

Giuseppe Cantarella

List of Publications by Year in descending order

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71
papers

1,908
citations

279798

23
h-index

265206

42
g-index

73
all docs

73
docs citations

73
times ranked

2619
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal oxide semiconductor thin-film transistors for flexible electronics. Applied Physics Reviews, 2016, 3, 021303.	11.3	511
2	Biodegradable and Highly Deformable Temperature Sensors for the Internet of Things. Advanced Functional Materials, 2017, 27, 1702390.	14.9	178
3	Stretchable and Conformable Oxide Thin-Film Electronics. Advanced Electronic Materials, 2015, 1, 1400038.	5.1	78
4	Flexible a-IGZO Phototransistor for Instantaneous and Cumulative UVa-Exposure Monitoring for Skin Health. Advanced Electronic Materials, 2016, 2, 1600273.	5.1	59
5	Bio-impedance and circuit parameters: An analysis for tracking fruit ripening. Postharvest Biology and Technology, 2020, 159, 110978.	6.0	58
6	Contact resistance and overlapping capacitance in flexible sub-micron long oxide thin-film transistors for above 100-MHz operation. Applied Physics Letters, 2014, 105, .	3.3	57
7	Photo-Induced Room-Temperature Gas Sensing with a-IGZO Based Thin-Film Transistors Fabricated on Flexible Plastic Foil. Sensors, 2018, 18, 358.	3.8	55
8	Buckled Thin-Film Transistors and Circuits on Soft Elastomers for Stretchable Electronics. ACS Applied Materials & Interfaces, 2017, 9, 28750-28757.	8.0	54
9	Metal-Halide Perovskites for Gate Dielectrics in Field-Effect Transistors and Photodetectors Enabled by PMMA Lift-Off Process. Advanced Materials, 2018, 30, e1707412.	21.0	51
10	Design of Engineered Elastomeric Substrate for Stretchable Active Devices and Sensors. Advanced Functional Materials, 2018, 28, 1705132.	14.9	47
11	Low-temperature spray-deposited indium oxide for flexible thin-film transistors and integrated circuits. Applied Physics Letters, 2015, 106, .	3.3	46
12	Entirely Flexible On-Site Conditioned Magnetic Sensorics. Advanced Electronic Materials, 2016, 2, 1600188.	5.1	38
13	Review of recent trends in flexible metal oxide thin-film transistors for analog applications. Flexible and Printed Electronics, 2020, 5, 033001.	2.7	38
14	Flexible and Printed Electrochemical Immunosensor Coated with Oxygen Plasma Treated SWCNTs for Histamine Detection. Biosensors, 2020, 10, 35.	4.7	38
15	Flexible In-Ga-Zn-O Thin-Film Transistors on Elastomeric Substrate Bent to 2.3% Strain. IEEE Electron Device Letters, 2015, 36, 781-783.	3.9	37
16	Flexible Quasi-Vertical In-Ga-Zn-O Thin-Film Transistor With 300-nm Channel Length. IEEE Electron Device Letters, 2015, 36, 475-477.	3.9	36
17	Development of Flexible Dispense-Printed Electrochemical Immunosensor for Aflatoxin M1 Detection in Milk. Sensors, 2019, 19, 3912.	3.8	36
18	Solution-processed p-type copper(I) thiocyanate (CuSCN) for low-voltage flexible thin-film transistors and integrated inverter circuits. Applied Physics Letters, 2017, 110, 113504.	3.3	33

#	ARTICLE	IF	CITATIONS
19	Ferroelectric-Like Charge Trapping Thin-Film Transistors and Their Evaluation as Memories and Synaptic Devices. <i>Advanced Electronic Materials</i> , 2017, 3, 1700309.	5.1	33
20	Thin-film electronics on active substrates: review of materials, technologies and applications. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 323002.	2.8	33
21	Charge Trapping Mechanism Leading to Sub-60-mV/decade-Swing FETs. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 2789-2796.	3.0	29
22	Campanile Near-Field Probes Fabricated by Nanoimprint Lithography on the Facet of an Optical Fiber. <i>Scientific Reports</i> , 2017, 7, 1651.	3.3	28
23	Flexible InGaZnO TFTs With f_{max} Above 300 MHz. <i>IEEE Electron Device Letters</i> , 2018, 39, 1310-1313.	3.9	26
24	Positive charge trapping phenomenon in n-channel thin-film transistors with amorphous alumina gate insulators. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	23
25	Flexible Screen Printed Aptasensor for Rapid Detection of Furanol: A Comparison of CNTs and AgNPs Effect on Aptasensor Performance. <i>Nanomaterials</i> , 2020, 10, 1167.	4.1	22
26	Supervised binary classification methods for strawberry ripeness discrimination from bioimpedance data. <i>Scientific Reports</i> , 2021, 11, 11202.	3.3	22
27	Flexible In-Ga-Zn-O-Based Circuits With Two and Three Metal Layers: Simulation and Fabrication Study. <i>IEEE Electron Device Letters</i> , 2016, 37, 1582-1585.	3.9	15
28	Gain-Tunable Complementary Common-Source Amplifier Based on a Flexible Hybrid Thin-Film Transistor Technology. <i>IEEE Electron Device Letters</i> , 2017, 38, 1536-1539.	3.9	14
29	Oxide Thin-Film Transistors on Fibers for Smart Textiles. <i>Technologies</i> , 2017, 5, 31.	5.1	14
30	Focused ion beam milling for the fabrication of 160 nm channel length IGZO TFTs on flexible polymer substrates. <i>Flexible and Printed Electronics</i> , 2020, 5, 015007.	2.7	13
31	Improvement of contact resistance in flexible a-IGZO thin-film transistors by CF ₄ /O ₂ plasma treatment. <i>Solid-State Electronics</i> , 2018, 150, 23-27.	1.4	12
32	Design and Validation of a Portable AD5933-Based Impedance Analyzer for Smart Agriculture. <i>IEEE Access</i> , 2021, 9, 63656-63675.	4.2	12
33	Flexible In-Ga-Zn-O Thin-Film Transistors With Sub-300-nm Channel Lengths Defined by Two-Photon Direct Laser Writing. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 3796-3802.	3.0	11
34	Laser-Induced Graphene Electrodes Modified with a Molecularly Imprinted Polymer for Detection of Tetracycline in Milk and Meat. <i>Sensors</i> , 2022, 22, 269.	3.8	11
35	Ge ₂ Sb ₂ Te ₅ p-Type Thin-Film Transistors on Flexible Plastic Foil. <i>Materials</i> , 2018, 11, 1672.	2.9	10
36	5-31-Hz 188- μ W Light-Sensing Oscillator With Two Active Inductors Fully Integrated on Plastic. <i>IEEE Journal of Solid-State Circuits</i> , 2019, 54, 2195-2206.	5.4	9

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37	Fabrication and AC Performance of Flexible Indium-Gallium-Zinc-Oxide Thin-Film Transistors. ECS Transactions, 2019, 90, 55-63.	0.5	9
38	Fabrication, Modeling, and Evaluation of a Digital Output Tilt Sensor With Conductive Microspheres. IEEE Sensors Journal, 2017, 17, 3635-3643.	4.7	8
39	Oxide Thin-Film Electronics on Carbon Fiber Reinforced Polymer Composite. IEEE Electron Device Letters, 2017, 38, 1043-1046.	3.9	8
40	Simple and accurate single transistor technique for parameters extraction from organic and inorganic thin film devices. Organic Electronics, 2018, 63, 376-383.	2.6	8
41	Integration of solution-processed (7,5) SWCNTs with sputtered and spray-coated metal oxides for flexible complementary inverters. , 2014, , .		7
42	Coupling model for an extended-range plasmonic optical transformer scanning probe. Light: Science and Applications, 2014, 3, e195-e195.	16.6	7
43	Radio frequency electronics in a-IGZO TFT technology. , 2016, , .		7
44	3â€“5 V, 3â€“3.8 MHz OOK modulator with a-IGZO TFTs for flexible wireless transmitter. , 2017, , .		6
45	Flexible Green Perovskite Light Emitting Diodes. IEEE Journal of the Electron Devices Society, 2019, 7, 769-775.	2.1	6
46	Cost-effective, mask-less, and high-throughput prototyping of flexible hybrid electronic devices using dispense printing and conductive silver ink. , 2021, , .		6
47	N-type to p-type transition upon phase change in Ge ₆ Sb ₁ Te ₂ compounds. Applied Physics Letters, 2018, 113, .	3.3	4
48	Flexible Dispense-Printed Electrochemical Biosensor for Aflatoxin M1 Detection Employing NaOH and Oxygen Plasma Electrode Pre-treatment. , 2019, , .		4
49	Aluminum oxide as a dielectric and passivation layer for (flexible) metal-oxide and 2D semiconductor devices. , 2021, , .		4
50	Flexible CMOS electronics based on p-type Ge ₂ Sb ₂ Te ₅ and n-type InGaZnO ₄ semiconductors. , 2017, , .		3
51	A PEDOT:PSS/SWCNT-Coated Screen Printed Immunosensor for Histamine Detection in Food Samples. , 2020, , .		3
52	Long-Term Aging of Al ₂ O ₃ Passivated and Unpassivated Flexible a-IGZO TFTs. IEEE Transactions on Electron Devices, 2020, 67, 4934-4939.	3.0	3
53	FruitMeter: An AD5933-Based Portable Impedance Analyzer for Fruit Quality Characterization. , 2020, , .		3
54	Recycled Carbon-based Strain Sensors: An Ecofriendly Approach using Char and Coconut Oil. , 2021, , .		3

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55	The Influence of Climate Conditions and On-Skin Positioning on InGaZnO Thin-Film Transistor Performance. <i>Frontiers in Electronics</i> , 2022, 2, .	3.2	3
56	Digital output flexible tilt sensor with conductive microspheres. , 2015, , .		2
57	Design of bendable high-frequency circuits based on short-channel InGaZnO TFTs. , 2019, , .		2
58	Selection of Cole Model Bio-Impedance Parameters for the Estimation of the Ageing Evolution of Apples. <i>IFMBE Proceedings</i> , 2020, , 25-32.	0.3	2
59	Thermal Stability of Flexible IGZO/Ag Schottky Diodes on Cellulose Microfiber Paper Substrate. , 2021, , .		2
60	Sensors: Entirely Flexible On-site Conditioned Magnetic Sensorics (Adv. Electron. Mater. 8/2016). <i>Advanced Electronic Materials</i> , 2016, 2, .	5.1	1
61	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT. , 2016, , .		1
62	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT. , 2016, , .		1
63	Bendable Printed and Thin-film Electronics for Wireless Communications. , 2018, , .		1
64	Single-Walled Carbon Nanotube-Coated Flexible and Soft Screen-Printed Electrochemical Biosensor for Ochratoxin a Detection. , 2020, , .		1
65	Bendable metal oxide thin-film transistors and circuits for analog electronics applications. , 2021, , .		1
66	Design and simulation of a 800 Mbit/s data link for magnetic resonance imaging wearables. , 2015, 2015, 1323-6.		0
67	Flexible Green Perovskite Light Emitting Diodes. , 2018, , .		0
68	Effects of stair case gate bias stress in IGZO/Al ₂ O ₃ flexible TFTs. <i>Microelectronics Reliability</i> , 2018, 88-90, 882-886.	1.7	0
69	Design and Fabrication of a Pillar-Based Piezoelectric Microphone Exploiting 3D-Printing Technology. , 2021, 5, 1-4.		0
70	Mechanical and Electrical Design Strategies for Flexible InGaZnO Circuits. , 2021, , .		0
71	Oxide Thin-Film Electronics for the Front-End Conditioning of Flexible Magnetic Field Sensors. <i>Minerals, Metals and Materials Series</i> , 2021, , 294-302.	0.4	0