Vincenzo Vinciguerra

List of Publications by Year
in descending order

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61	2,110	394421	434195
papers	citations	19 h-index	31 g-index

63	63	63	2369
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Stretchable wireless system for sweat pH monitoring. Biosensors and Bioelectronics, 2018, 107, 192-202.	10.1	247
3	The excitation mechanism of rare-earth ions in silicon nanocrystals. Applied Physics A: Materials Science and Processing, 1999, 69, 3-12.	2.3	229
4	Quantum confinement and recombination dynamics in silicon nanocrystals embedded in Si/SiO2 superlattices. Journal of Applied Physics, 2000, 87, 8165-8173.	2.5	184
5	Printable stretchable interconnects. Flexible and Printed Electronics, 2017, 2, 013003.	2.7	141
6	Er3+â€‚ionsâ€“Si nanocrystals interactions and their effects on the luminescence properties. Applied Physics Letters, 2000, 76, 2167-2169.	3.3	123
7	Nanowire FET Based Neural Element for Robotic Tactile Sensing Skin. Frontiers in Neuroscience, 2017, 11, 501.	2.8	97
8	pH sensing properties of graphene solution-gated field-effect transistors. Journal of Applied Physics, 2013, 114, .	2.5	88
9	Piezoelectric graphene field effect transistor pressure sensors for tactile sensing. Applied Physics Letters, 2018, 113, .	3.3	86
10	Growth mechanisms in chemical vapour deposited carbon nanotubes. Nanotechnology, 2003, 14, 655-660.	2.6	83
11	Modeling the gate bias dependence of contact resistance in staggered polycrystalline organic thin film transistors. Organic Electronics, 2009, 10, 1074-1081.	2.6	50
12	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
13	Ferroelectric transistor memory arrays on flexible foils. Organic Electronics, 2013, 14, 1966-1971.	2.6	33
14	AlN texturing and piezoelectricity on flexible substrates for sensor applications. Applied Physics Letters, 2015, 106, .	3.3	33
15	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
16	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
17	Photoplethysmographic Prediction of the Ankle-Brachial Pressure Index through a Machine Learning Approach. Applied Sciences (Switzerland), 2020, 10, 2137.	2.5	21
18	Prediction of state anxiety by machine learning applied to photoplethysmography data. PeerJ, 2021, 9, e10448.	2.0	21

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19	Advances in the fabrication of graphene transistors on flexible substrates. Beilstein Journal of Nanotechnology, 2017, 8, 467-474.	2.8	20
20	PPG/ECG Multisite Combo System Based on SiPM Technology. Lecture Notes in Electrical Engineering, 2019, , 353-360.	0.4	19
21	Multi-Site Photoplethysmographic and Electrocardiographic System for Arterial Stiffness and Cardiovascular Status Assessment. Sensors, 2019, 19, 5570.	3.8	18
22	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
23	Progresses towards a processing pipeline in photoplethysmogram (PPG) based on SiPMs. , 2017, , .		17
24	A Compact SPICE Model for Organic TFTs and Applications to Logic Circuit Design. IEEE Nanotechnology Magazine, 2016, 15, 754-761.	2.0	16
25	Stretchable resistive pressure sensor based on CNT-PDMS nanocomposites. , 2015, , .		14
26	Water-gated organic transistors on polyethylene naphthalate films. Flexible and Printed Electronics, 2016, 1, 025005.	2.7	14
27	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
28	Power Packages Interconnections for High Reliability Automotive Applications. , 2019, , .		13
29	Influence of the spatial arrangement on the quantum confinement properties of Si nanocrystals. Optical Materials, 2001, 17, 51-55.	3.6	12
30	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
31	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
32	Tuning electrical conductivity of CNT-PDMS nanocomposites for flexible electronic applications. , 2015, , .		8
33	Power losses comparison between Silicon Carbide and Silicon devices for an isolated DC-DC converter. , 2021, , .		7
34	A compact Spice model for organic TFTs and applications to logic circuit design. , 2015, , .		6
35	On the Way to understand the Warpage in 8â€•Taiko Semiconductor Wafers for Power Electronics Applications (Si and SiC). , 2021, , .		6
36	Stretchable interconnects using screen printed nanocomposites of MWCNTs with PDMS and P(VDF-TrFE). , 2015, , .		5

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37	Metal-organic Dual Layer Structure for Stretchable Interconnects. Procedia Engineering, 2016, 168, 1559-1562.	1.2	5
38	Low invasive multisensor acquisition system for real-time monitoring of cardiovascular and respiratory parameters. , 2020, , .		5
39	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
40	Simulation study of junctionless silicon nanoribbon FET for high-performance printable electronics. , 2017, , .		4
41	Bending effects in a flexible dual gated graphene FET: A Verilog-A model implementation. , 2017, , .		4
42	Integrated Multi-channel PPG and ECG System for Cardiovascular Risk Assessment. Proceedings (mdpi), 2019, 27, 8.	0.2	4
43	Characterization and evaluation of current transport properties of power SiC Schottky diode. Materials Today: Proceedings, 2022, 53, 285-288.	1.8	4
44	Models of Bifurcation in a Semiconductor Wafer: A Comparison of the Analytical Solution vs. the ANSYS Finite Element Analysis. , 2022, , .		4
45	Stretchable pH sensing patch in a hybrid package. , 2017, , .		3
46	Failure Strength Weibull Analysis of 4H-SiC Die through a 3-PB test. , 2021, , .		3
47	Wafer Bifurcation as a Spontaneous Symmetry Breaking. , 2022, , .		3
48	From Wafer Bifurcation to Warpage Die: a Correlation Method to determine the Warpage of a Metal-Coated Silicon Substrate. , 2022, , .		3
49	Graphene gold nanoparticle hybrid based near infrared photodetector. , 2017, , .		2
50	Hybrid structure of stretchable interconnect for reliable E-skin application. , 2017, , .		2
51	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
52	Water stable organic thin film transistors (TFTs) made on flexible substrates. , 2015, , .		1
53	Silicon photomultipliers with embedded optical filters for wearable healthcare applications. , 2017, , .		1
54	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

#	ARTICLE	IF	CITATIONS
55	Carbon Nanotubes Grown by Catalytic CVD on Silicon Based Substrates for Electronics Applications. Materials Science Forum, 0, 539-543, 669-674.	0.3	0
56	Fabrication of CNT interconnect structures and active devices using laser beam manipulation and deposition. , 2008, , .		0
57	Flexible and conformable strain gauges for smart pressure sensors systems: Static and dynamic characterization. , 2015, , .		0
58	Active implant for optoacoustic natural sound enhancement. , 2017, , .		0
59	Convolutional neural network model for Augmentation Index prediction based on photoplethysmography. , 2021, , .		0
60	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
61	Failure Strength Analysis and Young Modulus Assessment of 4H-SiC through a Ball on Ring Test. , 2022, , .		0