

Augusto Nascetti

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134
papers

1,167
citations

21
h-index

28
g-index

151
ext. papers

1,406
ext. citations

2.8
avg, IF

4.12
L-index

#	Paper	IF	Citations
134	High-Gain S-band Patch Antenna System for Earth-Observation CubeSat Satellites. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015 , 14, 434-437	3.8	51
133	Analysis of lead oxide (PbO) layers for direct conversion X-ray detection. <i>IEEE Transactions on Nuclear Science</i> , 2005 , 52, 2035-2040	1.7	50
132	Hydrogenated amorphous silicon ultraviolet sensor for deoxyribonucleic acid analysis. <i>Applied Physics Letters</i> , 2006 , 88, 083904	3.4	45
131	Maximum power point tracker for portable photovoltaic systems with resistive-like load. <i>Solar Energy</i> , 2006 , 80, 982-988	6.8	45
130	Aptamer-based sandwich assay for on chip detection of Ochratoxin A by an array of amorphous silicon photosensors. <i>Sensors and Actuators B: Chemical</i> , 2016 , 230, 31-39	8.5	38
129	Chemiluminescence lateral flow immunoassay cartridge with integrated amorphous silicon photosensors array for human serum albumin detection in urine samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 8869-8879	4.4	35
128	On-chip detection of multiple serum antibodies against epitopes of celiac disease by an array of amorphous silicon sensors. <i>RSC Advances</i> , 2014 , 4, 2073-2080	3.7	34
127	Counting and Integrating Readout for Direct Conversion X-ray Imaging: Concept, Realization and First Prototype Measurements. <i>IEEE Transactions on Nuclear Science</i> , 2007 , 54, 383-390	1.7	34
126	Reconfigurable S-band patch antenna system for cubesat satellites. <i>IEEE Aerospace and Electronic Systems Magazine</i> , 2016 , 31, 6-13	2.4	33
125	. <i>IEEE Sensors Journal</i> , 2013 , 13, 2595-2602	4	33
124	Lab-on-chip system combining a microfluidic-ELISA with an array of amorphous silicon photosensors for the detection of celiac disease epitopes. <i>Sensing and Bio-Sensing Research</i> , 2015 , 6, 51-58	3.3	27
123	Detailed Study of Amorphous Silicon Ultraviolet Sensor With Chromium Silicide Window Layer. <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 452-456	2.9	26
122	Multiwell cartridge with integrated array of amorphous silicon photosensors for chemiluminescence detection: development, characterization and comparison with cooled-CCD luminograph. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 5645-56	4.4	25
121	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	25
120	Smart thin layer chromatography plate. <i>Lab on A Chip</i> , 2007 , 7, 978-80	7.2	25
119	Spectral tuned amorphous silicon p-i-n for DNA detection. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 2004-2006	3.9	25
118	PbO as direct conversion x-ray detector material 2004 ,		25

117	Amorphous Silicon Photosensors for Detection of Ochratoxin a in Wine. <i>IEEE Sensors Journal</i> , 2012 , 12, 2674-2679	4	23
116	Polydimethylsiloxane material as hydrophobic and insulating layer in electrowetting-on-dielectric systems. <i>Microelectronics Journal</i> , 2014 , 45, 1684-1690	1.8	22
115	Amorphous Silicon Sensors for Single and Multicolor Detection of Biomolecules. <i>IEEE Sensors Journal</i> , 2007 , 7, 1274-1280	4	22
114	Amorphous silicon p-i-n structure acting as light and temperature sensor. <i>Sensors</i> , 2015 , 15, 12260-72	3.8	21
113	Lab-on-glass system for DNA analysis using thin and thick film technologies. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1191, 48		20
112	Innovative Detection System of Ochratoxin A by Thin Film Photodiodes. <i>Sensors</i> , 2007 , 7, 1317-1322	3.8	20
111	Multifunctional System-on-Glass for Lab-on-Chip applications. <i>Biosensors and Bioelectronics</i> , 2017 , 93, 315-321	11.8	18
110	Infrared photodetection at room temperature using photocapacitance in amorphous silicon structures. <i>Applied Physics Letters</i> , 1998 , 72, 1229-1231	3.4	18
109	Integrated chemiluminescence-based lab-on-chip for detection of life markers in extraterrestrial environments. <i>Biosensors and Bioelectronics</i> , 2019 , 123, 195-203	11.8	17
108	Characterization of chromium silicide thin layer formed on amorphous silicon films. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2171-2175	3.9	17
107	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	3.9	16
106	Design and fabrication of microfluidics system integrated with temperature actuated microvalve. <i>Sensors and Actuators A: Physical</i> , 2015 , 236, 206-213	3.9	16
105	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	1.6	15
104	On-Chip Diagnosis of Celiac Disease by an Amorphous Silicon Chemiluminescence Detector. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 183-187	0.2	15
103	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	4.1	15
102	High energy-barrier for defect creation in thin-film transistors based on hot-wire amorphous silicon. <i>Applied Physics Letters</i> , 1999 , 75, 3674-3676	3.4	14
101	Metastability of hot-wire amorphous-silicon thin-film transistors. <i>Journal of Non-Crystalline Solids</i> , 2000 , 266-269, 464-468	3.9	13
100	A prototype hybrid pixel detector ASIC for the CLIC experiment. <i>Journal of Instrumentation</i> , 2014 , 9, C01012-C01012	10.12	10.12

99	Amorphous silicon phototransistor as nonlinear optical device for high dynamic range imagers. <i>IEEE Transactions on Electron Devices</i> , 2002 , 49, 395-399	2.9	12
98	On-chip LAMP-BART reaction for viral DNA real-time bioluminescence detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 1024-1033	8.5	11
97	Amorphous silicon photosensors integrated in microfluidic structures as a technological demonstrator of a TrueLab-on-Chip system. <i>Sensing and Bio-Sensing Research</i> , 2015 , 3, 98-104	3.3	11
96	On-chip real-time monitoring of multiple displacement amplification of DNA. <i>Sensors and Actuators B: Chemical</i> , 2019 , 293, 16-22	8.5	10
95	Improving the stability of amorphous silicon ultraviolet sensors. <i>Thin Solid Films</i> , 2007 , 515, 7517-7521	2.2	9
94	Thermal control system based on thin film heaters and amorphous silicon diodes 2015 ,		8
93	Linear system models for lag in flat dynamic x-ray detectors 2005 ,		8
92	An All-Glass Microfluidic Network with Integrated Amorphous Silicon Photosensors for on-Chip Monitoring of Enzymatic Biochemical Assay. <i>Biosensors</i> , 2017 , 7,	5.9	7
91	Technologies for autonomous integrated lab-on-chip systems for space missions. <i>Acta Astronautica</i> , 2016 , 128, 401-408	2.9	7
90	Innovative design of amorphous/crystalline silicon heterojunction solar cell. <i>Thin Solid Films</i> , 2008 , 516, 6771-6774	2.2	7
89	Integrated Optoelectronic Device for Detection of Fluorescent Molecules. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018 , 12, 1337-1344	5.1	7
88	Thermal characterization of a thin film heater on glass substrate for lab-on-chip applications 2014 ,		6
87	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	3.3	6
86	Amorphous silicon balanced photodiode for detection of ultraviolet radiation. <i>Sensors and Actuators A: Physical</i> , 2009 , 153, 1-4	3.9	6
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	3.9	6
84	Two-Color Sensor for Biomolecule Detection. <i>Sensor Letters</i> , 2008 , 6, 542-547	0.9	6
83	Reconfigurable S-Band Patch Antenna Radiation Patterns for Satellite Missions 2018 ,		6
82	Integrated Sensor System for DNA Amplification and Separation Based on Thin Film Technology. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 1141-1148	1.7	5

81	Amorphous silicon photosensors for on-chip detection in digital microfluidic system. <i>Sensors and Actuators A: Physical</i> , 2014 , 216, 1-6	3.9	5
80	Fractional charge packet counting with constant relative resolution. <i>International Journal of Circuit Theory and Applications</i> , 2012 , 40, 175-187	2	5
79	Electrowetting-on-dielectric system based on polydimethylsiloxane 2013 ,		5
78	Modeling of the photo-response of a smart thin layer chromatography system 2011 ,		5
77	A new analytical model for the amorphous silicon bulk barrier phototransistor. <i>Solid-State Electronics</i> , 1998 , 42, 339-348	1.7	5
76	Microdoped and microcompensated amorphous silicon films for infrared detection. <i>IEEE Photonics Technology Letters</i> , 1998 , 10, 1147-1149	2.2	5
75	Thermal characterization of thin film heater for lab-on-chip application 2015 ,		4
74	Optoelectronic System for Mycotoxin Detection in Food Quality Control. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2018 , 8, 1195-1202	1.7	4
73	DEMOCHEM: Integrated System for Mycotoxins Detection. <i>Procedia Engineering</i> , 2014 , 87, 1354-1357		4
72	Accurate analog temperature control of a thin film microheater on glass substrate for lab-on-chip applications 2014 ,		4
71	Amorphous silicon thin film as tuneable and high sensitive photodetector in the UV and far UV spectral range. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997 , 387, 243-245	1.2	4
70	Chromatography system based on amorphous silicon sensor. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2615-2618	3.9	4
69	Study of the transient response of microcompensated amorphous silicon detector in the near infrared range. <i>IEEE Transactions on Electron Devices</i> , 1999 , 46, 1140-1145	2.9	4
68	Linear Photosensor Array for On-Chip Food Quality Control Based on Thin Layer Chromatography. <i>Sensor Letters</i> , 2010 , 8, 465-469	0.9	4
67	Chemiluminescence-Based Micro-Total-Analysis System with Amorphous Silicon Photodiodes. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 207-211	0.2	4
66	Thermally actuated microfluidic system for lab on chip applications 2015 ,		3
65	The TIGRIsat camera A nanosatellite optical payload for detecting dust and sand storms 2015 ,		3
64	2-D digital microfluidic system for droplet handling using Printed Circuit Board technology 2015 ,		3

63	Microfluidic cartridge with integrated array of amorphous silicon photosensors for chemiluminescence detection of viral DNA. <i>Sensing and Bio-Sensing Research</i> , 2016 , 7, 127-132	3.3	3
62	Improvement of the Thermal Resistance of Thin Film Heaters on Glass Substrate for Lab-on-Chip Applications. <i>Procedia Engineering</i> , 2014 , 87, 959-962		3
61	Sophie: A General Purpose Sub-Picoamps Current Readout Electronics. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 285-289	0.2	3
60	Thin Film Differential Photosensor for Reduction of Temperature Effects in Lab-on-Chip Applications. <i>Sensors</i> , 2016 , 16, 267	3.8	3
59	Implementation and Hardware-In-The-Loop Simulation of a Magnetic Detumbling and Pointing Control Based on Three-Axis Magnetometer Data. <i>Aerospace</i> , 2019 , 6, 133	2.5	3
58	Rapid prototyping of glass microfluidic chips based on autonomous capillary networks for physiological solutions 2015 ,		2
57	Detection of viral DNA by isothermal NASBA amplification and chemiluminescence gene probe hybridization assay in a microfluidic cartridge. <i>Journal of Clinical Virology</i> , 2015 , 70, S91-S92	14.5	2
56	Portable detection system for Ochratoxin A by real time chromatography and a-Si:H photodiodes 2017 ,		2
55	Multi-channel Very-low-noise Current Acquisition System with On-board Voltage Supply for Sensor Biasing and Readout. <i>Procedia Engineering</i> , 2014 , 87, 1577-1580		2
54	On the fabrication and characterization of amorphous silicon ultra-violet sensor array. <i>Thin Solid Films</i> , 2009 , 517, 6422-6425	2.2	2
53	2011 ,		2
52	Innovative Optoelectronic Approaches to Biomolecular Analysis with Arrays of Silicon Devices 2006 ,		2
51	Innovative window layer for amorphous silicon/amorphous silicon carbide UV sensor. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1818-1821	3.9	2
50	Flat detector with integrated dose sensing 2003 , 5030, 246		2
49	Experimental evidence of boron induced charged defects in amorphous silicon materials. <i>Thin Solid Films</i> , 1999 , 348, 79-83	2.2	2
48	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. <i>Materials</i> , 2021 , 14,	3.5	2
47	Thermally Actuated Microfluidic System for Polymerase Chain Reaction Applications. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 23-27	0.2	2
46	Optoelectronic System-on-Glass for On-Chip Detection of Fluorescence. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 143-149	0.2	2

45	Integration of Capillary and EWOD Technologies for Autonomous and Low-power Consumption Micro-analytical Systems. <i>Procedia Engineering</i> , 2016 , 168, 1370-1373		2
44	Thin Film Sensor Platform for on-Chip Detection of Fluorescence-Based Aptamer Assay 2019 ,		1
43	Drop position sensing in digital microfluidics based on capacitance measurement 2015 ,		1
42	On the Stability of Amorphous Silicon Temperature Sensors. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 3348-3354	2.9	1
41	Integrated System Based on Thin Film Technologies for Cell-Based Bioluminescence Assays. <i>Proceedings (mdpi)</i> , 2017 , 1, 513	0.3	1
40	Lab-on-glass system for DNA treatments 2017 ,		1
39	Multilayer integrated structure for selective detection of Ochratoxin A 2015 ,		1
38	Optical payload for high-resolution Earth imaging suitable for microsatellites 2015 ,		1
37	Performances of amorphous silicon photodiodes integrated in chemiluminescence based ETAS 2013 ,		1
36	Amorphous silicon balanced photodiode for microfluidic applications 2013 ,		1
35	Charge to digital converter with constant resolution over the dynamic range. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009 , 197, 302-305		1
34	Amorphous silicon twin photodiode structure for differential current measurements. <i>Thin Solid Films</i> , 2009 , 517, 6418-6421	2.2	1
33	Amorphous silicon balanced photodiode for application in biomolecular analysis 2009 ,		1
32	Large area hybrid detector technology based on amorphous silicon photosensors 2009 ,		1
31	Innovative Amorphous Silicon Balanced Ultraviolet Photodiode. <i>IEEE Electron Device Letters</i> , 2008 , 29, 1299-1301	4.4	1
30	Counting and integrating readout for direct conversion X-ray imaging concept, realization and first prototype measurements		1
29	A Novel Room Temperature Infrared Detector Using Micro-Compensated Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 507, 219		1
28	Near Infrared Response of Amorphous Silicon Detector Grown with Microcompensated Absorber Layer. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 557, 839		1

27	Micro-incubator Based on Lab-on-Glass Technology for Nanosatellite Missions. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 83-89	0.2	1
26	Amorphous Silicon Photosensors for Food Quality Control Applications. <i>Lecture Notes in Electrical Engineering</i> , 2015 , 249-253	0.2	1
25	Integration of Amorphous Silicon Balanced Photodiodes and Thin Film Heaters for Biosensing Application. <i>Procedia Engineering</i> , 2016 , 168, 1434-1437		1
24	On-Glass Optoelectronic Platform for On-Chip Detection of DNA. <i>Proceedings (mdpi)</i> , 2018 , 2, 1014	0.3	1
23	Amorphous Silicon Temperature Sensors Integrated with Thin Film Heaters for Thermal Treatments of Biomolecules. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 183-193	0.2	0
22	Transparent Oxide/Metal/Oxide Thin Film Heater With Integrated Resistive Temperature Sensors. <i>IEEE Sensors Journal</i> , 2021 , 21, 18847-18854	4	0
21	Modelling the interaction of the Astro Bio Cube Sat with the Van Allen's Belt radiative field using Monte Carlo transport codes. <i>Radiation Detection Technology and Methods</i> , 1	0.7	0
20	AstroBio CubeSat: On-Ground Validation of Lab-on-Chip Based Astrobiology Experiments. <i>Lecture Notes in Electrical Engineering</i> , 2023 , 14-20	0.2	0
19	Portable Optoelectronic System for Monitoring Enzymatic Chemiluminescent Reaction. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 189-194	0.2	
18	On-Glass Integration of Thin Film Devices for Monitoring of Cell Bioluminescence. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 45-51	0.2	
17	Integration of Amorphous Silicon Photosensors with Thin Film Interferential Filter for Biomolecule Detection. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 121-127	0.2	
16	Design of pixel electronics based on asynchronous self-reset approach with floating-point output representation for high dynamic range imagers. <i>Journal of Instrumentation</i> , 2011 , 6, C01070-C01070	1	
15	Use of fractional packet counting for high dynamic range imaging applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 648, S146-S149	1.2	
14	Stress-Induced Via Voiding in a 130-nm CMOS Imager Process. <i>IEEE Transactions on Device and Materials Reliability</i> , 2010 , 10, 100-107	1.6	
13	Detection system based on a novel large area hybrid detector. <i>Microelectronics Journal</i> , 2010 , 41, 752-757	1.8	
12	Chromium silicide film on ceramic substrate for pressure measurement. <i>Thin Solid Films</i> , 2007 , 515, 7647-7649	2.649	
11	Non Linear Optical Gain in Bulk Barrier Amorphous Silicon Phototransistor. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 1231		
10	A Junction Field Effect Transistor Based on Hydrogenated Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 3111		

- 9 Noise model of a-Si:H IR photodetectors. *Journal of Non-Crystalline Solids*, **2000**, 266-269, 1193-1197 3.9
- 8 Photocapacitance of Hydrogenated Amorphous Silicon Phototransistors. *Materials Research Society Symposia Proceedings*, **2001**, 664, 2631
- 7 Stability of Hydrogenated Amorphous Silicon Diodes as Thin Film Temperature Sensors. *Lecture Notes in Electrical Engineering*, **2020**, 259-264 0.2
- 6 Innovative Optoelectronic Approaches to Biomolecular Analysis with Arrays of Silicon Devices **2008**, 37-53
- 5 Design, Fabrication and Testing of a Capillary Microfluidic System with Stop-and-Go Valves Using EWOD Technology. *Lecture Notes in Electrical Engineering*, **2018**, 200-208 0.2
- 4 Enhancement in PDMS-Based Microfluidic Network for On-Chip Thermal Treatment of Biomolecules. *Lecture Notes in Electrical Engineering*, **2018**, 99-106 0.2
- 3 Autonomous Microfluidic Capillary Network for on Chip Detection of Chemiluminescence. *Lecture Notes in Electrical Engineering*, **2018**, 295-302 0.2
- 2 Thin Film Device for Background Photocurrent Rejection in Biomolecular Analysis Systems. *Lecture Notes in Electrical Engineering*, **2014**, 281-285 0.2
- 1 Integrated Hybrid Glass-Plastic Chip for Sorting and Counting of Microparticles in Biomedical Applications. *Lecture Notes in Electrical Engineering*, **2023**, 39-44 0.2