphous silicon air-gap resonators on large-area substrates. <i>Applied Physics Letters</i> , 2000 , 77, 907-90)93.4	36	
228	The application of microbeads to microfluidic systems for enhanced detection and purification of biomolecules. <i>Methods</i> , 2017 , 116, 112-124	4.6	35	
227	Immobilization and hybridization by single sub-millisecond electric field pulses, for pixel-addressed DNA microarrays. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 1591-7	11.8	35	
226	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	
225	Electric-field assisted immobilization and hybridization of DNA oligomers on thin-film microchips. <i>Nanotechnology</i> , 2005 , 16, 2061-71	3.4	32	
224	Doping of amorphous and microcrystalline silicon films deposited at low substrate temperatures by hot-wire chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001 , 19, 2328-2334	2.9	32	
223	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	
222	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	
221	Diode/magnetic tunnel junction cell for fully scalable matrix-based biochip. <i>Journal of Applied Physics</i> , 2006 , 99, 08B307	2.5	27	
220	Detection of Chemiluminescence Using an Amorphous Silicon Photodiode. <i>IEEE Sensors Journal</i> , 2007 , 7, 415-416	4	27	
219	Electronic and structural properties of doped amorphous and nanocrystalline silicon deposited at low substrate temperatures by radio-frequency plasma-enhanced chemical vapor deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 1048-1054	2.9	27	
218	Nanotechnology is an important strategy for combinational innovative chemo-immunotherapies against colorectal cancer. <i>Journal of Controlled Release</i> , 2019 , 307, 108-138	11.7	26	

217	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
216	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
215	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
214	Improved mobility of amorphous silicon thin-film transistors deposited by hot-wire chemical vapor deposition on glass substrates. <i>Applied Physics Letters</i> , 1997 , 70, 2714-2716	3.4	25
213	Electrostatically actuated thin-film amorphous silicon microbridge resonators. <i>Journal of Applied Physics</i> , 2005 , 97, 094501	2.5	25
212	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
211	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
210	Towards the miniaturization of GPCR-based live-cell screening assays. <i>Trends in Biotechnology</i> , 2012 , 30, 566-74	15.1	24
209	Electrostatically actuated polymer microresonators. <i>Applied Physics Letters</i> , 2005 , 87, 104104	3.4	24
208	Piezoresistive sensors on plastic substrates using doped microcrystalline silicon. <i>IEEE Sensors Journal</i> , 2002 , 2, 336-341	4	24
207	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
206	Photocurrent collection in a Schottky barrier on an amorphous silicon-germanium alloy structure with 1.23 eV optical gap. <i>Applied Physics Letters</i> , 1989 , 55, 262-264	3.4	23
205	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
204	Lab-on-chip systems for integrated bioanalyses. <i>Essays in Biochemistry</i> , 2016 , 60, 121-31	7.6	22
203	Heterogeneous immunoassays in microfluidic format using fluorescence detection with integrated amorphous silicon photodiodes. <i>Biomicrofluidics</i> , 2011 , 5, 14102	3.2	22
202	Photoluminescence and sub band gap absorption of CuGaSe2 thin films. <i>Thin Solid Films</i> , 2002 , 403-404, 495-499	2.2	22
201	Air-gap amorphous silicon thin film transistors. <i>Applied Physics Letters</i> , 1998 , 73, 502-504	3.4	22
200	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

199	Performance of thin film silicon MEMS on flexible plastic substrates. <i>Sensors and Actuators A: Physical</i> , 2008 , 144, 201-206	3.9	21
198	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
197	Amorphous and microcrystalline silicon deposited by hot-wire chemical vapor deposition at low substrate temperatures: application to devices and thin-film microelectromechanical systems. <i>Thin Solid Films</i> , 2001 , 395, 105-111	2.2	21
196	Steady state and transient transport in a-Si, Ge : H, F alloys. <i>Journal of Non-Crystalline Solids</i> , 1987 , 97-98, 1023-1026	3.9	21
195	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
194	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
193	Electric-field-pulse-assisted covalent immobilization of DNA in the nanosecond time scale. <i>Applied Physics Letters</i> , 2003 , 83, 1465-1467	3.4	20
192	Thermal actuation of thin film microelectromechanical structures. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 1224-1228	3.9	20
191	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
190	Amorphous and microcrystalline silicon films obtained by hot-wire chemical vapour deposition using high filament temperatures between 1900 and 2500°C. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997 , 76, 299-308	3	19
189	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
188	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
187	Characterisation of hydrogenated siliconBarbon 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
186	Single base mismatch detection by microsecond voltage pulses. <i>Biosensors and Bioelectronics</i> , 2005 , 21, 888-93	11.8	18
185	Low substrate temperature deposition of amorphous and microcrystalline silicon films on plastic substrates by hot-wire chemical vapor deposition. <i>Journal of Non-Crystalline Solids</i> , 2000 , 266-269, 110-	13:2	18
184	Low filament temperature deposition of a-Si:H by hot-wire chemical vapor deposition. <i>Journal of Applied Physics</i> , 1995 , 78, 3776-3783	2.5	18
183	The optoelectronic properties of a-Si, Ge:H(F) alloys. <i>Journal of Non-Crystalline Solids</i> , 1989 , 114, 453-45	58 .9	18
182	Porphyrinquinone excited state interactions in reversed micelles. <i>Journal of Photochemistry and Photobiology</i> , 1985 , 28, 153-164		18

181	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
180	Metabolic viability of Escherichia coli trapped by dielectrophoresis in microfluidics. <i>Electrophoresis</i> , 2013 , 34, 575-82	3.6	17
179	Chemiluminescent Detection of Horseradish Peroxidase Using an Integrated Amorphous Silicon Thin-Film Photosensor. <i>IEEE Sensors Journal</i> , 2009 , 9, 1282-1290	4	17
178	Electrostatic microresonators from doped hydrogenated amorphous and nanocrystalline silicon thin films. <i>Journal of Microelectromechanical Systems</i> , 2005 , 14, 1082-1088	2.5	17
177	Electronic transport in microcrystalline silicon controlled by trapping and intra-grain mobility. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 365-369	3.9	17
176	Vertical integration of a spin dependent tunnel junction with an amorphous Si diode for MRAM application. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 2832-2834	2	17
175	Mechanical properties of thin silicon films deposited at low temperatures by PECVD. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 035022	2	16
174	Electrostatically actuated resonance of amorphous silicon microresonators in water. <i>Applied Physics Letters</i> , 2006 , 89, 143109	3.4	16
173	Vertical integration of a spin dependent tunnel junction with an amorphous Si diode. <i>Applied Physics Letters</i> , 1999 , 74, 3893-3895	3.4	16
172	Study on the bio-functionalization of memristive nanowires for optimum memristive biosensors. Journal of Materials Chemistry B, 2016 , 4, 2153-2162	7-3	16
171	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
170	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
169	Fluorescence detection of DNA using an amorphous silicon p-i-n photodiode. <i>Journal of Applied Physics</i> , 2008 , 104, 054913	2.5	15
168	Properties of amorphous silicon/amorphous silicon-germanium multilayers. <i>Journal of Applied Physics</i> , 1994 , 75, 1638-1655	2.5	15
167	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
166	Surface plasmon resonance application in prostate cancer biomarker research. <i>Chemical Papers</i> , 2015 , 69,	1.9	14
165	On-chip magnetoresistive detection of resonance in microcantilevers. <i>Applied Physics Letters</i> , 2009 , 95, 023502	3.4	14
164	Observation of field-effect in a cross-linked polyfluorene semiconductor. <i>Chemical Physics Letters</i> , 2008 , 455, 189-191	2.5	14

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163	Photoluminescence intensity and anisotropy decays in amorphous carbon. <i>Chemical Physics Letters</i> , 2000 , 319, 113-118	2.5	14
162	Deposition of amorphous silicon using a tubular reactor with concentric-electrode confinement. <i>Journal of Applied Physics</i> , 1992 , 71, 3981-3989	2.5	14
161	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
160	Studies on the purification of antibody fragments. <i>Separation and Purification Technology</i> , 2018 , 195, 388-397	8.3	13
159	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
158	pH sensitive photoconductor based on poly(para-phenylene-vinylene). <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 153-157	8.5	13
157	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
156	Electrostatically actuated bilayer polyimide-based microresonators. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 797-803	2	13
155	Hot-wire thin-film transistors on PET at 100 LC. Thin Solid Films, 2003, 430, 240-244	2.2	13
154	Integrated magnetic sensing of electrostatically actuated thin-film microbridges. <i>Journal of Microelectromechanical Systems</i> , 2003 , 12, 550-556	2.5	13
153	Microelectromechanical system microbridge deflection monitoring using integrated spin valve sensors and micromagnets. <i>Journal of Applied Physics</i> , 2002 , 91, 7774	2.5	13
152	Thin film micro arrays with immobilized DNA for hybridization analysis. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 723, 231		13
151	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
150	. IEEE Electron Device Letters, 1992 , 13, 5-7	4.4	12
149	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
148	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
147	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, 662-66	7 ^{8.5}	11
146	Microelectromechanical resonators based on an all polymer/carbon nanotube composite structural material. <i>Applied Physics Letters</i> , 2011 , 99, 044104	3.4	11

145	Properties of high growth rate amorphous silicon deposited by MC-RF-PECVD. Vacuum, 2002, 64, 245-2	4 8 7	11
144	Comparison of the mechanical and resonance properties of thin film silicon MEMS fabricated at 110 and 250 LC. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 025018	2	10
143	Microscopic and macroscopic manifestations of percolation transitions in a semiconductor composite. <i>Physical Review B</i> , 2009 , 80,	3.3	10
142	Amorphous and Microcrystalline Silicon Deposited by Low-Power Electron-Cyclotron Resonance Plasma-Enhanced Chemical-Vapor Deposition. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 38-49	1.4	10
141	Wide band gap a-SiC:H films for optoelectronic applications. <i>Journal of Non-Crystalline Solids</i> , 1998 , 227-230, 465-469	3.9	10
140	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
139	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, 102-1	0 ⁸ 7 ⁵	10
138	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
137	Thin-film silicon MEMS DNA sensors. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1999-2003	3.9	10
136	Low-temperature thin-film silicon MEMS. <i>Thin Solid Films</i> , 2003 , 427, 181-186	2.2	10
136	Low-temperature thin-film silicon MEMS. <i>Thin Solid Films</i> , 2003 , 427, 181-186 Determination of the D 0/llevel in amorphous Si,Ge:H(F) by time-of-flight charge collection. <i>Applied Physics Letters</i> , 1988 , 53, 1542-1544	2.2	10
	Determination of the D 0/Ilevel in amorphous Si,Ge:H(F) by time-of-flight charge collection.		
135	Determination of the D 0/Ilevel in amorphous Si,Ge:H(F) by time-of-flight charge collection. Applied Physics Letters, 1988, 53, 1542-1544 Microfluidic bioreactors for enzymatic synthesis in packed-bed reactors-Multi-step reactions and	3.4	10
135 134	Determination of the D 0/Ilevel in amorphous Si,Ge:H(F) by time-of-flight charge collection. Applied Physics Letters, 1988, 53, 1542-1544 Microfluidic bioreactors for enzymatic synthesis in packed-bed reactors-Multi-step reactions and upscaling. Journal of Biotechnology, 2020, 323, 24-32 Label-Free Detection of Biomolecules in Microfluidic Systems Using On-Chip UV and Impedimetric	3.4	10
135 134 133	Determination of the D 0/Ilevel in amorphous Si,Ge:H(F) by time-of-flight charge collection. Applied Physics Letters, 1988, 53, 1542-1544 Microfluidic bioreactors for enzymatic synthesis in packed-bed reactors-Multi-step reactions and upscaling. Journal of Biotechnology, 2020, 323, 24-32 Label-Free Detection of Biomolecules in Microfluidic Systems Using On-Chip UV and Impedimetric Sensors. IEEE Sensors Journal, 2019, 19, 7803-7812 Microfluidic device for the point of need detection of a pathogen infection biomarker in grapes.	3·4 3·7	10 10 9
135 134 133	Determination of the D 0/llevel in amorphous Si,Ge:H(F) by time-of-flight charge collection. Applied Physics Letters, 1988, 53, 1542-1544 Microfluidic bioreactors for enzymatic synthesis in packed-bed reactors-Multi-step reactions and upscaling. Journal of Biotechnology, 2020, 323, 24-32 Label-Free Detection of Biomolecules in Microfluidic Systems Using On-Chip UV and Impedimetric Sensors. IEEE Sensors Journal, 2019, 19, 7803-7812 Microfluidic device for the point of need detection of a pathogen infection biomarker in grapes. Analyst, The, 2019, 144, 4871-4879 Performance of Hydrogenated Amorphous Silicon Thin Film Photosensors at Ultra-Low Light Levels: Towards Attomole Sensitivities in Lab-on-Chip Biosensing Applications. IEEE Sensors Journal,	3·4 3·7 4	10 10 9
135 134 133 132	Determination of the D 0/Ilevel in amorphous Si,Ge:H(F) by time-of-flight charge collection. Applied Physics Letters, 1988, 53, 1542-1544 Microfluidic bioreactors for enzymatic synthesis in packed-bed reactors-Multi-step reactions and upscaling. Journal of Biotechnology, 2020, 323, 24-32 Label-Free Detection of Biomolecules in Microfluidic Systems Using On-Chip UV and Impedimetric Sensors. IEEE Sensors Journal, 2019, 19, 7803-7812 Microfluidic device for the point of need detection of a pathogen infection biomarker in grapes. Analyst, The, 2019, 144, 4871-4879 Performance of Hydrogenated Amorphous Silicon Thin Film Photosensors at Ultra-Low Light Levels: Towards Attomole Sensitivities in Lab-on-Chip Biosensing Applications. IEEE Sensors Journal, 2017, 1-1 High-throughput study of alpha-synuclein expression in yeast using microfluidics for control of	3·4 3·7 4 5	10 10 9 9 9

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127	substrate temperatures on plastic substrates. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 2261		9	
126	Carrier transport mechanisms in a-Si:H,F/a-Si,Ge:H,F superlattices. <i>Journal of Non-Crystalline Solids</i> , 1987 , 97-98, 939-942	3.9	9	
125	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, 328-33	6 ^{8.5}	8	
124	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	
123	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	
122	Electrical detection of DNA immobilization and hybridization by streaming current measurements in microchannels. <i>Applied Physics Letters</i> , 2011 , 99, 183702	3.4	8	
121	Electronic transport in low-temperature silicon nitride. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 434-438	3.9	8	
120	Optically transparent diamond P DMS microfluidic system for electronic monitoring of cells. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2593-2598	1.3	7	
119	Streaming currents in microfluidics with integrated polarizable electrodes. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 361-376	2.8	7	
118	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	
117	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	
116	Photoluminescence of polymer-like amorphous carbon films grown in different plasma reactors. Journal of Non-Crystalline Solids, 1998 , 227-230, 574-578	3.9	7	
115	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	
114	The effect of the flow of silane on the properties of a-Si:H deposited by concentric-electrode radio frequency glow-discharge. <i>Journal of Applied Physics</i> , 1992 , 71, 3990-3996	2.5	7	
113	Microfluidic device for multiplexed detection of fungal infection biomarkers in grape cultivars. <i>Analyst, The</i> , 2021 , 145, 7973-7984	5	7	
112	Aptamer-based approaches to detect nucleolin in prostate cancer. <i>Talanta</i> , 2021 , 226, 122037	6.2	7	
111	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	
110	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	

109	Conductive Blended Polymer MEMS Microresonators. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 329-335	2.5	6
108	Electromechanical properties of amorphous and microcrystalline silicon micromachined structures. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 664, 2641		6
107	The Effect of Hydrogen Dilution on Hot-Wire Thin-Film Transistors. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 507, 909		6
106	Annealing kinetics of a-Si:H deposited by concentric-electrode rf glow discharge at room temperature. <i>Journal of Applied Physics</i> , 1993 , 73, 1826-1831	2.5	6
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