

Giuseppe Cantarella

List of Publications by Citations

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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.

57
papers

1,247
citations

18
h-index

34
g-index

73
ext. papers

1,550
ext. citations

5.1
avg, IF

4.33
L-index

#	Paper	IF	Citations
57	Metal oxide semiconductor thin-film transistors for flexible electronics. <i>Applied Physics Reviews</i> , 2016 , 3, 021303	17.3	380
56	Biodegradable and Highly Deformable Temperature Sensors for the Internet of Things. <i>Advanced Functional Materials</i> , 2017 , 27, 1702390	15.6	116
55	Stretchable and Conformable Oxide Thin-Film Electronics. <i>Advanced Electronic Materials</i> , 2015 , 1, 14000384	3.4	50
54	Flexible a-IGZO Phototransistor for Instantaneous and Cumulative UV-Exposure Monitoring for Skin Health. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600273	6.4	47
53	Contact resistance and overlapping capacitance in flexible sub-micron long oxide thin-film transistors for above 100 MHz operation. <i>Applied Physics Letters</i> , 2014 , 105, 263504	3.4	47
52	Buckled Thin-Film Transistors and Circuits on Soft Elastomers for Stretchable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28750-28757	9.5	40
51	Low-temperature spray-deposited indium oxide for flexible thin-film transistors and integrated circuits. <i>Applied Physics Letters</i> , 2015 , 106, 092105	3.4	38
50	Photo-Induced Room-Temperature Gas Sensing with a-IGZO Based Thin-Film Transistors Fabricated on Flexible Plastic Foil. <i>Sensors</i> , 2018 , 18,	3.8	37
49	Flexible InGaZnO Thin-Film Transistors on Elastomeric Substrate Bent to 2.3% Strain. <i>IEEE Electron Device Letters</i> , 2015 , 36, 781-783	4.4	31
48	Metal-Halide Perovskites for Gate Dielectrics in Field-Effect Transistors and Photodetectors Enabled by PMMA Lift-Off Process. <i>Advanced Materials</i> , 2018 , 30, e1707412	24	30
47	Design of Engineered Elastomeric Substrate for Stretchable Active Devices and Sensors. <i>Advanced Functional Materials</i> , 2018 , 28, 1705132	15.6	29
46	Ferroelectric-Like Charge Trapping Thin-Film Transistors and Their Evaluation as Memories and Synaptic Devices. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700309	6.4	27
45	. <i>IEEE Electron Device Letters</i> , 2015 , 36, 475-477	4.4	27
44	Bio-impedance and circuit parameters: An analysis for tracking fruit ripening. <i>Postharvest Biology and Technology</i> , 2020 , 159, 110978	6.2	27
43	Entirely Flexible On-Site Conditioned Magnetic Sensorics. <i>Advanced Electronic Materials</i> , 2016 , 2, 16001884	3.4	26
42	Solution-processed p-type copper(I) thiocyanate (CuSCN) for low-voltage flexible thin-film transistors and integrated inverter circuits. <i>Applied Physics Letters</i> , 2017 , 110, 113504	3.4	25
41	Charge Trapping Mechanism Leading to Sub-60-mV/decade-Swing FETs. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 2789-2796	2.9	22

40	Campanile Near-Field Probes Fabricated by Nanoimprint Lithography on the Facet of an Optical Fiber. <i>Scientific Reports</i> , 2017 , 7, 1651	4.9	21
39	Development of Flexible Dispense-Printed Electrochemical Immunosensor for Aflatoxin M1 Detection in Milk. <i>Sensors</i> , 2019 , 19,	3.8	18
38	Flexible InGaZnO TFTs With f_{max} Above 300 MHz. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1310-1313	4.4	18
37	Review of recent trends in flexible metal oxide thin-film transistors for analog applications. <i>Flexible and Printed Electronics</i> , 2020 , 5, 033001	3.1	17
36	Positive charge trapping phenomenon in n-channel thin-film transistors with amorphous alumina gate insulators. <i>Journal of Applied Physics</i> , 2016 , 120, 244501	2.5	16
35	Flexible and Printed Electrochemical Immunosensor Coated with Oxygen Plasma Treated SWCNTs for Histamine Detection. <i>Biosensors</i> , 2020 , 10,	5.9	14
34	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	4.4	11
33	Flexible InGaZnO-Based Circuits With Two and Three Metal Layers: Simulation and Fabrication Study. <i>IEEE Electron Device Letters</i> , 2016 , 37, 1582-1585	4.4	10
32	Flexible Screen Printed Aptasensor for Rapid Detection of Furaneol: A Comparison of CNTs and AgNPs Effect on Aptasensor Performance. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
31	Flexible InGaZnO 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	2.9	8
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	3.1	8
29	Fabrication and AC Performance of Flexible Indium-Gallium-Zinc-Oxide Thin-Film Transistors. <i>ECS Transactions</i> , 2019 , 90, 55-63	1	7
28	Simple and accurate single transistor technique for parameters extraction from organic and inorganic thin film devices. <i>Organic Electronics</i> , 2018 , 63, 376-383	3.5	7
27	Coupling model for an extended-range plasmonic optical transformer scanning probe. <i>Light: Science and Applications</i> , 2014 , 3, e195-e195	16.7	7
26	Integration of solution-processed (7,5) SWCNTs with sputtered and spray-coated metal oxides for flexible complementary inverters 2014 ,		7
25	Improvement of contact resistance in flexible a-IGZO thin-film transistors by CF4/O2 plasma treatment. <i>Solid-State Electronics</i> , 2018 , 150, 23-27	1.7	7
24	Fabrication, Modeling, and Evaluation of a Digital Output Tilt Sensor With Conductive Microspheres. <i>IEEE Sensors Journal</i> , 2017 , 17, 3635-3643	4	6
23	GeSbTe π -Type Thin-Film Transistors on Flexible Plastic Foil. <i>Materials</i> , 2018 , 11,	3.5	6

22	5B1-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	5.5	5
21	Oxide Thin-Film Electronics on Carbon Fiber Reinforced Polymer Composite. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1043-1046	4.4	5
20	Oxide Thin-Film Transistors on Fibers for Smart Textiles. <i>Technologies</i> , 2017 , 5, 31	2.4	5
19	3B V, 3B.8 MHz OOK modulator with a-IGZO TFTs for flexible wireless transmitter 2017 ,		4
18	Supervised binary classification methods for strawberry ripeness discrimination from bioimpedance data. <i>Scientific Reports</i> , 2021 , 11, 11202	4.9	3
17	Design of bendable high-frequency circuits based on short-channel InGaZnO TFTs 2019 ,		2
16	Flexible Green Perovskite Light Emitting Diodes. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 769-775	2.3	2
15	Radio frequency electronics in a-IGZO TFT technology 2016 ,		2
14	Long-Term Aging of Al ₂ O ₃ Passivated and Unpassivated Flexible a-IGZO TFTs. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4934-4939	2.9	2
13	N-type to p-type transition upon phase change in Ge ₆ Sb ₁ Te ₂ compounds. <i>Applied Physics Letters</i> , 2018 , 113, 102105	3.4	2
12	FruitMeter: An AD5933-Based Portable Impedance Analyzer for Fruit Quality Characterization 2020 ,		1
11	Selection of Cole Model Bio-Impedance Parameters for the Estimation of the Ageing Evolution of Apples. <i>IFMBE Proceedings</i> , 2020 , 25-32	0.2	1
10	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT 2016 ,		1
9	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT 2016 ,		1
8	Flexible Dispense-Printed Electrochemical Biosensor for Aflatoxin M1 Detection Employing NaOH and Oxygen Plasma Electrode Pre-treatment 2019 ,		1
7	Flexible CMOS electronics based on p-type Ge ₂ Sb ₂ Te ₅ and n-type InGaZnO ₄ semiconductors 2017 ,		1
6	Digital output flexible tilt sensor with conductive microspheres 2015 ,		1
5	Design and Validation of a Portable AD5933Based Impedance Analyzer for Smart Agriculture. <i>IEEE Access</i> , 2021 , 9, 63656-63675	3.5	1

- 4 Design and simulation of a 800 Mbit/s data link for magnetic resonance imaging wearables. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 1323-6 0.9
- 3 Design and Fabrication of a Pillar-Based Piezoelectric Microphone Exploiting 3D-Printing Technology **2021**, 5, 1-4
- 2 Effects of stair case gate bias stress in IGZO/Al₂O₃ flexible TFTs. *Microelectronics Reliability*, **2018**, 88-90, 882-886 1.2
- 1 Oxide Thin-Film Electronics for the Front-End Conditioning of Flexible Magnetic Field Sensors. *Minerals, Metals and Materials Series*, **2021**, 294-302 0.3