

Manuel Barata

List of Publications by Year in descending order

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48
papers

139
citations

1478505

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1372567

10
g-index

52
all docs

52
docs citations

52
times ranked

72
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical multiplexer for short range communications. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1082-1085.	2.7	15
2	Optical demultiplexer based on an a-SiC:H voltage controlled device. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1188-1191.	0.8	15
3	Optoelectronic logic functions using optical bias controlled SiC multilayer devices. Materials Research Society Symposia Proceedings, 2013, 1536, 91-96.	0.1	11
4	Reliable and secure communications infrastructure for virtual enterprises. Journal of Intelligent Manufacturing, 2001, 12, 171-183.	7.3	8
5	Voltage Controlled Amorphous Si/SiC Phototransistors and Photodiodes as Wavelength Selective Devices: Theoretical and Electrical Approaches. Materials Research Society Symposia Proceedings, 2009, 1153, 1.	0.1	8
6	The PRODNET Communication Infrastructure. IFIP Advances in Information and Communication Technology, 1999, , 167-186.	0.7	7
7	Large area double p-i-n heterostructure for signal multiplexing and demultiplexing in the visible range. Thin Solid Films, 2009, 517, 6435-6439.	1.8	6
8	Optical processing devices based on a-SiC:H multilayer architectures. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1184-1187.	0.8	6
9	NFC Technologies in Mobile Phones and Emerging Applications. , 2006, , 425-434.		6
10	Simple and Complex Logical Functions in a SiC Tandem Device. IFIP Advances in Information and Communication Technology, 2014, , 592-601.	0.7	5
11	Secure Electronic Commerce in Virtual Enterprises of SMEs. IFIP Advances in Information and Communication Technology, 1998, , 207-218.	0.7	5
12	Multilayered a-SiC:H device for Wavelength-Division (de)Multiplexing applications in the visible spectrum. Materials Research Society Symposia Proceedings, 2008, 1066, 1.	0.1	4
13	Logical functions in a tandem SiC device. Microelectronic Engineering, 2014, 126, 79-83.	2.4	4
14	Virtual laboratory for educational environments. , 2014, , .		4
15	A Method For Automatic Fuzzy Set Generation Using Sensor Data. Intelligent Automation and Soft Computing, 2008, 14, 279-294.	2.1	3
16	Multilayer Architectures Based on a-SiC:H Material: Tunable Wavelength Filters in Optical Processing Devices. Journal of Nanoscience and Nanotechnology, 2011, 11, 5299-5304.	0.9	3
17	AND, OR, NOT Logical Functions in a SiC Tandem Device. Procedia Technology, 2014, 17, 557-565.	1.1	3
18	Error control on spectral data of four-wave mixing based on a-SiC technology. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 181-186.	0.8	3

#	ARTICLE	IF	CITATIONS
19	OpenADR-Intelligent Electrical Energy Consumption Towards Internet-of-Things. Lecture Notes in Electrical Engineering, 2017, , 725-736.	0.4	3
20	Development high performance scientific computing application using model-driven architecture. Applied Mathematical Sciences, 0, 7, 4961-4974.	0.1	3
21	New Data Preparation Process A Case Study for an Exomars Drill. , 2006, , .		2
22	SiC multilayer photonic structures with self optical bias amplification. Materials Research Society Symposia Proceedings, 2012, 1426, 229-235.	0.1	2
23	Logic functions based on optical bias controlled SiC tandem devices. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 211-216.	0.8	2
24	Interoperability Among Its Systems with Its-Ibus Framework. , 2004, , 241-250.		1
25	Low cost method to reproduce sound with FPGA. , 2008, , .		1
26	Photo-sensing devices using a-Si based materials. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1079-1082.	0.8	1
27	Coordination-free deterministic communication for embedded system using the BBC encoding. , 2013, , .		1
28	Five channel WDM communication using a single a-SiC:H double pin photo device. Applied Surface Science, 2016, 380, 318-325.	6.1	1
29	Transputer-based multi-agent monitoring system in NC. Robotics and Computer-Integrated Manufacturing, 1994, 11, 319-325.	9.9	0
30	Learning of specific process monitors in machine tool supervision. Annual Review in Automatic Programming, 1994, 19, 105-110.	0.2	0
31	Non-selective optical wavelength-division multiplexing devices based on a-SiC:H multilayer heterostructures. Materials Research Society Symposia Proceedings, 2008, 1076, 1.	0.1	0
32	New stacked photodevices for signal multiplexing and demultiplexing applications in the visible spectrum. , 2009, , .		0
33	Demultiplexer/Photodetector Integrated System Based on a-SiC:H Multilayered Structures. Materials Research Society Symposia Proceedings, 2010, 1245, 1.	0.1	0
34	Reviewing Photo-sensing Devices Using a-SiC Based Materials. Materials Research Society Symposia Proceedings, 2010, 1245, 1.	0.1	0
35	a-SiC:H Based Devices as Optical Demultiplexers. Materials Research Society Symposia Proceedings, 2010, 1246, 1.	0.1	0
36	Monolithic a-SiC:H Stack Architectures as Tunable Optical Filters for Spectral Analysis. Materials Research Society Symposia Proceedings, 2010, 1246, 1.	0.1	0

#	ARTICLE	IF	CITATIONS
37	Monolithic a-SiC:H Architectures as Tunable Optical Filters for Spectral Analysis. , 2010, , .		0
38	Optical bias controlled amplification in tandem Si-C pinpin devices. Materials Research Society Symposia Proceedings, 2011, 1321, 417.	0.1	0
39	Photonic active filters based on SiC multilayer structures. Materials Research Society Symposia Proceedings, 2012, 1438, 35.	0.1	0
40	Light memory function in a double pin SiC device. Microelectronic Engineering, 2015, 146, 99-104.	2.4	0
41	A five channels SiC MUX/DEMUX device with channel separation in the visible range. Proceedings of SPIE, 2016, , .	0.8	0
42	Majority Logical Function Using a piâ€™™npin a-SiC:H Structure1. Materials Today: Proceedings, 2016, 3, 772-779.	1.8	0
43	Seven channel wavelength demultiplexer using a tandem a:SiC-H/a:Si-H photo sensor. , 2016, , .		0
44	Electronic Commerce with XML/EDI in Virtual Enterprises. IFIP Advances in Information and Communication Technology, 2001, , 311-324.	0.7	0
45	Optoelectronic Logic Functions Based on Reconfigurable SiC Multilayer Devices. IFIP Advances in Information and Communication Technology, 2013, , 539-546.	0.7	0
46	Extended Enterprise Communications Based On The Client/Server Paradigm. IFIP Advances in Information and Communication Technology, 1998, , 219-228.	0.7	0
47	Learning To Classify. , 1999, , 137-160.		0
48	Reconfigurable Photonic Logic Architecture: An Overview. IFIP Advances in Information and Communication Technology, 2017, , 447-462.	0.7	0