

Giampiero de Cesare

List of Publications by Year in descending order

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220
papers

2,117
citations

201674

27
h-index

361022

35
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229
all docs

229
docs citations

229
times ranked

1478
citing authors

#	ARTICLE	IF	CITATIONS
1	Maximum power point tracker for portable photovoltaic systems with resistive-like load. Solar Energy, 2006, 80, 982-988.	6.1	60
2	Solar-blind UV photodetectors for large area applications. IEEE Transactions on Electron Devices, 1996, 43, 1351-1356.	3.0	53
3	17% efficiency heterostructure solar cell based on p-type crystalline silicon. Journal of Non-Crystalline Solids, 2004, 338-340, 663-667.	3.1	50
4	Hydrogenated amorphous silicon ultraviolet sensor for deoxyribonucleic acid analysis. Applied Physics Letters, 2006, 88, 083904.	3.3	48
5	Aptamer-based sandwich assay for on chip detection of Ochratoxin A by an array of amorphous silicon photosensors. Sensors and Actuators B: Chemical, 2016, 230, 31-39.	7.8	48
6	Amorphous Si/SiC three-color detector with adjustable threshold. Applied Physics Letters, 1995, 66, 1178-1180.	3.3	47
7	Chemiluminescence lateral flow immunoassay cartridge with integrated amorphous silicon photosensors array for human serum albumin detection in urine samples. Analytical and Bioanalytical Chemistry, 2016, 408, 8869-8879.	3.7	46
8	Comparison of amorphous/crystalline heterojunction solar cells based on n- and p-type crystalline silicon. Thin Solid Films, 2004, 451-452, 355-360.	1.8	38
9	Microfluidic Chip With Integrated a-Si:H Photodiodes for Chemiluminescence-Based Bioassays. IEEE Sensors Journal, 2013, 13, 2595-2602.	4.7	38
10	On-chip detection of multiple serum antibodies against epitopes of celiac disease by an array of amorphous silicon sensors. RSC Advances, 2014, 4, 2073-2080.	3.6	38
11	Multifunctional System-on-Glass for Lab-on-Chip applications. Biosensors and Bioelectronics, 2017, 93, 315-321.	10.1	38
12	Tunable photodetectors based on amorphous Si/SiC heterostructures. IEEE Transactions on Electron Devices, 1995, 42, 835-840.	3.0	37
13	Multiwell cartridge with integrated array of amorphous silicon photosensors for chemiluminescence detection: development, characterization and comparison with cooled-CCD luminograph. Analytical and Bioanalytical Chemistry, 2014, 406, 5645-5656.	3.7	34
14	Anisotropy of Porous Anodization of Aluminum for VLSI Technology. Journal of the Electrochemical Society, 1994, 141, 2556-2559.	2.9	33
15	Electrical Properties of ITO/Crystalline-Silicon Contact at Different Deposition Temperatures. IEEE Electron Device Letters, 2012, 33, 327-329.	3.9	33
16	Lab-on-chip system combining a microfluidic-ELISA with an array of amorphous silicon photosensors for the detection of celiac disease epitopes. Sensing and Bio-Sensing Research, 2015, 6, 51-58.	4.2	33
17	Advances, challenges and opportunities for point-of-need screening of mycotoxins in foods and feeds. Analyst, The, 2018, 143, 1015-1035.	3.5	33
18	Amorphous Silicon p-i-n Structure Acting as Light and Temperature Sensor. Sensors, 2015, 15, 12260-12272.	3.8	32

#	ARTICLE	IF	CITATIONS
19	Amorphous silicon/silicon carbide photodiodes with excellent sensitivity and selectivity in the vacuum ultraviolet spectrum. <i>Applied Physics Letters</i> , 1995, 67, 335-337.	3.3	31
20	Polydimethylsiloxane material as hydrophobic and insulating layer in electrowetting-on-dielectric systems. <i>Microelectronics Journal</i> , 2014, 45, 1684-1690.	2.0	31
21	Integrated chemiluminescence-based lab-on-chip for detection of life markers in extraterrestrial environments. <i>Biosensors and Bioelectronics</i> , 2019, 123, 195-203.	10.1	31
22	Structural, optical and electronic properties of wide band gap amorphous carbon-silicon alloys. <i>Diamond and Related Materials</i> , 1993, 2, 773-777.	3.9	29
23	Detailed Study of Amorphous Silicon Ultraviolet Sensor With Chromium Silicide Window Layer. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 452-456.	3.0	29
24	Amorphous Silicon Photosensors for Detection of Ochratoxin a in Wine. <i>IEEE Sensors Journal</i> , 2012, 12, 2674-2679.	4.7	29
25	A novel a-Si:H mechanical stress sensor. <i>Thin Solid Films</i> , 2003, 427, 191-195.	1.8	28
26	Monitoring of Temperature Distribution in a Thin Film Heater by an Array of a-Si:H Temperature Sensors. <i>IEEE Sensors Journal</i> , 2012, 12, 1209-1213.	4.7	28
27	Characterization of intrinsic a-Si:H in p-i-n devices by capacitance measurements: Theory and experiments. <i>Journal of Applied Physics</i> , 1994, 76, 3534-3541.	2.5	27
28	Spectral tuned amorphous silicon p-i-n for DNA detection. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2004-2006.	3.1	27
29	Smart thin layer chromatography plate. <i>Lab on A Chip</i> , 2007, 7, 978.	6.0	27
30	Design and experimental characterization of thin film heaters on glass substrate for Lab-on-Chip applications. <i>Sensors and Actuators A: Physical</i> , 2015, 229, 203-210.	4.1	26
31	1E 1740.7-2942: Temporal and spectral evolution from INTEGRAL and RXTE observations. <i>Astronomy and Astrophysics</i> , 2005, 433, 613-617.	5.1	26
32	Amorphous Silicon Sensors for Single and Multicolor Detection of Biomolecules. <i>IEEE Sensors Journal</i> , 2007, 7, 1274-1280.	4.7	25
33	Lab-on-Glass System for DNA Analysis using Thin and Thick Film Technologies. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1191, 48.	0.1	24
34	Infrared photodetection at room temperature using photocapacitance in amorphous silicon structures. <i>Applied Physics Letters</i> , 1998, 72, 1229-1231.	3.3	23
35	Characterization of chromium silicide thin layer formed on amorphous silicon films. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2171-2175.	3.1	23
36	On the electrical properties of polycrystalline diamond films on silicon. <i>Diamond and Related Materials</i> , 1995, 4, 628-631.	3.9	22

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37	Back contacted a-Si:H/c-Si heterostructure solar cells. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2386-2391.	3.1	22
38	Integrated Evanescent Waveguide Detector for Optical Sensing. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018, 8, 1180-1186.	2.5	22
39	On-chip LAMP-BART reaction for viral DNA real-time bioluminescence detection. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 1024-1033.	7.8	21
40	Design and fabrication of microfluidics system integrated with temperature actuated microvalve. <i>Sensors and Actuators A: Physical</i> , 2015, 236, 206-213.	4.1	20
41	Fluorescent Label-Free Aptasensor Integrated in a Lab-on-Chip System for the Detection of Ochratoxin A in Beer and Wheat. <i>ACS Applied Bio Materials</i> , 2019, 2, 5880-5887.	4.6	20
42	a-Si:H temperature sensor integrated in a thin film heater. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 708-711.	1.8	19
43	a-Si:H/a-SiC:H Heterostructure for Bias-Controlled Photodetectors. <i>Materials Research Society Symposia Proceedings</i> , 1994, 336, 885.	0.1	18
44	On-Glass Integrated SU-8 Waveguide and Amorphous Silicon Photosensor for On-Chip Detection of Biomolecules: Feasibility Study on Hemoglobin Sensing. <i>Sensors</i> , 2021, 21, 415.	3.8	18
45	A systematic investigation of the role of material parameters in metastability of hydrogenated amorphous silicon. <i>Journal of Non-Crystalline Solids</i> , 1994, 170, 278-286.	3.1	17
46	New a-Si:H two-terminal switching device for active display. <i>Journal of Non-Crystalline Solids</i> , 1996, 198-200, 1134-1136.	3.1	16
47	An Approach to the Extreme Miniaturization of Rotary Comb Drives. <i>Actuators</i> , 2018, 7, 70.	2.3	16
48	Amorphous silicon photosensors integrated in microfluidic structures as a technological demonstrator of a "Lab-on-Chip" system. <i>Sensing and Bio-Sensing Research</i> , 2015, 3, 98-104.	4.2	15
49	Improving the stability of amorphous silicon ultraviolet sensors. <i>Thin Solid Films</i> , 2007, 515, 7517-7521.	1.8	14
50	Back contact formation for p-type based a-Si:H/c-Si heterojunction solar cells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 932-935.	0.8	14
51	Integrated Optoelectronic Device for Detection of Fluorescent Molecules. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 1337-1344.	4.0	14
52	On-chip real-time monitoring of multiple displacement amplification of DNA. <i>Sensors and Actuators B: Chemical</i> , 2019, 293, 16-22.	7.8	14
53	Compliant Nano-Pliers as a Biomedical Tool at the Nanoscale: Design, Simulation and Fabrication. <i>Micromachines</i> , 2020, 11, 1087.	2.9	14
54	Back enhanced H ₂ heterostructure with n ⁺ Si ₃ N ₄ terdigitated contact "BEHIND" - solar cell. , 2008, , .		13

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55	Hydrogen Plasma and Thermal Annealing Treatments on a-Si:H Thin Film for c-Si Surface Passivation. Energy Procedia, 2014, 60, 102-108.	1.8	13
56	Design, realization and characterization of mesa insulated a-Si bulk barrier phototransistor. Journal of Non-Crystalline Solids, 1993, 164-166, 805-808.	3.1	12
57	Crystallization of amorphous silicon carbide thin films by laser treatment. Surface and Coatings Technology, 1996, 80, 237-241.	4.8	12
58	Technologies for autonomous integrated lab-on-chip systems for space missions. Acta Astronautica, 2016, 128, 401-408.	3.2	12
59	An Interdisciplinary Approach to the Nanomanipulation of SiO ₂ Nanoparticles: Design, Fabrication and Feasibility. Applied Sciences (Switzerland), 2018, 8, 2645.	2.5	12
60	Thermal control system based on thin film heaters and amorphous silicon diodes. , 2015, , .		11
61	An All-Glass Microfluidic Network with Integrated Amorphous Silicon Photosensors for on-Chip Monitoring of Enzymatic Biochemical Assay. Biosensors, 2017, 7, 58.	4.7	11
62	Integrated Sensor System for DNA Amplification and Separation Based on Thin Film Technology. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1141-1148.	2.5	11
63	Adjustable Threshold a-Si/SiC:H Color Detectors. Materials Research Society Symposia Proceedings, 1995, 377, 785.	0.1	10
64	Metastability effect in solar blind UV amorphous silicon carbide photodetector. Journal of Non-Crystalline Solids, 1998, 227-230, 1316-1320.	3.1	10
65	Two-Color Sensor for Biomolecule Detection. Sensor Letters, 2008, 6, 542-547.	0.4	10
66	Amorphous silicon UV photodetectors with rejection of the visible spectrum. Journal of Non-Crystalline Solids, 1996, 198-200, 1198-1201.	3.1	9
67	Modeling and realization of a high-gain homojunction a-Si:H bulk barrier phototransistor. IEEE Transactions on Electron Devices, 1996, 43, 1077-1084.	3.0	9
68	A switching device based on a-Si:H n-i ⁺ p-i-n stacked structure: modeling and characterization. IEEE Transactions on Electron Devices, 1996, 43, 2109-2112.	3.0	9
69	Investigation of amorphous silicon compensated materials over a wide range of dopant concentrations. Thin Solid Films, 1997, 303, 269-272.	1.8	9
70	Bragg reflector and laser fired back contact in a-Si:H/c-Si heterostructure solar cell. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 159-160, 48-52.	3.5	9
71	Built-in Enhancement in a-Si:H Solar Cell by Chromium Silicide Layer. IEEE Electron Device Letters, 2010, 31, 689-691.	3.9	9
72	Early detection of ochratoxigenic fungi in wine grapes and of ochratoxin A in wine. Annals of Microbiology, 2011, 61, 11-15.	2.6	9

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73	Evanescent waveguide lab-on-chip for optical biosensing in food quality control. <i>Photonics Research</i> , 2022, 10, 1453.	7.0	9
74	Current induced degradation in boron-doped hydrogenated amorphous silicon: A novel investigation technique. <i>Journal of Applied Physics</i> , 1995, 77, 1133-1136.	2.5	8
75	Variable spectral response photodetector based on crystalline/amorphous silicon heterostructure. <i>Journal of Non-Crystalline Solids</i> , 1996, 198-200, 1189-1192.	3.1	8
76	Activation of dopant in the p-layer of amorphous silicon solar cells under illumination. <i>Solar Energy Materials and Solar Cells</i> , 1996, 43, 263-272.	6.2	8
77	Crystallization of silicon carbide thin films by pulsed laser irradiation. <i>Applied Surface Science</i> , 1996, 106, 193-197.	6.1	8
78	a-Si:H alloy for stress sensor application. <i>Journal of Non-Crystalline Solids</i> , 2004, 338-340, 725-728.	3.1	8
79	Amorphous silicon balanced photodiode for detection of ultraviolet radiation. <i>Sensors and Actuators A: Physical</i> , 2009, 153, 1-4.	4.1	8
80	Contact Formation on a-Si:H/c-Si Heterostructure Solar Cells. <i>Engineering Materials</i> , 2012, , 331-375.	0.6	8
81	Electrowetting-on-dielectric system based on polydimethylsiloxane. , 2013, , .		8
82	Development of a NEMS-Technology Based Nano Gripper. <i>Mechanisms and Machine Science</i> , 2018, , 601-611.	0.5	8
83	Two dimensional image sensors based on amorphous silicon alloy p-i-n diodes. <i>Journal of Non-Crystalline Solids</i> , 1993, 164-166, 789-792.	3.1	7
84	Interaction of phosphorus and boron in compensated amorphous silicon films. <i>Journal of Non-Crystalline Solids</i> , 1998, 227-230, 380-384.	3.1	7
85	On the relation between defect density and dopant concentration in amorphous silicon films. <i>Journal of Non-Crystalline Solids</i> , 2000, 266-269, 565-568.	3.1	7
86	Characterisation and modelling of a two terminal visible/infrared photodetector based on amorphous/crystalline silicon heterostructure. <i>Sensors and Actuators A: Physical</i> , 2001, 88, 139-145.	4.1	7
87	Innovative design of amorphous/crystalline silicon heterojunction solar cell. <i>Thin Solid Films</i> , 2008, 516, 6771-6774.	1.8	7
88	Thermal characterization of a thin film heater on glass substrate for lab-on-chip applications. , 2014, , .		7
89	Amorphous silicon photosensors for on-chip detection in digital microfluidic system. <i>Sensors and Actuators A: Physical</i> , 2014, 216, 1-6.	4.1	7
90	On-chip detection performed by amorphous silicon balanced photosensor for lab-on chip application. <i>Sensing and Bio-Sensing Research</i> , 2015, 3, 53-58.	4.2	7

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91	Optoelectronic System for Mycotoxin Detection in Food Quality Control. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1195-1202.	2.5	7
92	On the Stability of Amorphous Silicon Temperature Sensors. IEEE Transactions on Electron Devices, 2020, 67, 3348-3354.	3.0	7
93	Amorphous silicon switching device for high-resolution two-color photodetector matrix. Sensors and Actuators A: Physical, 1999, 78, 108-113.	4.1	6
94	Integrated 3D Microfluidic Device for Impedance Spectroscopy in Lab-on-Chip Systems. , 2019, , .		6
95	Selective contacts and fill factor limitations in heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2021, 29, 876-884.	8.1	6
96	Bias Controlled Amorphous Si/SiC:H Photodetectors. Solid State Phenomena, 1995, 44-46, 943-956.	0.3	5
97	Innovative window layer for amorphous silicon/amorphous silicon carbide UV sensor. Journal of Non-Crystalline Solids, 2006, 352, 1818-1821.	3.1	5
98	Chromatography system based on amorphous silicon sensor. Journal of Non-Crystalline Solids, 2008, 354, 2615-2618.	3.1	5
99	Modeling of the photo-response of a smart thin layer chromatography system. , 2011, , .		5
100	Transparent Oxide/Metal/Oxide Thin Film Heater With Integrated Resistive Temperature Sensors. IEEE Sensors Journal, 2021, 21, 18847-18854.	4.7	5
101	Linear Photosensor Array for On-Chip Food Quality Control Based on Thin Layer Chromatography. Sensor Letters, 2010, 8, 465-469.	0.4	5
102	Split Aptamers Immobilized on Polymer Brushes Integrated in a Lab-on-Chip System Based on an Array of Amorphous Silicon Photosensors: A Novel Sensor Assay. Materials, 2021, 14, 7210.	2.9	5
103	Downsizing Effects on Micro and Nano Comb Drives. Actuators, 2022, 11, 71.	2.3	5
104	Effect of deep-trap level on transverse acoustoelectric voltage measurements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1991, 38, 503-509.	3.0	4
105	Amorphous silicon thin film as tuneable and high sensitive photodetector in the UV and far UV spectral range. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 387, 243-245.	1.6	4
106	Amorphous silicon junction field-effect transistor for digital and analog applications. Applied Physics Letters, 2000, 77, 1390-1392.	3.3	4
107	DEMOCHEM: Integrated System for Mycotoxins Detection. Procedia Engineering, 2014, 87, 1354-1357.	1.2	4
108	Thermal characterization of thin film heater for lab-on-chip application. , 2015, , .		4

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109	A new NEMS Based Linear-to-Rotary Displacement-Capacity Transducer. , 2019, , .		4
110	Chemiluminescence-Based Micro-Total-Analysis System with Amorphous Silicon Photodiodes. Lecture Notes in Electrical Engineering, 2014, , 207-211.	0.4	4
111	Sophie: A General Purpose Sub-Picoamps Current Readout Electronics. Lecture Notes in Electrical Engineering, 2015, , 285-289.	0.4	4
112	Effect of SAW frequency on transverse acoustoelectric voltage measurements. , 0, , .		3
113	An equivalent circuit model for transverse acoustoelectric voltage measurements in semiconductors. Solid-State Electronics, 1990, 33, 1005-1012.	1.4	3
114	Fabrication of Photoluminescent Amorphous Pillar Silicon Structures. Materials Research Society Symposia Proceedings, 1994, 358, 93.	0.1	3
115	On the Compensation Mechanism of Amorphous Silicon Films: Study of Stability. Materials Research Society Symposia Proceedings, 1997, 467, 91.	0.1	3
116	Thin-film photodetectors for the vacuum ultraviolet spectral region. Applied Optics, 1997, 36, 2751.	2.1	3
117	Amorphous silicon p ⁺ -i ⁿ on p crystalline silicon photodetector in the visible and near infrared spectrum. Journal of Non-Crystalline Solids, 2000, 266-269, 1218-1222.	3.1	3
118	Experimental realization of field effect a-Si:H solar cells. Thin Solid Films, 2003, 427, 166-170.	1.8	3
119	Innovative Amorphous Silicon Balanced Ultraviolet Photodiode. IEEE Electron Device Letters, 2008, 29, 1299-1301.	3.9	3
120	Surface photovoltage as a tool to monitor the effect of hydrogen treatment on a-Si:H/c-Si heterojunction. , 2013, , .		3
121	Multi-channel Very-low-noise Current Acquisition System with On-board Voltage Supply for Sensor Biasing and Readout. Procedia Engineering, 2014, 87, 1577-1580.	1.2	3
122	Thermally actuated microfluidic system for lab on chip applications. , 2015, , .		3
123	2-D digital microfluidic system for droplet handling using Printed Circuit Board technology. , 2015, , .		3
124	Thin Film Differential Photosensor for Reduction of Temperature Effects in Lab-on-Chip Applications. Sensors, 2016, 16, 267.	3.8	3
125	Integration of Capillary and EWOD Technologies for Autonomous and Low-power Consumption Micro-analytical Systems. Procedia Engineering, 2016, 168, 1370-1373.	1.2	3
126	Microfluidic cartridge with integrated array of amorphous silicon photosensors for chemiluminescence detection of viral DNA. Sensing and Bio-Sensing Research, 2016, 7, 127-132.	4.2	3

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127	New measurement structure for TAV testing of semiconductor: an experimental analysis. , 0, , .		2
128	On the Role of the Staebler-Wronski Susceptibility in Hydrogenated Amorphous Silicon. Materials Research Society Symposia Proceedings, 1993, 297, 583.	0.1	2
129	Anisotropy of Aluminum Porous Anodization Process for Vlsi Planar Metallization. Materials Research Society Symposia Proceedings, 1994, 337, 651.	0.1	2
130	Modeling and realization of an amorphous silicon device with negative differential resistance. IEEE Transactions on Electron Devices, 1998, 45, 270-276.	3.0	2
131	Amorphous silicon sensors for oxidised porous silicon optical waveguides buried in silicon wafers. Journal of Non-Crystalline Solids, 1998, 227-230, 1354-1358.	3.1	2
132	Experimental evidence of boron induced charged defects in amorphous silicon materials. Thin Solid Films, 1999, 348, 79-83.	1.8	2
133	Low pinch-off voltage amorphous silicon junction field-effect transistor: experiment and simulation. IEEE Transactions on Electron Devices, 2003, 50, 1559-1561.	3.0	2
134	Innovative Optoelectronic Approaches to Biomolecular Analysis with Arrays of Silicon Devices. , 2006, , .		2
135	On the fabrication and characterization of amorphous silicon ultra-violet sensor array. Thin Solid Films, 2009, 517, 6422-6425.	1.8	2
136	Amorphous silicon twin photodiode structure for differential current measurements. Thin Solid Films, 2009, 517, 6418-6421.	1.8	2
137	High dynamic range current-to-digital readout electronics for lab-on-chip applications. , 2011, , .		2
138	Detection of viral DNA by isothermal NASBA amplification and chemiluminescence gene probe hybridization assay in a microfluidic cartridge. Journal of Clinical Virology, 2015, 70, S91-S92.	3.1	2
139	Rapid prototyping of glass microfluidic chips based on autonomous capillary networks for physiological solutions. , 2015, , .		2
140	Portable detection system for Ochratoxin A by real time chromatography and a-Si:H photodiodes. , 2017, , .		2
141	Temperature effects on sputtered ITO. , 2018, , .		2
142	Equivalent Electrical Model of a-Si:H Diodes for Lab-on-Chip Technology. , 2019, , .		2
143	Optoelectronic System-on-Glass for On-Chip Detection of Fluorescence. Lecture Notes in Electrical Engineering, 2018, , 143-149.	0.4	2
144	Design of an Evanescent Waveguide Sensor Based on a-Si:H Photodiodes for Lab-on-Chip Applications. Lecture Notes in Electrical Engineering, 2018, , 137-142.	0.4	2

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145	Optical Detection of Analytes through Evanescent Waves in Lab-on-Chip Devices. , 2021, , .		2
146	A new improved procedure for the determination of surface trap levels' density using transverse acoustoelectric voltage measurements. , 0, , .		1
147	Laser in-diffusion of Ti in LiNbO3 single crystals. Applied Surface Science, 1992, 54, 401-404.	6.1	1
148	Laser and thermal processing for Ti:LiNbO3 waveguide fabrication. Applied Physics A: Solids and Surfaces, 1993, 56, 349-351.	1.4	1
149	Correlation Between Minority Carrier Diffusion Length and Microstructure in a-Si:H Thin Films. Materials Research Society Symposia Proceedings, 1993, 297, 485.	0.1	1
150	Towards an hydrogenated amorphous silicon phototransistor cellular neural network. , 0, , .		1
151	<title>Amorphous silicon thin film photodetectors with high sensitivity and selectivity in the ultraviolet spectrum</title>. , 1996, 2808, 605.		1
152	Effect Of $\hat{1}/4$ -Doped Compensated Material on Stability of a-Si:H Solar Cells. Materials Research Society Symposia Proceedings, 1996, 420, 27.	0.1	1
153	Amorphous Silicon Photodetectors for Silicon Based Optical Waveguides. Solid State Phenomena, 1997, 54, 45-49.	0.3	1
154	A Novel Room Temperature Infrared Detector Using Micro-Compensated Amorphous Silicon. Materials Research Society Symposia Proceedings, 1998, 507, 219.	0.1	1
155	Near Infrared Response of Amorphous Silicon Detector Grown with Microcompensated Absorber Layer. Materials Research Society Symposia Proceedings, 1999, 557, 839.	0.1	1
156	Optical link for digital transmissions using porous silicon light emitting diode. Journal of Non-Crystalline Solids, 2000, 266-269, 1238-1240.	3.1	1
157	Amorphous silicon junction field-effect transistor with low pinch-off voltage for analog applications. Journal of Non-Crystalline Solids, 2004, 338-340, 762-765.	3.1	1
158	An alternative system for mycotoxin detection based on amorphous silicon sensors. , 2007, , .		1
159	Amorphous silicon balanced photodiode for application in biomolecular analysis. , 2009, , .		1
160	Large area hybrid detector technology based on amorphous silicon photosensors. , 2009, , .		1
161	Performances of amorphous silicon photodiodes integrated in chemiluminescence based $\hat{1}/4$ -TAS. Proceedings of SPIE, 2013, , .	0.8	1
162	Amorphous silicon balanced photodiode for microfluidic applications. Proceedings of SPIE, 2013, , .	0.8	1

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163	Evaluation of Hydrogen plasma effect in a-Si:H/c-Si interface by means of Surface Photovoltage measurement and FTIR spectroscopy. , 2014, , .		1
164	Multilayer integrated structure for selective detection of Ochratoxin A. , 2015, , .		1
165	Simultaneous measurement of light and temperature by a single amorphous silicon sensor. , 2015, , .		1
166	Drop position sensing in digital microfluidics based on capacitance measurement. , 2015, , .		1
167	Integration of Amorphous Silicon Balanced Photodiodes and Thin Film Heaters for Biosensing Application. Procedia Engineering, 2016, 168, 1434-1437.	1.2	1
168	Electro-optical detector for lab-on-chip applications. , 2017, , .		1
169	Lab-on-glass system for DNA treatments. , 2017, , .		1
170	Integrated System Based on Thin Film Technologies for Cell-Based Bioluminescence Assays. Proceedings (mdpi), 2017, 1, .	0.2	1
171	On-Glass Optoelectronic Platform for On-Chip Detection of DNA. Proceedings (mdpi), 2018, 2, 1014.	0.2	1
172	Optoelectronics properties of tungsten oxide nanoparticle networks deposited by flame spray pyrolysis. MRS Advances, 2018, 3, 3391-3396.	0.9	1
173	Development of an Electrochemiluminescence-based Lab-on-Chip Using Thin/Thick Film Technologies. , 2019, , .		1
174	Thin Film Sensor Platform for on-Chip Detection of Fluorescence-Based Aptamer Assay. , 2019, , .		1
175	Large-Area Thin Film Heater for Thermal Treatments in Lab-on-Chip. , 2021, , .		1
176	Amorphous Silicon Photosensors for Food Quality Control Applications. Lecture Notes in Electrical Engineering, 2015, , 249-253.	0.4	1
177	Amorphous Silicon Temperature Sensors Integrated with Thin Film Heaters for Thermal Treatments of Biomolecules. Lecture Notes in Electrical Engineering, 2018, , 183-193.	0.4	1
178	Micro-incubator Based on Lab-on-Glass Technology for Nanosatellite Missions. Lecture Notes in Electrical Engineering, 2020, , 83-89.	0.4	1
179	Monitoring of a-Si:H p-i-n light induced degradation by low temperature AC conductance. , 0, , .		0
180	Evidence of Energy Relaxation of Charged Defects in Amorphous Silicon Via Forward Bias Capacitance Measurements. Materials Research Society Symposia Proceedings, 1994, 336, 201.	0.1	0

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