

Roberto Marani

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.

89
papers

976
citations

19
h-index

27
g-index

115
ext. papers

1,451
ext. citations

2.4
avg, IF

5.05
L-index

#	Paper	IF	Citations
89	Study of CNTFETs as Memory Devices. <i>ECS Journal of Solid State Science and Technology</i> , 2022 , 11, 031001	2	0
88	Analysis of Noise in Current Mirror Circuits Based on CNTFET and MOSFET. <i>ECS Journal of Solid State Science and Technology</i> , 2022 , 11, 031006	2	0
87	Ambient Assisted Living: A Review of Technologies, Methodologies and Future Perspectives for Healthy Aging of Population. <i>Sensors</i> , 2021 , 21,	3.8	26
86	Analysis of Limits of CNTFET Devices through the Design of a Differential Amplifier. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 061009	2	3
85	Deep neural networks for grape bunch segmentation in natural images from a consumer-grade camera. <i>Precision Agriculture</i> , 2021 , 22, 387-413	5.6	12
84	3D Vision-Based Shelf Monitoring System for Intelligent Retail. <i>Lecture Notes in Computer Science</i> , 2021 , 447-459	0.9	1
83	Human Gait Analysis in Neurodegenerative Diseases: a Review. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , PP,	7.2	10
82	A Convolution Residual Network for Heating-Invariant Defect Segmentation in Composite Materials Inspected by Lock-in Thermography. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 1-1	5.2	0
81	Recurrent and convolutional neural networks for deep terrain classification by autonomous robots. <i>Journal of Terramechanics</i> , 2021 , 96, 119-131	2.2	3
80	Deep learning for defect characterization in composite laminates inspected by step-heating thermography. <i>Optics and Lasers in Engineering</i> , 2021 , 145, 106679	4.6	12
79	Impact of Technology on CNTFET-Based Circuits Performance. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 051001	2	2
78	Internet of Robotic Things in Smart Domains: Applications and Challenges. <i>Sensors</i> , 2020 , 20,	3.8	38
77	Techniques to Improve the Performance in the CNTFET-Based Analogue Circuit Design. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 031001	2	0
76	Editors' Choice Effects of Parasitic Elements of Interconnection Lines in CNT Embedded Integrated Circuits. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 021004	2	3
75	Review Performance Evaluation of CNTFET-Based Digital Circuits: A Review. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 051007	2	
74	Towards Intelligent Retail: Automated on-Shelf Availability Estimation Using a Depth Camera. <i>IEEE Access</i> , 2020 , 8, 19353-19363	3.5	4
73	Review Performance Evaluation of CNTFET-Based Analog Circuits: A Review. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 061015	2	0

72	Laser Profilometry Aiding Smart Vehicle Control. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2020 , 7, 1-6	0.4	
71	A Comparison of CNTFET and CMOS Technology through the Design of a SRAM Cell. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, M1-M18	2	4
70	A Design Technique of CNTFET-Based Ternary Logic Gates in Verilog-A. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, M45-M52	2	7
69	A Formula to Determine Energy Band Gap in Semiconducting Carbon Nanotubes. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, M19-M21	2	9
68	Three-Levels Logic Gates Design Based on CNTFETs. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, M67-M70	2	1
67	A Review on the Study of Temperature Effects in the Design of A/D Circuits based on CNTFET. <i>Current Nanoscience</i> , 2019 , 15, 471-480	1.4	6
66	Deep learning-based image segmentation for grape bunch detection 2019 ,		1
65	Disparity Image Analysis for 3D Characterization of Surface Anomalies. <i>Lecture Notes in Computer Science</i> , 2019 , 14-23	0.9	
64	Design of CNTFETs Operating in High Speed Sub-Threshold Condition for Ultra-Low Power Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, M93-M101	2	1
63	Enhancing defects characterization in pulsed thermography by noise reduction. <i>NDT and E International</i> , 2019 , 102, 226-233	4.1	14
62	People re-identification using skeleton standard posture and color descriptors from RGB-D data. <i>Pattern Recognition</i> , 2019 , 89, 77-90	7.7	24
61	In-field high throughput grapevine phenotyping with a consumer-grade depth camera. <i>Computers and Electronics in Agriculture</i> , 2019 , 156, 293-306	6.5	56
60	Effects of Temperature in CNTFET-Based Design of Analog Circuits. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, M16-M21	2	13
59	Effects of Temperature on Switching Time and Power Dissipation of CNTFET-Based Digital Circuits. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, M63-M68	2	3
58	Effects of Temperature in CNTFET-Based Design of Digital Circuits. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, M41-M48	2	11
57	Modeling and classification of defects in CFRP laminates by thermal non-destructive testing. <i>Composites Part B: Engineering</i> , 2018 , 135, 129-141	10	31
56	Design and Simulation Study of Full Adder Circuit Based on CNTFET and CMOS Technology by ADS. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, M108-M122	2	4
55	Anomalous Human Behavior Detection Using a Network of RGB-D Sensors. <i>Lecture Notes in Computer Science</i> , 2018 , 3-14	0.9	

54	Variation of I_{D0} characteristics due to process parameters as base for modeling the component variability for LDD MOSFET devices. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2018 , 09, 1850015	0.8	
53	Convolutional Neural Networks Based Ball Detection in Tennis Games 2018 ,		15
52	Effects of Temperature Dependence of Energy Bandgap on I_{D0} Characteristics in CNTFETs Models. <i>International Journal of Nanoscience</i> , 2017 , 16, 1750009	0.6	6
51	CNTFET-Based Design of Current Mirror in Comparison with MOS Technology. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M60-M68	2	5
50	A Compact Noise Model for C-CNTFETs. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M44-M49		9
49	A Powerline-Tuned Camera Trigger for AC Illumination Flickering Reduction. <i>IEEE Embedded Systems Letters</i> , 2017 , 9, 97-100	1	4
48	Two-dimensional cross-correlation for defect detection in composite materials inspected by lock-in thermography 2017 ,		2
47	Performance Analysis of Gesture Recognition Classifiers for Building a Human Robot Interface. <i>Lecture Notes in Computer Science</i> , 2017 , 60-72	0.9	
46	A Comparison of CNTFET Models through the Design of a SRAM Cell. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, M118-M126	2	12
45	Automatic detection of subsurface defects in composite materials using thermography and unsupervised machine learning 2016 ,		12
44	Recent trends in gesture recognition: how depth data has improved classical approaches. <i>Image and Vision Computing</i> , 2016 , 52, 56-72	3.7	35
43	A DC Thermal Model of Carbon Nanotube Field Effect Transistors for CAD Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, M3001-M3004	2	10
42	Analysis of CNTFETs Operating in SubThreshold Region for Low Power Digital Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, M1-M4	2	23
41	Design of a Low-Cost Vision System for Laser Profilometry Aiding Smart Vehicles Movement. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 17-27	0.4	4
40	An Application of the Frame Theory for Signature Extraction in the Analysis of 3D Point Clouds. <i>Smart Sensors, Measurement and Instrumentation</i> , 2016 , 289-310	0.3	
39	A Comparison of Temperature Dependence of I-V Characteristics in CNTFETs Models. <i>Current Nanomaterials</i> , 2016 , 1, 61-68	1.3	3
38	A Modified Iterative Closest Point Algorithm for 3D Point Cloud Registration. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016 , 31, 515-534	8.4	34
37	A De-Embedding Procedure to Determine the Equivalent Circuit Parameters of RF CNTFETs. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, M31-M34	2	16

36	A Simulation Study of Analogue and Logic Circuits with CNTFETs. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, M38-M43	2	23
35	A compact 3D omnidirectional range sensor of high resolution for robust reconstruction of environments. <i>Sensors</i> , 2015 , 15, 2283-308	3.8	6
34	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 3482-3495	6.1	10
33	A Likelihood-Based Background Model for Real Time Processing of Color Filter Array Videos. <i>Lecture Notes in Computer Science</i> , 2015 , 218-225	0.9	1
32	Automated Extraction of Archaeological Traces by a Modified Variance Analysis. <i>Remote Sensing</i> , 2015 , 7, 3565-3587	5	9
31	An Improved ANOVA Algorithm for Crop Mark Extraction from Large Aerial Images Using Semantics. <i>Lecture Notes in Computer Science</i> , 2015 , 591-603	0.9	1
30	Design of High-Resolution Optical Systems for Fast and Accurate Surface Reconstruction. <i>Smart Sensors, Measurement and Instrumentation</i> , 2015 , 47-65	0.3	1
29	A Model to Improve Analysis of CNTFET Logic Gates in Verilog-A-Part I: Static Analysis. <i>Current Nanoscience</i> , 2015 , 11, 515-526	1.4	26
28	A Model to Improve Analysis of CNTFET Logic Gates in Verilog-A - Part II: Dynamic Analysis. <i>Current Nanoscience</i> , 2015 , 11, 770-783	1.4	25
27	An Active CNTFET Model for RF Characterization Deduced from S Parameters Measurements. <i>Current Nanoscience</i> , 2014 , 11, 36-40	1.4	4
26	An adaptive parallel background model for high-throughput video applications and smart cameras embedding 2014 ,		4
25	Modelling of CNTFETs for Computer Aided Design of A/D Electronic Circuits. <i>Current Nanoscience</i> , 2014 , 10, 326-333	1.4	5
24	A 3D vision system for high resolution surface reconstruction 2013 ,		8
23	Modelling of Carbon Nanotube Field Effect Transistors oriented to SPICE software for A/D circuit design. <i>Microelectronics Journal</i> , 2013 , 44, 33-38	1.8	37
22	Emission and Transmission Properties of a Doubly Resonant 3D Nanodisk Yagi-Uda Antenna for Wireless Optical Communications. <i>Plasmonics</i> , 2013 , 8, 173-183	2.4	2
21	High-Resolution Laser Scanning for Three-Dimensional Inspection of Drilling Tools. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 620786	1.2	10
20	Gain-assisted extraordinary optical transmission through periodic arrays of subwavelength apertures. <i>New Journal of Physics</i> , 2012 , 14, 013020	2.9	21
19	A DC model of carbon nanotube field effect transistor for CAD applications. <i>International Journal of Electronics</i> , 2012 , 99, 437-444	1.2	34

18	Plasmonic Bandgaps in 1D Arrays of Slits on Metal Layers Excited by Out-of-Plane Sources. <i>International Journal of Optics</i> , 2012 , 2012, 1-12	0.9	7
17	Novel Plasmonic Bio-Sensing System Based on Two-Dimensional Gold Patch Arrays for Linear and Nonlinear Regimes. <i>Advances in Science and Technology</i> , 2012 , 81, 15-19	0.1	
16	Comparison of ABM SPICE Library with Verilog-A for Compact CNTFET Model Implementation. <i>Current Nanoscience</i> , 2012 , 8, 556-565	1.4	38
15	A Semiempirical SPICE Model for n-Type Conventional CNTFETs. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 506-512	2.6	44
14	Experimental demonstration of a novel bio-sensing platform via plasmonic band gap formation in gold nano-patch arrays. <i>Optics Express</i> , 2011 , 19, 21385-95	3.3	30
13	Plasmonic bandgap formation in two-dimensional periodic arrangements of gold patches with subwavelength gaps. <i>Optics Letters</i> , 2011 , 36, 903-5	3	18
12	RESONANCE WAVELENGTH DEPENDENCE AND MODE FORMATION IN GOLD NANOROD OPTICAL ANTENNAS WITH FINITE THICKNESS. <i>Progress in Electromagnetics Research B</i> , 2011 , 30, 337-353	0.7	8
11	Enhancement and suppression of transmission in 3D nanoslits arrays with 1- and 2D periodicities 2011 ,		3
10	A Compact, Semi-empirical Model of Carbon Nanotube Field Effect Transistors Oriented to Simulation Software. <i>Current Nanoscience</i> , 2011 , 7, 245-253	1.4	41
9	Asymmetric plasmonic grating for optical sensing of thin layers of organic materials. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 1056-1062	8.5	32
8	Enhancement of Extraordinary Optical Transmission in a Double Heterostructure Plasmonic Bandgap Cavity. <i>Plasmonics</i> , 2011 , 6, 469-476	2.4	11
7	Modification of the scattering of silver nanoparticles induced by Fabry-Pérot resonances rising from a finite Si layer. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 015004	1.7	6
6	A New System for Continuous Monitoring of Breathing and Kinetic Activity. <i>Journal of Sensors</i> , 2010 , 2010, 1-6	2	8
5	Plasmonic nanostructures for enhanced light concentration devoted to photovoltaic applications 2010 ,		1
4	Fast and Accurate Investigation of 2-D Multilayered Photonic Crystals by a 3-D Model Based on the Green's Function. <i>IEEE Journal of Quantum Electronics</i> , 2010 , 46, 1549-1560	2	0
3	High quality heart and lung auscultation system for diagnostic use on remote patients in real time. <i>Open Biomedical Engineering Journal</i> , 2010 , 4, 250-6	0.9	3
2	CNTFET Modelling for Electronic Circuit Design. <i>ECS Transactions</i> , 2009 , 23, 429-437	1	3
1	Investigation of a point-like and plane-wave excitation in 2D photonic bandgap microcavities using Green's function method. <i>Optical and Quantum Electronics</i> , 2009 , 41, 255-265	2.4	1

