

Paula Louro

List of Publications by Year in Descending Order

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

138 papers	424 citations	9 h-index	15 g-index
170 ext. papers	529 ext. citations	2.6 avg, IF	3.02 L-index

#	Paper	IF	Citations
138	Positioning and advertising in large indoor environments using visible light communication. <i>Optical Engineering</i> , 2019 , 58, 1	1.1	1
137	Bi-directional communication between infrastructures and vehicles through visible light 2019 ,		5
136	Indoor positioning and intuitive advertising using visible light communication 2019 ,		1
135	Connected cars: road-to-vehicle communication through visible light 2019 ,		1
134	Bi-directional VLC LED-assisted navigation system for large indoor environments 2019 ,		1
133	Cooperative vehicular communication systems based on visible light communication. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	5
132	Light-emitting diodes aided indoor localization using visible light communication technology. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	5
131	Double junction photodiodes for multiwavelength photoplethysmography 2018 ,		1
130	On the use of visible light communication in cooperative vehicular communication systems 2018 ,		1
129	A Simulation Study of Surface Plasmons in Metallic Nanoparticles: Dependence on the Properties of an Embedding a-Si:H Matrix. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700487	1.6	4
128	Optical vehicular communication based on a-SiC:H technology. <i>Science and Technology of Materials</i> , 2018 , 30, 151-156		1
127	Indoor positioning system using a WDM device based on a-SiC:H technology. <i>Journal of Luminescence</i> , 2017 , 191, 135-138	3.8	8
126	Optical communication applications based on white LEDs. <i>Journal of Luminescence</i> , 2017 , 191, 122-125	3.8	3
125	Optical signal processing for a smart vehicle lighting system using a-SiCH technology 2017 ,		3
124	Coupled data transmission and indoor positioning by using transmitting trichromatic white LEDs and a SiC optical MUX/DEMUX mobile receiver 2017 ,		2
123	Simulation of localized surface plasmon in metallic nanoparticles embedded in amorphous silicon 2017 ,		1
122	Optical signal processing for indoor positioning using a-SiCH technology. <i>Optical Engineering</i> , 2016 , 55, 107105	1.1	4

121	Five channel WDM communication using a single a-SiC:H double pin photo device. <i>Applied Surface Science</i> , 2016 , 380, 318-325	6.7	1
120	Transmission of Signals Using White LEDs for VLC Applications1. <i>Materials Today: Proceedings</i> , 2016 , 3, 780-787	1.4	1
119	Amorphous Silicon Photovoltaic Modules on Flexible Plastic Substrates. <i>MRS Advances</i> , 2016 , 1, 2923-2928	2.7	1
118	Majority Logical Function Using a pi-pi pin a-SiC:H Structure. <i>Materials Today: Proceedings</i> , 2016 , 3, 772-779	1.4	1
117	Optical processor based on a-SiC technology for spectral data error control. <i>Microelectronic Engineering</i> , 2015 , 146, 6-10	2.5	1
116	Error control on spectral data of four-wave mixing based on a-SiC technology. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 181-186		2
115	Light memory function in a double pin SiC device. <i>Microelectronic Engineering</i> , 2015 , 146, 99-104	2.5	1
114	VIS/NIR wavelength selector based on a multilayer pi-n/pin a-SiC:H optical filter. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 1387-1392		1
113	Optical signal processing for data error detection and correction using a-SiCH technology. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 1393-1400		13
112	Preparation and Characterization of a-SiC:H Absorber Layer for Semi-transparent Solar Cells. <i>Energy Procedia</i> , 2015 , 84, 56-61	2.3	1
111	Light Memory Operation Based on a Double Pin SiC Device. <i>IFIP Advances in Information and Communication Technology</i> , 2015 , 265-272	0.5	1
110	4 Channels WDM Device for Operation in the Visible. <i>Procedia Technology</i> , 2014 , 17, 566-573		1
109	Tuning optical a-SiC/a-Si active filters by UV bias light in the visible and infrared spectral ranges. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 1674-1677		2
108	Logic functions based on optical bias controlled SiC tandem devices. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 211-216		2
107	Viability of the use of thin-film a-SiC:H photodiodes for protein identification. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 228-233		1
106	Add/drop filters based on SiC technology for optical interconnects. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 56, 012008	0.4	1
105	Bridging the Visible Spectrum to Telecom Gap with SiC Nanophotonic Spectral Translation. <i>Procedia Technology</i> , 2014 , 17, 310-318		1
104	Logical functions in a tandem SiC device. <i>Microelectronic Engineering</i> , 2014 , 126, 79-83	2.5	3

103	SiC pinpin photonic filters for linking the visible spectrum to the telecom gap. <i>Microelectronic Engineering</i> , 2014 , 126, 179-183	2.5	1
102	Visible Light Communication in Traffic Links Using an a-SiC:H Multilayer Photodetector. <i>Procedia Technology</i> , 2014 , 17, 550-556		2
101	AND, OR, NOT Logical Functions in a SiC Tandem Device. <i>Procedia Technology</i> , 2014 , 17, 557-565		3
100	Increased sensitivity in a-SiC pinpin multilayers in the VIS-NIR range under UV light. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1666, 71		
99	Near-UV background as a bridge between visible and infrared communication. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1666, 65		
98	Integrated Visible optical filter and photodetector for detection of FRET signals. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1689, 1		
97	Home VLC using pinpin a-SiC:H multilayer devices. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1693, 81		0
96	Simple and Complex Logical Functions in a SiC Tandem Device. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 592-601	0.5	4
95	Simulation in Amorphous Silicon and Amorphous Silicon Carbide Pin Diodes. <i>IFIP Advances in Information and Communication Technology</i> , 2014 , 602-609	0.5	
94	Reconfigurable SiC Embedded Photonic Structures with Self Optical Bias Control. <i>Plasmonics</i> , 2013 , 8, 45-51	2.4	1
93	SiC Multilayer Structures as Light Controlled Photonic Active Filters. <i>Plasmonics</i> , 2013 , 8, 63-70	2.4	6
92	Optical Filter Design Using Background Wavelength Processing Techniques. <i>Plasmonics</i> , 2013 , 8, 121-127	2.4	
91	Integrated photonic filters based on SiC multilayer structures. <i>Applied Surface Science</i> , 2013 , 275, 185-192	2.7	2
90	Capacitive effects in pinpin photodiodes. <i>Microelectronic Engineering</i> , 2013 , 108, 195-199	2.5	2
89	Detection of FRET signals with a wavelength sensitive device based on a-SiC:H. <i>Applied Surface Science</i> , 2013 , 275, 49-53	6.7	3
88	Optoelectronic logic functions using optical bias controlled SiC multilayer devices. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1536, 91-96		8
87	Design of an optical transmission WDM link using plastic optical fibers. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1536, 85-90		
86	SiC multilayer add/drop filter for optical interconnects. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1559, 1		1

85	SiC monolithically integrated wavelength selector with 4 channels. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1536, 79-84		4
84	Photodetector with integrated optical thin film filters. <i>Journal of Physics: Conference Series</i> , 2013 , 421, 012011	0.3	3
83	Optoelectronic Digital Capture Device Based on Si/C Multilayer Heterostructures. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 555-562	0.5	2
82	Measurement of Photo Capacitance in Amorphous Silicon Photodiodes. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 547-554	0.5	1
81	Optoelectronic Logic Functions Based on Reconfigurable SiC Multilayer Devices. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 539-546	0.5	
80	Use of a-SiC:H Semiconductor-Based Transducer for Glucose Sensing through FRET Analysis. <i>IFIP Advances in Information and Communication Technology</i> , 2013 , 631-638	0.5	
79	Light-Activated Amplification in Si-C Tandem Devices: A Capacitive Active Filter Model. <i>IEEE Sensors Journal</i> , 2012 , 12, 1755-1762	4	29
78	Optical nonlinearity in tandem Si-C photodetectors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 2054-2057		
77	DEMUX devices based on a-SiC:H. <i>Sensors and Actuators A: Physical</i> , 2012 , 186, 143-147	3.9	1
76	Three Transducers Embedded into a Single SiC Photodetector: LSP Direct Image Sensor, Optical Amplifier and Demux. <i>Journal of Nano Research</i> , 2012 , 18-19, 265-270	1	
75	Photonic active filters based on SiC multilayer structures. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1438, 35		
74	Novel device for implementation of WDM in the visible spectrum. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1438, 55		1
73	SiC multilayer photonic structures with self optical bias amplification. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1426, 229-235		2
72	Characterization of a monolithic device for detection of FRET signals. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1426, 187-192		1
71	Light filtering devices using background wavelength processing techniques. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1426, 175-180		
70	SiC Multilayer Photonic Structures with Self Optical Bias Amplification. <i>International Federation for Information Processing</i> , 2012 , 511-518		
69	Photonics Active Filters Based on SiC Multilayer Structures: A Two Stage Active Circuit. <i>International Federation for Information Processing</i> , 2012 , 503-510		
68	Semiconductor device as optical demultiplexer for short range optical communications. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5318-22	1.3	3

67	Detection of change in fluorescence between reactive cyan and the yellow fluorophores using a-SiC:H multilayer transducers. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 8657-62	1.3	
66	Multilayer architectures based on a-SiC:H material: tunable wavelength filters in optical processing devices. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5299-304	1.3	3
65	Optical demultiplexer device operating in the visible spectrum. <i>Sensors and Actuators A: Physical</i> , 2011 , 172, 35-39	3.9	5
64	Photo-sensing devices using a-Si based materials. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1079-1082		1
63	Light-triggered silicon-carbon p-i-n pin devices with self amplification. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1083-1086		
62	Optical bias controlled amplification in tandem Si-C pinpin devices. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1321, 417		
61	Use of a-SiC:H multilayer transducers for detection of fluorescence signals from reactive cyan and yellow fluorophores. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1321, 223		
60	Optical Demultiplexer Device: Frequency and optical bias analysis. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1321, 449		1
59	Self optical gain in multilayered silicon-carbon heterostructures: A capacitive active band-pass filter model. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1321, 441		1
58	DEMUX SiC optical transducers for fluorescent proteins detection. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1324, 137		
57	Optical Transducers Based on Amorphous Si/SiC Photodiodes. <i>International Federation for Information Processing</i> , 2011 , 604-611		
56	Demultiplexer/Photodetector Integrated System Based on a-SiC:H Multilayered Structures. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1245, 1		
55	Reviewing Photo-sensing Devices Using a-SiC Based Materials. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1245, 1		
54	a-SiC:H Based Devices as Optical Demultiplexers. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1246, 1		
53	Monolithic a-SiC:H stack architectures as tunable optical filters for spectral analysis. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1246, 1		
52	Light-triggered Silicon-carbon Pi-n pin Devices for Optical Communications: Theoretical and Electrical Approaches. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1245, 1		
51	Double Pin Photodiodes with Two Optical Gate Connections for Light Triggering 2010 ,		3
50	Direct color sensor, optical amplifier and demux device integrated on a single monolithic SiC photodetector. <i>Procedia Engineering</i> , 2010 , 5, 232-235		2

49	Optical demultiplexer device operating in the visible spectrum. <i>Procedia Engineering</i> , 2010 , 5, 657-660		
48	Optical processing devices based on a-SiC:H multilayer architectures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		2
47	Optical demultiplexer based on an a-SiC:H voltage controlled device. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		1
46	Voltage controlled amorphous Si/SiC photodiodes and phototransistors as wavelength selective devices: Theoretical and electrical approaches. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1153, 1		8
45	Modeling a-SiC:H tandem pinpin and pinip photodiodes for color sensor application. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4028-33	1.3	1
44	Fine Tuning of the Spectral Sensitivity in a-SiC:H Stacked p-i-n Graded Cells. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1153, 1		
43	Optical Processing Devices for Optical Communications: Multilayered a-SiC:H Architectures. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1153, 1		
42	Large area double p-i heterostructure for signal multiplexing and demultiplexing in the visible range. <i>Thin Solid Films</i> , 2009 , 517, 6435-6439	2.2	5
41	Optical multiplexer for short range communications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1082-1085	3	13
40	Photocurrent and spectral response analysis of a-SiC:H pinip and pinpin photodiodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4254-8	1.3	
39	Pinpin and pinpin multilayer devices with voltage controlled optical readout. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4022-7	1.3	15
38	Non-selective optical wavelength-division multiplexing devices based on a-SiC:H multilayer heterostructures. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1076, 1		
37	Multilayered a-SiC:H device for Wavelength-Division (de)Multiplexing applications in the visible spectrum. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1066, 1		2
36	Self-biasing effect in colour sensitive photodiodes based on double p-i-n a-SiC:H heterojunctions. <i>Vacuum</i> , 2008 , 82, 1512-1516	3.7	26
35	Colour sensitive devices based on double p-i-n-i-p stacked photodiodes. <i>Thin Solid Films</i> , 2007 , 515, 7526-7529	4	
34	Bias sensitive multispectral structures for imaging applications. <i>Thin Solid Films</i> , 2007 , 515, 7566-7570	2.2	11
33	Preliminary Results on Large Area X-ray a-SiC:H Multilayer Detectors with Optically Addressed Readout. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 989, 2		1
32	An amorphous SiC/Si image photodetector with voltage-selectable spectral response. <i>Thin Solid Films</i> , 2006 , 511-512, 167-171	2.2	8

31	Low leakage current a-Si:H/a-SiC:H n ⁺ p photodiode with Cr/a-SiN _x front contact. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1837-1840	3.9	1
30	Light filtering in a-SiC:H multilayers stacked devices using the LSP technique. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1809-1812	3.9	1
29	a-SiC:H/a-Si:H tandem structure analysis for RGB color recognition in LSP devices. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1805-1808	3.9	
28	Colour filtering in a-SiC:H based p-i-n-p-i-n cells: A trade-off between bias polarity and absorption regions. <i>Sensors and Actuators A: Physical</i> , 2006 , 132, 218-223	3.9	1
27	Bias sensitive spectral sensitivity in double a-SiC:H pin structures. <i>Superlattices and Microstructures</i> , 2006 , 40, 619-625	2.8	
26	Fine-tuning of the spectral collection efficiency in multilayer junctions. <i>Thin Solid Films</i> , 2006 , 511-512, 84-88	2.2	
25	Tuning the spectral distribution of p ⁺ i a-SiC:H devices for colour detection. <i>Sensors and Actuators A: Physical</i> , 2005 , 120, 88-93	3.9	1
24	Image and color recognition using amorphous silicon p ⁺ i photodiodes. <i>Sensors and Actuators A: Physical</i> , 2005 , 123-124, 326-330	3.9	7
23	A two terminal optical signal and image processing p ⁺ i/p ⁺ i image and colour sensor. <i>Sensors and Actuators A: Physical</i> , 2005 , 123-124, 331-336	3.9	3
22	Enhanced short wavelength response in laser-scanned-photodiode image sensor using an a-SiC:H/a-Si:H tandem structure. <i>Sensors and Actuators A: Physical</i> , 2005 , 123-124, 343-348	3.9	2
21	Optical signal and image processing device optimized for optical readout. <i>Optical Materials</i> , 2005 , 27, 1064-1068	3.3	
20	p ⁺ i flexible imaging devices with optical readout. <i>Optical Materials</i> , 2005 , 27, 1069-1073	3.3	3
19	Optical confinement and colour separation in a double colour laser scanned photodiode (D/CLSP). <i>Sensors and Actuators A: Physical</i> , 2004 , 114, 219-223	3.9	2
18	A non-pixel image reader for continuous image detection based on tandem heterostructures. <i>Sensors and Actuators A: Physical</i> , 2004 , 115, 191-195	3.9	
17	a-SiC:H/a-Si:H tandem photodiodes: a numerical simulation. <i>Sensors and Actuators A: Physical</i> , 2004 , 113, 324-328	3.9	3
16	Optoelectronic characterization of a-SiC:H stacked devices. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 345-348	3.9	7
15	Optically addressed read/write device based on tandem heterostructure. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 754-757	3.9	4
14	Bias controlled spectral sensitivity in a-SiC:H p ⁺ i devices. <i>Thin Solid Films</i> , 2003 , 427, 196-200	2.2	2

13	Non-pixeled amorphous silicon-based image sensors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 16, 563-567	3	2
12	Memory effects in highly resistive p ⁺ Si heterojunctions for optical applications. <i>Thin Solid Films</i> , 2002 , 403-404, 363-367	2.2	2
11	Modelling a-Si:H based p-i-n structures for optical sensor applications. <i>Thin Solid Films</i> , 2002 , 403-404, 354-358	2.2	
10	Laser scanned photodiodes (LSPs) for image sensing. <i>Sensors and Actuators A: Physical</i> , 2002 , 97-98, 98-103	3.7	2
9	Bias-dependent photocurrent collection in p ⁺ Si a-Si:H/SiC:H heterojunction. <i>Sensors and Actuators A: Physical</i> , 2002 , 97-98, 221-226	3.9	3
8	Analog readout image sensor based on p ⁺ Si hydrogenated amorphous silicon. <i>Vacuum</i> , 2002 , 64, 249-254	3.7	
7	Image capture devices based on p ⁺ Si silicon carbides for biometric applications. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 1245-1249	3.9	21
6	Transport mechanism in high resistive silicon carbide heterostructures. <i>Applied Surface Science</i> , 2001 , 184, 144-149	6.7	20
5	LSP image sensors based on SiC heterostructures. <i>Applied Surface Science</i> , 2001 , 184, 471-476	6.7	5
4	Influence of the transducer configuration on the p-i-n image sensor resolution. <i>Thin Solid Films</i> , 2001 , 383, 65-68	2.2	3
3	Optimized Laser Scanned Photodiode (LSP) Imaging Transducer. <i>Physica Status Solidi A</i> , 2001 , 185, 129-135		1
2	Laser-scanned p-i-n photodiode (LSP) for image detection. <i>IEEE Sensors Journal</i> , 2001 , 1, 158	4	51
1	On the a-Si:H film growth: the role of the powder formation. <i>Journal of Non-Crystalline Solids</i> , 1996 , 198-200, 1207-1211	3.9	8