

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	Simple procedure for generating sequences of daily radiation values using a library of Markov transition matrices. <i>Solar Energy</i> , 1988, 40, 269-279.	2.9	218
2	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.	1.1	131
3	Detection of DNA and proteins using amorphous silicon ion-sensitive thin-film field effect transistors. <i>Biosensors and Bioelectronics</i> , 2008, 24, 545-551.	5.3	83
4	An on-chip thin film photodetector for the quantification of DNA probes and targets in microarrays. <i>Nucleic Acids Research</i> , 2004, 32, e70-e70.	6.5	81
5	Optoelectronic and structural properties of amorphous silicon-carbon alloys deposited by low-power electron-cyclotron resonance plasma-enhanced chemical-vapor deposition. <i>Journal of Applied Physics</i> , 1999, 85, 3327-3338.	1.1	78
6	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.	4.0	74
7	Current routes in hydrogenated microcrystalline silicon. <i>Physical Review B</i> , 2005, 71, .	1.1	66
8	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
9	Control of sequential fluid delivery in a fully autonomous capillary microfluidic device. <i>Lab on A Chip</i> , 2013, 13, 641-645.	3.1	63
10	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
11	Multiplexed capillary microfluidic immunoassay with smartphone data acquisition for parallel mycotoxin detection. <i>Biosensors and Bioelectronics</i> , 2018, 99, 40-46.	5.3	59
12	Amorphous and microcrystalline silicon films deposited by hot-wire chemical vapor deposition at filament temperatures between 1500 and 1900°C. <i>Journal of Applied Physics</i> , 1996, 79, 8748-8760.	1.1	58
13	Transport and photoluminescence of hydrogenated amorphous silicon-carbon alloys. <i>Journal of Applied Physics</i> , 1995, 78, 3164-3173.	1.1	56
14	Direct measurement of Urbach tail and gap state absorption in CuGaSe ₂ thin films by photothermal deflection spectroscopy and the constant photocurrent method. <i>Journal of Applied Physics</i> , 2002, 92, 3016-3020.	1.1	55
15	Amorphous silicon electrostatic microresonators with high quality factors. <i>Applied Physics Letters</i> , 2004, 84, 622-624.	1.5	54
16	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.	1.8	54
17	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, 4284-4294.	3.1	50
18	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

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19	Spin dependent tunnel junctions for memory and read-head applications. IEEE Transactions on Magnetism, 2000, 36, 2796-2801.	1.2	48
20	Electrostatic actuation of thin-film microelectromechanical structures. Journal of Applied Physics, 2003, 93, 10018-10029.	1.1	47
21	Optoelectronic properties of hydrogenated amorphous silicon films deposited under negative substrate bias. Journal of Applied Physics, 1991, 69, 2942-2950.	1.1	46
22	Optimization and miniaturization of aqueous two phase systems for the purification of recombinant human immunodeficiency virus-like particles from a CHO cell supernatant. Separation and Purification Technology, 2015, 154, 27-35.	3.9	46
23	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
24	The application of microbeads to microfluidic systems for enhanced detection and purification of biomolecules. Methods, 2017, 116, 112-124.	1.9	45
25	Hybrid magnetoresistive microelectromechanical devices for static field modulation and sensor noise cancellation. Journal of Applied Physics, 2008, 103, .	1.1	43
26	A Novel Microfluidic Cell Co-culture Platform for the Study of the Molecular Mechanisms of Parkinson's Disease and Other Synucleinopathies. Frontiers in Neuroscience, 2016, 10, 511.	1.4	43
27	A point-of-use microfluidic device with integrated photodetector array for immunoassay multiplexing: Detection of a panel of mycotoxins in multiple samples. Biosensors and Bioelectronics, 2017, 87, 823-831.	5.3	42
28	Immobilization and hybridization by single sub-millisecond electric field pulses, for pixel-addressed DNA microarrays. Biosensors and Bioelectronics, 2004, 19, 1591-1597.	5.3	41
29	Amorphous silicon air-gap resonators on large-area substrates. Applied Physics Letters, 2000, 77, 907-909.	1.5	39
30	Determination of aqueous two phase system binodal curves using a microfluidic device. Journal of Chromatography A, 2014, 1370, 115-120.	1.8	38
31	Multiplexed microfluidic fluorescence immunoassay with photodiode array signal acquisition for sub-minute and point-of-need detection of mycotoxins. Lab on A Chip, 2018, 18, 1569-1580.	3.1	37
32	Electric-field assisted immobilization and hybridization of DNA oligomers on thin-film microchips. Nanotechnology, 2005, 16, 2061-2071.	1.3	36
33	Doping of amorphous and microcrystalline silicon films deposited at low substrate temperatures by hot-wire chemical vapor deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 2328-2334.	0.9	33
34	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
35	Advances, challenges and opportunities for point-of-need screening of mycotoxins in foods and feeds. Analyst, The, 2018, 143, 1015-1035.	1.7	33
36	Silica bead-based microfluidic device with integrated photodiodes for the rapid capture and detection of rolling circle amplification products in the femtomolar range. Biosensors and Bioelectronics, 2019, 128, 68-75.	5.3	33

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37	Lab-on-chip systems for integrated bioanalyses. <i>Essays in Biochemistry</i> , 2016, 60, 121-131.	2.1	32
38	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
39	Detection of Chemiluminescence Using an Amorphous Silicon Photodiode. <i>IEEE Sensors Journal</i> , 2007, 7, 415-416.	2.4	31
40	Towards the miniaturization of GPCR-based live-cell screening assays. <i>Trends in Biotechnology</i> , 2012, 30, 566-574.	4.9	31
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	Electronic and structural properties of doped amorphous and nanocrystalline silicon deposited at low substrate temperatures by radio-frequency plasma-enhanced chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003, 21, 1048-1054.	0.9	30
43	Electrostatically actuated thin-film amorphous silicon microbridge resonators. <i>Journal of Applied Physics</i> , 2005, 97, 094501.	1.1	30
44	Diode/magnetic tunnel junction cell for fully scalable matrix-based biochip. <i>Journal of Applied Physics</i> , 2006, 99, 08B307.	1.1	30
45	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
46	Electrostatically actuated polymer microresonators. <i>Applied Physics Letters</i> , 2005, 87, 104104.	1.5	27
47	Performance of thin film silicon MEMS on flexible plastic substrates. <i>Sensors and Actuators A: Physical</i> , 2008, 144, 201-206.	2.0	27
48	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.	1.5	25
49	Air-gap amorphous silicon thin film transistors. <i>Applied Physics Letters</i> , 1998, 73, 502-504.	1.5	25
50	Piezoresistive sensors on plastic substrates using doped microcrystalline silicon. <i>IEEE Sensors Journal</i> , 2002, 2, 336-341.	2.4	25
51	Hybrid Magnetic Tunnel Junction-MEMS High Frequency Field Modulator for 1/f Noise Suppression. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2554-2557.	1.2	25
52	Steady state and transient transport in a-Si, Ge : H, F alloys. <i>Journal of Non-Crystalline Solids</i> , 1987, 97-98, 1023-1026.	1.5	24
53	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.	1.5	24
54	The effect of the surface functionalization and the electrolyte concentration on the electrical conductance of silica nanochannels. <i>Biomicrofluidics</i> , 2013, 7, 34111.	1.2	24

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55	Photoluminescence and sub band gap absorption of CuGaSe ₂ thin films. <i>Thin Solid Films</i> , 2002, 403-404, 495-499.	0.8	23
56	Chemiluminescent Detection of Horseradish Peroxidase Using an Integrated Amorphous Silicon Thin-Film Photosensor. <i>IEEE Sensors Journal</i> , 2009, 9, 1282-1290.	2.4	23
57	Heterogeneous immunoassays in microfluidic format using fluorescence detection with integrated amorphous silicon photodiodes. <i>Biomicrofluidics</i> , 2011, 5, 14102.	1.2	23
58	Miniaturization of aqueous two-phase extraction for biological applications: From microtubes to microchannels. <i>Biotechnology Journal</i> , 2016, 11, 1498-1512.	1.8	23
59	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
60	Amorphous silicon-germanium thin-film photodetector array. <i>IEEE Electron Device Letters</i> , 1992, 13, 5-7.	2.2	22
61	Low filament temperature deposition of a-Si:H by hot-wire chemical vapor deposition. <i>Journal of Applied Physics</i> , 1995, 78, 3776-3783.	1.1	22
62	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.	0.8	22
63	Thermal actuation of thin film microelectromechanical structures. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 1224-1228.	1.5	22
64	Electric-field-pulse-assisted covalent immobilization of DNA in the nanosecond time scale. <i>Applied Physics Letters</i> , 2003, 83, 1465-1467.	1.5	22
65	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
66	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
67	Porphyry ⁺ quinone excited state interactions in reversed micelles. <i>Journal of Photochemistry and Photobiology</i> , 1985, 28, 153-164.	0.6	21
68	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
69	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
70	The optoelectronic properties of a-Si, Ge:H(F) alloys. <i>Journal of Non-Crystalline Solids</i> , 1989, 114, 453-458.	1.5	20
71	Electronic transport in microcrystalline silicon controlled by trapping and intra-grain mobility. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 365-369.	1.5	20
72	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

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73	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
74	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
75	Amorphous and microcrystalline silicon films obtained by hot-wire chemical vapour deposition using high filament temperatures between 1900 and 2500Å°C. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1997, 76, 299-308.	0.6	19
76	Vertical integration of a spin dependent tunnel junction with an amorphous Si diode for MRAM application. IEEE Transactions on Magnetics, 1999, 35, 2832-2834.	1.2	19
77	Single base mismatch detection by microsecond voltage pulses. Biosensors and Bioelectronics, 2005, 21, 888-893.	5.3	19
78	Study on the bio-functionalization of memristive nanowires for optimum memristive biosensors. Journal of Materials Chemistry B, 2016, 4, 2153-2162.	2.9	19
79	Determination of partition coefficients of biomolecules in a microfluidic aqueous two phase system platform using fluorescence microscopy. Journal of Chromatography A, 2017, 1487, 242-247.	1.8	19
80	Studies on the purification of antibody fragments. Separation and Purification Technology, 2018, 195, 388-397.	3.9	19
81	A Fast Alternative to Soft Lithography for the Fabrication of Organâ€onâ€â€Chip Elastomericâ€Based Devices and Microactuators. Advanced Science, 2021, 8, 2003273.	5.6	19
82	Properties of amorphous silicon/amorphous siliconâ€germanium multilayers. Journal of Applied Physics, 1994, 75, 1638-1655.	1.1	18
83	Vertical integration of a spin dependent tunnel junction with an amorphous Si diode. Applied Physics Letters, 1999, 74, 3893-3895.	1.5	18
84	Low substrate temperature deposition of amorphous and microcrystalline silicon films on plastic substrates by hot-wire chemical vapor deposition. Journal of Non-Crystalline Solids, 2000, 266-269, 110-114.	1.5	18
85	Electrostatic microresonators from doped hydrogenated amorphous and nanocrystalline silicon thin films. Journal of Microelectromechanical Systems, 2005, 14, 1082-1088.	1.7	18
86	Metabolic viability of <i>Escherichia coli</i> trapped by dielectrophoresis in microfluidics. Electrophoresis, 2013, 34, 575-582.	1.3	18
87	Surface plasmon resonance application in prostate cancer biomarker research. Chemical Papers, 2015, 69, .	1.0	18
88	Electrostatically actuated resonance of amorphous silicon microresonators in water. Applied Physics Letters, 2006, 89, 143109.	1.5	17
89	Fluorescence detection of DNA using an amorphous silicon p-i-n photodiode. Journal of Applied Physics, 2008, 104, 054913.	1.1	17
90	A multiplexed microfluidic toolbox for the rapid optimization of affinity-driven partition in aqueous two phase systems. Journal of Chromatography A, 2017, 1515, 252-259.	1.8	17

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91	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
92	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
93	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
94	Recent developments in microreactor technology for biocatalysis applications. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 815-827.	1.9	17
95	Photoluminescence intensity and anisotropy decays in amorphous carbon. <i>Chemical Physics Letters</i> , 2000, 319, 113-118.	1.2	16
96	Thin film micro arrays with immobilized DNA for hybridization analysis. <i>Materials Research Society Symposia Proceedings</i> , 2002, 723, 231.	0.1	16
97	Integrated magnetic sensing of electrostatically actuated thin-film microbridges. <i>Journal of Microelectromechanical Systems</i> , 2003, 12, 550-556.	1.7	16
98	pH sensitive photoconductor based on poly(para-phenylene-vinylene). <i>Sensors and Actuators B: Chemical</i> , 2007, 123, 153-157.	4.0	16
99	On-chip magnetoresistive detection of resonance in microcantilevers. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	16
100	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.	1.1	16
101	Aptamer-based approaches to detect nucleolin in prostate cancer. <i>Talanta</i> , 2021, 226, 122037.	2.9	16
102	Deposition of amorphous silicon using a tubular reactor with concentric-electrode confinement. <i>Journal of Applied Physics</i> , 1992, 71, 3981-3989.	1.1	15
103	Noise Characteristics and Particle Detection Limits in Diode+\$MTJ\$ Matrix Elements for Biochip Applications. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2403-2405.	1.2	15
104	Observation of field-effect in a cross-linked polyfluorene semiconductor. <i>Chemical Physics Letters</i> , 2008, 455, 189-191.	1.2	15
105	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.	3.1	15
106	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
107	Microfluidic device for the point of need detection of a pathogen infection biomarker in grapes. <i>Analyst</i> , The, 2019, 144, 4871-4879.	1.7	15
108	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.	0.8	14

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109	Hot-wire thin-film transistors on PET at 100 Å°C. Thin Solid Films, 2003, 430, 240-244.	0.8	14
110	Low-temperature thin-film silicon MEMS. Thin Solid Films, 2003, 427, 181-186.	0.8	14
111	Electrostatically actuated bilayer polyimide-based microresonators. Journal of Micromechanics and Microengineering, 2007, 17, 797-803.	1.5	14
112	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
113	Integration of thin film amorphous silicon photodetector with lab-on-chip for monitoring protein fluorescence in solution and in live microbial cells. Sensors and Actuators B: Chemical, 2011, 156, 662-667.	4.0	14
114	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
115	Microfluidic bioreactors for enzymatic synthesis in packed-bed reactorsâ€”Multi-step reactions and upscaling. Journal of Biotechnology, 2020, 323, 24-32.	1.9	14
116	Micropathological Chip Modeling the Neurovascular Unit Response to Inflammatory Bone Condition. Advanced Healthcare Materials, 2022, 11, e2102305.	3.9	14
117	Wide band gap a-SiC:H films for optoelectronic applications. Journal of Non-Crystalline Solids, 1998, 227-230, 465-469.	1.5	13
118	Microelectromechanical system microbridge deflection monitoring using integrated spin valve sensors and micromagnets. Journal of Applied Physics, 2002, 91, 7774.	1.1	13
119	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
120	Label-Free Detection of Biomolecules in Microfluidic Systems Using On-Chip UV and Impedimetric Sensors. IEEE Sensors Journal, 2019, 19, 7803-7812.	2.4	13
121	Microfluidic device for multiplexed detection of fungal infection biomarkers in grape cultivars. Analyst, The, 2020, 145, 7973-7984.	1.7	13
122	Properties of high growth rate amorphous silicon deposited by MC-RF-PECVD. Vacuum, 2002, 64, 245-248.	1.6	12
123	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
124	Microelectromechanical resonators based on an all polymer/carbon nanotube composite structural material. Applied Physics Letters, 2011, 99, 044104.	1.5	12
125	Label-free electronic detection of biomolecules using a-Si:H field-effect devices. Journal of Non-Crystalline Solids, 2006, 352, 2007-2010.	1.5	11
126	Thin-film silicon MEMS DNA sensors. Journal of Non-Crystalline Solids, 2006, 352, 1999-2003.	1.5	11

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127	Electrostatically actuated conducting polymer microbridges. Journal of Applied Physics, 2007, 101, 064507.	1.1	11
128	High-throughput study of alpha-synuclein expression in yeast using microfluidics for control of local cellular microenvironment. Biomicrofluidics, 2012, 6, 014109.	1.2	11
129	Optical biosensing in microfluidics using nanoporous microbeads and amorphous silicon thin-film photodiodes: quantitative analysis of molecular recognition and signal transduction. Journal of Micromechanics and Microengineering, 2018, 28, 094004.	1.5	11
130	Carrier transport mechanisms in a-Si:H,F/a-Si,Ge:H,F superlattices. Journal of Non-Crystalline Solids, 1987, 97-98, 939-942.	1.5	10
131	Determination of the D ⁰ level in amorphous Si,Ge:H(F) by time-of-flight charge collection. Applied Physics Letters, 1988, 53, 1542-1544.	1.5	10
132	Carrier lifetime in amorphous semiconductors. Journal of Applied Physics, 1994, 75, 7349-7355.	1.1	10
133	Doping of amorphous and microcrystalline silicon films by hot-wire CVD and RFPECVD at low substrate temperatures on plastic substrates. Materials Research Society Symposia Proceedings, 2000, 609, 2261.	0.1	10
134	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
135	Microscopic and macroscopic manifestations of percolation transitions in a semiconductor composite. Physical Review B, 2009, 80, .	1.1	10
136	Electrical detection of DNA immobilization and hybridization by streaming current measurements in microchannels. Applied Physics Letters, 2011, 99, 183702.	1.5	10
137	Monitoring intracellular calcium in response to GPCR activation using thin-film silicon photodiodes with integrated fluorescence filters. Biosensors and Bioelectronics, 2014, 52, 232-238.	5.3	10
138	The effect of the flow of silane on the properties of a-Si:H deposited by concentric electrode radio frequency glow discharge. Journal of Applied Physics, 1992, 71, 3990-3996.	1.1	9
139	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
140	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
141	Label-Free Biosensing of DNA in Microfluidics using Amorphous Silicon Capacitive Micro-Cantilevers. IEEE Sensors Journal, 2020, , 1-1.	2.4	9
142	Photoluminescence of polymer-like amorphous carbon films grown in different plasma reactors. Journal of Non-Crystalline Solids, 1998, 227-230, 574-578.	1.5	8
143	Electronic transport in low-temperature silicon nitride. Journal of Non-Crystalline Solids, 2002, 299-302, 434-438.	1.5	8
144	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

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145	Conductive Blended Polymer MEMS Microresonators. Journal of Microelectromechanical Systems, 2007, 16, 329-335.	1.7	8
146	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
147	Streaming currents in microfluidics with integrated polarizable electrodes. Microfluidics and Nanofluidics, 2013, 15, 361-376.	1.0	8
148	The Effect of Hydrogen Dilution on Hot-Wire Thin-Film Transistors. Materials Research Society Symposia Proceedings, 1998, 507, 909.	0.1	7
149	Comparison of amorphous silicon photodiodes and photoconductors for detection of quantum dot biomolecular tags. Journal of Applied Physics, 2009, 106, .	1.1	7
150	Optically transparent diamond/PDMS microfluidic system for electronic monitoring of cells. Physica Status Solidi (B): Basic Research, 2014, 251, 2593-2598.	0.7	7
151	Dynamics of hydrogenated amorphous silicon flexural resonators for enhanced performance. Journal of Applied Physics, 2016, 119, .	1.1	7
152	Amorphous Silicon Self-Rolling Micro Electromechanical Systems: From Residual Stress Control to Complex 3D Structures. Advanced Engineering Materials, 2019, 21, 1900663.	1.6	7
153	Optimizing the Performance of Chromatographic Separations Using Microfluidics: Multiplexed and Quantitative Screening of Ligands and Target Molecules. Biotechnology Journal, 2019, 14, e1800593.	1.8	7
154	Microfluidic platform for rapid screening of bacterial cell lysis. Journal of Chromatography A, 2020, 1610, 460539.	1.8	7
155	A Versatile and Fully Integrated Hand-Held Device for Microfluidic-Based Biosensing: A Case Study of Plant Health Biomarkers. IEEE Sensors Journal, 2020, 20, 14007-14015.	2.4	7
156	Fabrication and characterization of thin-film silicon resonators on 10 μ -thick polyimide substrates. Journal of Micromechanics and Microengineering, 2020, 30, 045007.	1.5	7
157	Microchromatography integrated with impedance sensor for bioprocess optimization: Experimental and numerical study of column efficiency for evaluation of scalability. Journal of Chromatography A, 2022, 1661, 462678.	1.8	7
158	Pre-miRNA-149 G-quadruplex as a molecular agent to capture nucleolin. European Journal of Pharmaceutical Sciences, 2022, 169, 106093.	1.9	7
159	Monolithically integrated optical interference and absorption filters on thin film amorphous silicon photosensors for biological detection. Sensors and Actuators B: Chemical, 2022, 356, 131330.	4.0	7
160	Femtosecond spectroscopy in amorphous silicon and silicon-germanium alloys. Journal of Non-Crystalline Solids, 1987, 97-98, 145-148.	1.5	6
161	Response time measurements in microcrystalline silicon. Journal of Non-Crystalline Solids, 1993, 164-166, 477-480.	1.5	6
162	Annealing kinetics of a-Si:H deposited by concentric electrode rf glow discharge at room temperature. Journal of Applied Physics, 1993, 73, 1826-1831.	1.1	6

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163	Electromechanical properties of amorphous and microcrystalline silicon micromachined structures. Materials Research Society Symposia Proceedings, 2001, 664, 2641.	0.1	6
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