

Javier Garrido

List of Publications by Year in descending order

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papers

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567281

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95
times ranked

765
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamically inserting, operating, and eliminating thermal sensors of FPGA-based systems. IEEE Transactions on Components and Packaging Technologies, 2002, 25, 561-566.	1.3	87
2	A Comparison of Simulation and Hardware-in-the- Loop Alternatives for Digital Control of Power Converters. IEEE Transactions on Industrial Informatics, 2012, 8, 491-500.	11.3	63
3	Thermal testing on reconfigurable computers. IEEE Design and Test of Computers, 2000, 17, 84-91.	1.0	54
4	An exudate detection method for diagnosis risk of diabetic macular edema in retinal images using feature-based and supervised classification. Medical and Biological Engineering and Computing, 2018, 56, 1379-1390.	2.8	36
5	A tool for automated diabetic retinopathy pre-screening based on retinal image computer analysis. Computers in Biology and Medicine, 2017, 88, 100-109.	7.0	33
6	Autonomous indoor ultrasonic positioning system based on a low-cost conditioning circuit. Measurement: Journal of the International Measurement Confederation, 2012, 45, 276-283.	5.0	30
7	Ionâ€implanted, electronâ€beam annealed TiN films as diffusion barriers for Al on Si shallow junctions. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 2237-2241.	2.1	29
8	Single ADC Digital PFC Controller Using Precalculated Duty Cycles. IEEE Transactions on Power Electronics, 2014, 29, 996-1005.	7.9	25
9	Photoluminescence in transmutation doped liquidâ€phaseâ€epitaxial gallium arsenide. Journal of Applied Physics, 1985, 57, 2186-2190.	2.5	22
10	Short-time annealing of as-grown p-CdTe wafers. Semiconductor Science and Technology, 1994, 9, 1713-1718.	2.0	22
11	Silicon dioxide deposition by electron cyclotron resonance plasma: Kinetic and ellipsometric studies. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 581.	1.6	22
12	HCTNav: A Path Planning Algorithm for Low-Cost Autonomous Robot Navigation in Indoor Environments. ISPRS International Journal of Geo-Information, 2013, 2, 729-748.	2.9	22
13	Simplified Occupancy Grid Indoor Mapping Optimized for Low-Cost Robots. ISPRS International Journal of Geo-Information, 2013, 2, 959-977.	2.9	20
14	Design considerations of a small UAV platform carrying medium payloads. , 2014, , .		17
15	Thermal degeneration of Mo and Pt silicon Schottky diodes. Solid-State Electronics, 1980, 23, 591-598.	1.4	16
16	Deep centers introduced by argon ion bombardment in n-type silicon. Solid-State Electronics, 1981, 24, 1121-1126.	1.4	16
17	Kinetics and Compositional Dependence on the Microwave Power and SiH ₄ /N ₂ Flow Ratio of Silicon Nitride Deposited by Electron Cyclotron Resonance Plasmas. Journal of the Electrochemical Society, 1994, 141, 3234-3237.	2.9	16
18	Compositional and electrical properties of ECR-CVD silicon oxynitrides. Semiconductor Science and Technology, 1997, 12, 927-932.	2.0	14

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19	Predicting the Future Capacity and Dimensions of Container Ships. Transportation Research Record, 2020, 2674, 177-190.	1.9	14
20	Setup of a communication and control systems of a quadrotor type Unmanned Aerial Vehicle. , 2014, , .		13
21	Direct Writing Laser Doping from Spunâ€On Glasses. Journal of the Electrochemical Society, 1991, 138, 3039-3042.	2.9	12
22	ALO: An ultrasound system for localization and orientation based on angles. Microelectronics Journal, 2013, 44, 959-967.	2.0	12
23	An 8-mm diameter fibre robot positioner for massive spectroscopy surveys. Monthly Notices of the Royal Astronomical Society, 2015, 450, 794-806.	4.4	12
24	Parametrizable Fixed-Point Arithmetic for HIL With Small Simulation Steps. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2467-2475.	5.4	12
25	Laser-assisted recrystallization to improve the surface morphology of CdTe epitaxial layers. Semiconductor Science and Technology, 1996, 11, 248-251.	2.0	11
26	Observable Variables in Thermoelectric Phenomena. Journal of Physical Chemistry B, 2002, 106, 10722-10724.	2.6	11
27	Peltierâ€™s and Thomsonâ€™s coefficients of thermoelectric phenomena in the observable formulation. Journal of Physics Condensed Matter, 2009, 21, 155802.	1.8	11
28	Environment mapping using a 3D laser scanner for unmanned ground vehicles. Microprocessors and Microsystems, 2015, 39, 939-949.	2.8	11
29	Amorphous SiC layers deposited by electron cyclotron resonance plasma: spectroscopic ellipsometric measurements. Journal of Non-Crystalline Solids, 1995, 191, 164-173.	3.1	10
30	Feature Compensation Techniques for ASR on Band-Limited Speech. IEEE Transactions on Audio Speech and Language Processing, 2009, 17, 758-774.	3.2	10
31	New Method for Evaluating the Peltier Coefficient Based on Temperature Measurements in a Thermoelectric Module. Journal of Electronic Materials, 2012, 41, 1990-1995.	2.2	10
32	Word length selection method for HIL power converter models. International Journal of Electrical Power and Energy Systems, 2021, 129, 106721.	5.5	10
33	Thermal testing on programmable logic devices. , 0, , .		9
34	Low cost indoor ultrasonic positioning implemented in FPGA. , 2009, , .		9
35	A mobile biometric system-on-token system for signing digital transactions. IEEE Security and Privacy, 2010, 8, 13-19.	1.2	9
36	Analysis of Resolution in Feedback Signals for Hardware-in-the-Loop Models of Power Converters. Electronics (Switzerland), 2019, 8, 1527.	3.1	9

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37	Rapid solid phase crystallization of nanocrystalline silicon deposited by electron cyclotron plasma chemical vapor deposition. Applied Physics Letters, 1996, 69, 1873-1875.	3.3	8
38	Passivation, structural modification, and etching of amorphous silicon in hydrogen plasmas. Journal of Applied Physics, 1997, 81, 7612-7618.	2.5	8
39	Thermodynamics of Electrochemical Systems. Journal of Physical Chemistry B, 2004, 108, 18336-18340.	2.6	8
40	Electrical properties of electron cyclotron resonance plasma-deposited silicon dioxide: effect of the oxygen to silane flow ratio. Semiconductor Science and Technology, 1996, 11, 422-426.	2.0	7
41	RBS and ERD characterization of SiON films for optical waveguide applications. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 440-444.	1.4	7
42	Path length comparison in grid maps of planning algorithms: HCTNav, A* and Dijkstra. , 2014, , .		7
43	The central role of the Peltier coefficient in thermoelectric cooling. Journal of Applied Physics, 2014, 115, 123517.	2.5	7
44	Energy-Saver Mobile Manipulator Based on Numerical Methods. Electronics (Switzerland), 2019, 8, 1100.	3.1	7
45	On the exploitation of thermally stimulated capacitance measurements. Journal Physics D: Applied Physics, 1984, 17, 2047-2051.	2.8	6
46	Rapid Thermal Annealing Behavior of Amorphous SiC Layers Deposited by Electron Cyclotron Resonance Plasma. Journal of the Electrochemical Society, 1996, 143, 271-277.	2.9	6
47	Multirobot Heterogeneous Control Considering Secondary Objectives. Sensors, 2019, 19, 4367.	3.8	6
48	Photoluminescence in Gallium Arsenide irradiated with thermal neutrons. Physica Status Solidi A, 1981, 65, 103-106.	1.7	5
49	Channel waveguides grown by selective area chemical beam epitaxy. Optical Materials, 2001, 17, 259-262.	3.6	5
50	A generic software platform for controlling collaborative robotic system using XML-RPC. , 0, , .		5
51	FPGA-based embedded system for ultrasonic positioning. , 2010, , .		5
52	LOCOFloat: A Low-Cost Floating-Point Format for FPGAs.: Application to HIL Simulators. Electronics (Switzerland), 2020, 9, 81.	3.1	5
53	Heat and work fluxes in thermoelectric coolers. Thermal Science and Engineering Progress, 2021, 22, 100817.	2.7	5
54	Electronic defect levels in continuous wave laser annealed silicon metal oxide semiconductor devices. Journal of Applied Physics, 1988, 64, 3079-3084.	2.5	4

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55	Silicon Oxynitride ECR-PECVD Films for Integrated Optics. Materials Science Forum, 2005, 480-481, 149-154.	0.3	4
56	Proprioception in the ACL-ruptured knee: The contribution of the medial collateral ligament and patellar ligament. An in vivo experimental study in the cat. Knee, 2007, 14, 39-45.	1.6	4
57	Modeling of power converters for debugging digital controllers through FPGA emulation. , 2013, , .		4
58	Inter-observer Reliability and Agreement Study on Early Diagnosis of Diabetic Retinopathy and Diabetic Macular Edema Risk. Lecture Notes in Computer Science, 2016, , 369-379.	1.3	4
59	Thomson Power in the Model of Constant Transport Coefficients for Thermoelectric Elements. Journal of Electronic Materials, 2019, 48, 5821-5826.	2.2	4
60	AC Mains Synchronization Loop for Precalculated- Based PFC Converters Using the Output Voltage Measure. Electronics (Switzerland), 2019, 8, 4.	3.1	4
61	Syllable lattices as a basis for a children's speech reading tracker. , 0, , .		4
62	Electron microscopy observations of N2+ -implanted TiN films as diffusion barriers for very-large-scale integration applications. Thin Solid Films, 1986, 140, 173-176.	1.8	3
63	Samarium as a Schottky barrier on p-type-silicon. Solid-State Electronics, 1986, 29, 1267-1270.	1.4	3
64	Scanning electron beam annealing of sputter-deposited titanium on silicon. Nuclear Instruments & Methods in Physics Research B, 1996, 118, 733-738.	1.4	3
65	Development of Transportation Asset Management and Data Collection System (TAMS) Using Mobile Applications. Procedia Engineering, 2016, 161, 1180-1186.	1.2	3
66	Handling input voltage frequency variations in power factor correctors with pre-calculated duty cycles. Electrical Engineering, 2018, 100, 27-38.	2.0	3
67	Growth solution baking effects on the residual impurities in GaAs liquidâ€phaseâ€epitaxy layers. Journal of Applied Physics, 1984, 56, 569-571.	2.5	2
68	Electron cyclotron resonance plasma deposition as a promising technique for low-temperature hard coatings. Vacuum, 1994, 45, 1023-1025.	3.5	2
69	Low temperature Electron Cyclotron Resonance plasma technique for low loss integrated optics. Microelectronic Engineering, 2000, 53, 407-410.	2.4	2
70	Unsupervised Class-Based Feature Compensation for Time-Variable Bandwidth-Limited Speech. , 0, , .		2
71	Comparison of AC mains synchronization methods when using precalculated duty cycles in Power Factor Correction. , 2014, , .		2
72	Handling input voltage frequency variations in power factor correctors with precalculated duty cycles. , 2014, , .		2

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73	ALO4: Angle Localization and Orientation System with Four Receivers. International Journal of Advanced Robotic Systems, 2014, 11, 152.	2.1	2
74	NafisNav: An indoor navigation algorithm for embedded systems and based on grid maps. , 2015, , .		2
75	Hardware-in-the-loop using parametrizable fixed point notation. , 2016, , .		2
76	Comparison of communication architectures for a fiber-positioning spectrograph. Journal of Astronomical Telescopes, Instruments, and Systems, 2019, 5, 1.	1.8	2
77	Electrical characteristics of aligned and transversally recrystallized SOI-MOS transistors. Solid-State Electronics, 1992, 35, 1447-1450.	1.4	1
78	Temperature evolution during scanning electron beam processing of silicon. Applied Physics A: Materials Science and Processing, 1996, 62, 451-457.	2.3	1
79	Hydrogen Incorporation and Crystallization of Nanocrystalline Silicon Deposited by Electron Cyclotron Resonance Plasmas. Journal of the Electrochemical Society, 1999, 146, 1966-1970.	2.9	1
80	Single ADC single loop power factor correction using pre-calculated duty cycles. , 2013, , .		1
81	Angle localization and orientation system with 4 receivers and based on audible sound signals. , 2014, , .		1
82	Full Skeleton-based Virtual Human Animation: An Improved Design for SL Avatars. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2017, 34, 11-21.	3.2	1
83	Tutor Informatico: Increasing the Selfteaching in Down Syndrome People. Lecture Notes in Computer Science, 2004, , 202-205.	1.3	1
84	Argon-ion bombardment effects on the electrical characteristics of platinum-silicon Schottky diodes. Electronics Letters, 1979, 15, 815.	1.0	0
85	Deep centers in neutron-transmutation-doped gallium arsenide. Solid-State Electronics, 1985, 28, 1039-1043.	1.4	0
86	Title is missing!. Journal of Materials Science: Materials in Electronics, 1999, 10, 393-398.	2.2	0
87	Open and Reconfigurable System on Chip Architecture with Hardware and Software Preprocessing Capabilities Used for Remote Image Acquisition. , 2008, , .		0
88	Implementing a multisensory robotic platform for building collaborative monitored robots. , 2014, , .		0
89	A varying density 3D laser scanner for unmanned ground vehicles mapping and obstacle detection. , 2014, , .		0
90	Development of an online platform for hardware-based laboratories in Engineering studies. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
91	HALO4: Horizontal Angle Localization and Orientation System with 4 Receivers and Based on Ultrasounds. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 82, 595-607.	3.4	0
92	Automated Detection of Diabetic Macular Edema Risk in Fundus Images. Lecture Notes in Computer Science, 2016, , 380-390.	1.3	0
93	Performance of an Open Multi-Agent Remote Sensing Architecture Based on XML-RPC in Low-Profile Embedded Systems. Advances in Intelligent and Soft Computing, 2009, , 520-528.	0.2	0
94	Communication architecture system for fiber positioning of DESI spectrograph. Proceedings of SPIE, 2016, , .	0.8	0