

Vincenzo Vinciguerra

List of Publications by Year in descending order

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61
papers

2,110
citations

394421

19
h-index

434195

31
g-index

63
all docs

63
docs citations

63
times ranked

2369
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and evaluation of current transport properties of power SiC Schottky diode. Materials Today: Proceedings, 2022, 53, 285-288.	1.8	4
2	Wafer Bifurcation as a Spontaneous Symmetry Breaking. , 2022, , .		3
3	Failure Strength Analysis and Young Modulus Assessment of 4H-SiC through a Ball on Ring Test. , 2022, , .		0
4	From Wafer Bifurcation to Warpage Die: a Correlation Method to determine the Warpage of a Metal-Coated Silicon Substrate. , 2022, , .		3
5	Models of Bifurcation in a Semiconductor Wafer: A Comparison of the Analytical Solution vs. the ANSYS Finite Element Analysis. , 2022, , .		4
6	Prediction of state anxiety by machine learning applied to photoplethysmography data. PeerJ, 2021, 9, e10448.	2.0	21
7	Failure Strength Weibull Analysis of 4H-SiC Die through a 3-PB test. , 2021, , .		3
8	On the Way to understand the Warpage in 8â€•Taiko Semiconductor Wafers for Power Electronics Applications (Si and SiC). , 2021, , .		6
9	Power losses comparison between Silicon Carbide and Silicon devices for an isolated DC-DC converter. , 2021, , .		7
10	Convolutional neural network model for Augmentation Index prediction based on photoplethysmography. , 2021, , .		0
11	Photoplethysmographic Prediction of the Ankle-Brachial Pressure Index through a Machine Learning Approach. Applied Sciences (Switzerland), 2020, 10, 2137.	2.5	21
12	Low invasive multisensor acquisition system for real-time monitoring of cardiovascular and respiratory parameters. , 2020, , .		5
13	Fiberless, Multi-Channel fNIRS-EEG System Based on Silicon Photomultipliers: Towards Sensitive and Ecological Mapping of Brain Activity and Neurovascular Coupling. Sensors, 2020, 20, 2831.	3.8	18
14	The "first and euRopEAn siC eight Inches piLOt liNe": a project, called REACTION, that will boost key SiC Technologies upgrading (developments) in Europe, unleashing Applications in the Automotive Power Electronics Sector. , 2020, , .		14
15	Integrated Multi-channel PPG and ECG System for Cardiovascular Risk Assessment. Proceedings (mdpi), 2019, 27, 8.	0.2	4
16	Wearable, Fiber-less, Multi-Channel System for Continuous Wave Functional Near Infrared Spectroscopy Based on Silicon Photomultipliers Detectors and Lock-In Amplification. , 2019, 2019, 60-66.		2
17	PPG/ECG Multisite Combo System Based on SiPM Technology. Lecture Notes in Electrical Engineering, 2019, , 353-360.	0.4	19
18	Multi-Site Photoplethysmographic and Electrocardiographic System for Arterial Stiffness and Cardiovascular Status Assessment. Sensors, 2019, 19, 5570.	3.8	18

#	ARTICLE	IF	CITATIONS
19	Power Packages Interconnections for High Reliability Automotive Applications. , 2019, , .		13
20	Stretchable wireless system for sweat pH monitoring. Biosensors and Bioelectronics, 2018, 107, 192-202.	10.1	247
21	Amperometric Biosensor and Front-End Electronics for Remote Glucose Monitoring by Crosslinked PEDOT-Glucose Oxidase. IEEE Sensors Journal, 2018, 18, 4869-4878.	4.7	29
22	Piezoelectric graphene field effect transistor pressure sensors for tactile sensing. Applied Physics Letters, 2018, 113, .	3.3	86
23	Printable stretchable interconnects. Flexible and Printed Electronics, 2017, 2, 013003.	2.7	141
24	Active implant for optoacoustic natural sound enhancement. , 2017, , .		0
25	Simulation study of junctionless silicon nanoribbon FET for high-performance printable electronics. , 2017, , .		4
26	Stretchable pH sensing patch in a hybrid package. , 2017, , .		3
27	Bending effects in a flexible dual gated graphene FET: A Verilog-A model implementation. , 2017, , .		4
28	Graphene gold nanoparticle hybrid based near infrared photodetector. , 2017, , .		2
29	Progresses towards a processing pipeline in photoplethysmogram (PPG) based on SiPMs. , 2017, , .		17
30	Hybrid structure of stretchable interconnect for reliable E-skin application. , 2017, , .		2
31	Silicon photomultipliers with embedded optical filters for wearable healthcare applications. , 2017, , .		1
32	Nanowire FET Based Neural Element for Robotic Tactile Sensing Skin. Frontiers in Neuroscience, 2017, 11, 501.	2.8	97
33	Advances in the fabrication of graphene transistors on flexible substrates. Beilstein Journal of Nanotechnology, 2017, 8, 467-474.	2.8	20
34	Advances in the Fabrication of Large-Area Back-Gated Graphene Field-Effect Transistors on Plastics: Platform for Flexible Electronics and Sensing. Carbon Nanostructures, 2017, , 125-136.	0.1	0
35	Metal-organic Dual Layer Structure for Stretchable Interconnects. Procedia Engineering, 2016, 168, 1559-1562.	1.2	5
36	A Compact SPICE Model for Organic TFTs and Applications to Logic Circuit Design. IEEE Nanotechnology Magazine, 2016, 15, 754-761.	2.0	16

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37	Water-gated organic transistors on polyethylene naphthalate films. Flexible and Printed Electronics, 2016, 1, 025005.	2.7	14
38	Stretchable resistive pressure sensor based on CNT-PDMS nanocomposites. , 2015, , .		14
39	Water stable organic thin film transistors (TFTs) made on flexible substrates. , 2015, , .		1
40	Stretchable interconnects using screen printed nanocomposites of MWCNTs with PDMS and P(VDF-TrFE). , 2015, , .		5
41	Tuning electrical conductivity of CNT-PDMS nanocomposites for flexible electronic applications. , 2015, , .		8
42	Flexible and conformable strain gauges for smart pressure sensors systems: Static and dynamic characterization. , 2015, , .		0
43	A compact Spice model for organic TFTs and applications to logic circuit design. , 2015, , .		6
44	AlN texturing and piezoelectricity on flexible substrates for sensor applications. Applied Physics Letters, 2015, 106, .	3.3	33
45	pH sensing properties of graphene solution-gated field-effect transistors. Journal of Applied Physics, 2013, 114, .	2.5	88
46	Ferroelectric transistor memory arrays on flexible foils. Organic Electronics, 2013, 14, 1966-1971.	2.6	33
47	Printed Organic Electronic Technology Platform Enabling the Design and Manufacturing of Integrated Circuits Towards Plastic Microprocessors. Micro and Nanosystems, 2010, 2, 1-14.	0.6	4
48	Modeling the gate bias dependence of contact resistance in staggered polycrystalline organic thin film transistors. Organic Electronics, 2009, 10, 1074-1081.	2.6	50
49	Fabrication of CNT interconnect structures and active devices using laser beam manipulation and deposition. , 2008, , .		0
50	Growth of carbon nanotubes by Fe-catalyzed chemical vapor processes on silicon-based substrates. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 11-15.	2.7	10
51	Analytical tight-binding calculations for optical absorption in single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2004, 241, 2599-2606.	1.5	0
52	Growth mechanisms in chemical vapour deposited carbon nanotubes. Nanotechnology, 2003, 14, 655-660.	2.6	83
53	Role of the energy transfer in the optical properties of undoped and Er-doped interacting Si nanocrystals. Journal of Applied Physics, 2001, 89, 264-272.	2.5	300
54	Excitation and non-radiative de-excitation processes in Er-doped Si nanocrystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 81, 9-15.	3.5	35

#	ARTICLE	IF	CITATIONS
55	Influence of the spatial arrangement on the quantum confinement properties of Si nanocrystals. Optical Materials, 2001, 17, 51-55.	3.6	12
56	Enhanced rare earth luminescence in silicon nanocrystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 335-339.	3.5	28
57	Room-temperature luminescence from rare-earth ions implanted into Si nanocrystals. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 719-728.	0.6	11
58	Er ³⁺ ions-Si nanocrystals interactions and their effects on the luminescence properties. Applied Physics Letters, 2000, 76, 2167-2169.	3.3	123
59	Quantum confinement and recombination dynamics in silicon nanocrystals embedded in Si/SiO ₂ superlattices. Journal of Applied Physics, 2000, 87, 8165-8173.	2.5	184
60	The excitation mechanism of rare-earth ions in silicon nanocrystals. Applied Physics A: Materials Science and Processing, 1999, 69, 3-12.	2.3	229
61	Carbon Nanotubes Grown by Catalytic CVD on Silicon Based Substrates for Electronics Applications. Materials Science Forum, 0, 539-543, 669-674.	0.3	0