

Luisa Petti

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.

88
papers

2,255
citations

26
h-index

46
g-index

107
ext. papers

2,675
ext. citations

5.2
avg, IF

4.76
L-index

#	Paper	IF	Citations
88	Wearable Triboelectric Nanogenerator from Waste Materials for Autonomous Information Transmission Morse Code.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	7
87	Thermo-responsive nanofibers for on-demand biocompound delivery platform. <i>Chemical Engineering Journal</i> , 2022 , 445, 136744	14.7	1
86	Field-Effect Transistor-Based Biosensors for Environmental and Agricultural Monitoring. <i>Sensors</i> , 2022 , 22, 4178	3.8	0
85	Optimization of Focused Ion Beam Patterning Parameters for Direct Integration of Plasmonic Nanostructures on Silicon Photodiodes. <i>Engineering Proceedings</i> , 2021 , 10, 2	0.5	0
84	Flexible Screen-Printed Electrochemical Sensors Functionalized with Electrodeposited Copper for Nitrate Detection in Water.. <i>ACS Omega</i> , 2021 , 6, 33523-33532	3.9	2
83	Bioimpedance Data Statistical Modelling for Food Quality Classification and Prediction 2021 ,		1
82	Supervised binary classification methods for strawberry ripeness discrimination from bioimpedance data. <i>Scientific Reports</i> , 2021 , 11, 11202	4.9	3
81	Advances in printing technologies for soft robotics devices applications. <i>Advances in Chemical Engineering</i> , 2021 , 45-89	0.6	3
80	Design and Validation of a Portable AD5933Based Impedance Analyzer for Smart Agriculture. <i>IEEE Access</i> , 2021 , 9, 63656-63675	3.5	1
79	Optimization of a Low-Power Chemoresistive Gas Sensor: Predictive Thermal Modelling and Mechanical Failure Analysis. <i>Sensors</i> , 2021 , 21,	3.8	9
78	Oxide Thin-Film Electronics for the Front-End Conditioning of Flexible Magnetic Field Sensors. <i>Minerals, Metals and Materials Series</i> , 2021 , 294-302	0.3	
77	Electrolyte-gated carbon nanotube field-effect transistor-based biosensors: Principles and applications. <i>Applied Physics Reviews</i> , 2021 , 8, 041325	17.3	7
76	FruitMeter: An AD5933-Based Portable Impedance Analyzer for Fruit Quality Characterization 2020 ,		1
75	Flexible Screen Printed Aptasensor for Rapid Detection of Furanol: A Comparison of CNTs and AgNPs Effect on Aptasensor Performance. <i>Nanomaterials</i> , 2020 , 10,	5.4	9
74	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
73	Flexible and Printed Electrochemical Immunosensor Coated with Oxygen Plasma Treated SWCNTs for Histamine Detection. <i>Biosensors</i> , 2020 , 10,	5.9	14
72	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

71	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
70	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
69	Bio-impedance and circuit parameters: An analysis for tracking fruit ripening. <i>Postharvest Biology and Technology</i> , 2020 , 159, 110978	6.2	27
68	Design of bendable high-frequency circuits based on short-channel InGaZnO TFTs 2019 ,		2
67	Development of Flexible Dispense-Printed Electrochemical Immunosensor for Aflatoxin M1 Detection in Milk. <i>Sensors</i> , 2019 , 19,	3.8	18
66	Flexible Green Perovskite Light Emitting Diodes. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 769-775	2.3	2
65	Fabrication and AC Performance of Flexible Indium-Gallium-Zinc-Oxide Thin-Film Transistors. <i>ECS Transactions</i> , 2019 , 90, 55-63	1	7
64	Flexible Dispense-Printed Electrochemical Biosensor for Aflatoxin M1 Detection Employing NaOH and Oxygen Plasma Electrode Pre-treatment 2019 ,		1
63	Flexible InGaZnO TFTs With f_{max} Above 300 MHz. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1310-1313	4.4	18
62	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
61	Design of Engineered Elastomeric Substrate for Stretchable Active Devices and Sensors. <i>Advanced Functional Materials</i> , 2018 , 28, 1705132	15.6	29
60	Fabrication, Modeling, and Evaluation of a Digital Output Tilt Sensor With Conductive Microspheres. <i>IEEE Sensors Journal</i> , 2017 , 17, 3635-3643	4	6
59	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
58	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
57	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
56	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
55	Biodegradable and Highly Deformable Temperature Sensors for the Internet of Things. <i>Advanced Functional Materials</i> , 2017 , 27, 1702390	15.6	116
54	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

53	Oxide Thin-Film Electronics on Carbon Fiber Reinforced Polymer Composite. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1043-1046	4.4	5
52	A transistor model for a-IGZO TFT circuit design built upon the RPI-aTFT model 2017 ,		7
51	Oxide Thin-Film Transistors on Fibers for Smart Textiles. <i>Technologies</i> , 2017 , 5, 31	2.4	5
50	Radio frequency electronics in a-IGZO TFT technology 2016 ,		2
49	Entirely Flexible On-Site Conditioned Magnetic Sensorics. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600188	4.4	26
48	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
47	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT 2016 ,		1
46	3.5mW 1MHz AM detector and digitally-controlled tuner in a-IGZO TFT for wireless communications in a fully integrated flexible system for audio bag 2016 ,		4
45	20.3dB 0.39mW AM detector with single-transistor active inductor in bendable a-IGZO TFT 2016 ,		1
44	Design and analysis of high-gain amplifiers in flexible self-aligned a-IGZO thin-film transistor technology. <i>Analog Integrated Circuits and Signal Processing</i> , 2016 , 87, 213-222	1.2	7
43	Metal oxide semiconductor thin-film transistors for flexible electronics. <i>Applied Physics Reviews</i> , 2016 , 3, 021303	17.3	380
42	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
41	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
40	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
39	Polymer-sorted (6,5) single-walled carbon nanotubes for solution-processed low-voltage flexible microelectronics. <i>Applied Physics Letters</i> , 2015 , 106, 193302	3.4	21
38	. <i>IEEE Electron Device Letters</i> , 2015 , 36, 475-477	4.4	27
37	15 dB conversion gain, 20 MHz carrier frequency AM receiver in flexible a-IGZO TFT technology with textile antennas 2015 ,		2
36	A 70° phase margin OPAMP with positive feedback in flexible a-IGZO TFT technology 2015 ,		11

35	Bendable energy-harvesting module with organic photovoltaic, rechargeable battery, and a-IGZO TFT charging electronics 2015 ,		6
34	Design and simulation of a 800 Mbit/s data link for magnetic resonance imaging wearables. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1323-6	0.9	
33	Biomimetic Microelectronics for Regenerative Neuronal Cuff Implants. <i>Advanced Materials</i> , 2015 , 27, 6797-805	24	72
32	Digital output flexible tilt sensor with conductive microspheres 2015 ,		1
31	Baseband amplifiers in a-IGZO TFT technology for flexible audio systems 2015 ,		2
30	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
29	20 MHz carrier frequency AM receiver in flexible a-IGZO TFT technology with textile antennas 2015 ,		3
28	2015 ,		4
27	Stretchable and Conformable Oxide Thin-Film Electronics. <i>Advanced Electronic Materials</i> , 2015 , 1, 14000384	3.4	50
26	Wafer-scale design of lightweight and transparent electronics that wraps around hairs. <i>Nature Communications</i> , 2014 , 5, 2982	17.4	249
25	Flexible Self-Aligned Double-Gate IGZO TFT. <i>IEEE Electron Device Letters</i> , 2014 , 35, 69-71	4.4	56
24	Flexible electronics based on oxide semiconductors 2014 ,		1
23	Integration of solution-processed (7,5) SWCNTs with sputtered and spray-coated metal oxides for flexible complementary inverters 2014 ,		7
22	Cherry-Hooper amplifiers with 33 dB gain at 400 kHz BW and 10 dB gain at 3.5 MHz BW in flexible self-aligned a-IGZO TFT technology 2014 ,		11
21	22.5 dB open-loop gain, 31 kHz GBW pseudo-CMOS based operational amplifier with a-IGZO TFTs on a flexible film 2014 ,		25
20	High gain amplifiers in flexible self-aligned a-IGZO thin-film-transistor technology 2014 ,		10
19	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
18	High performance flexible electronics for biomedical devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 4176-9	0.9	4

17	Influence of Mechanical Bending on Flexible InGaZnO-Based Ferroelectric Memory TFTs. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 1085-1092	2.9	37
16	Fabrication and transfer of flexible few-layers MoS ₂ thin film transistors to any arbitrary substrate. <i>ACS Nano</i> , 2013 , 7, 8809-15	16.7	158
15	Flexible Self-Aligned Amorphous InGaZnO Thin-Film Transistors With Submicrometer Channel Length and a Transit Frequency of 135 MHz. <i>IEEE Transactions on Electron Devices</i> , 2013 , 60, 2815-2820	2.9	80
14	IGZO TFT-Based All-Enhancement Operational Amplifier Bent to a Radius of 5 mm. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1394-1396	4.4	67
13	Investigation of gate material ductility enables flexible a-IGZO TFTs bendable to a radius of 1.7 mm 2013 ,		18
12	2013 ,		11
11	Flexible double gate a-IGZO TFT fabricated on free standing polyimide foil. <i>Solid-State Electronics</i> , 2013 , 84, 198-204	1.7	39
10	Room temperature fabricated flexible NiO/IGZO pn diode under mechanical strain. <i>Solid-State Electronics</i> , 2013 , 87, 17-20	1.7	30
9	Textile integrated sensors and actuators for near-infrared spectroscopy. <i>Optics Express</i> , 2013 , 21, 3213-243	3.7	37
8	InGaZnO TFTs on a flexible membrane transferred to a curved surface with a radius of 2 mm 2013 ,		5
7	Combining electronics on flexible plastic strips with textiles. <i>Textile Reseach Journal</i> , 2013 , 83, 1130-1142.	4.7	30
6	A Compact a-IGZO TFT Model Based on MOSFET SPICE $\{\text{rm Level}\}=3\}$ Template for Analog/RF Circuit Designs. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1391-1393	4.4	33
5	2013 ,		15
4	Overview of the EC project FLEXIBILITY: Organic and thin-film ICs up to radio frequencies for multifunctional flexible systems 2013 ,		3
3	Flexible a-IGZO TFT amplifier fabricated on a free standing polyimide foil operating at 1.2 MHz while bent to a radius of 5 mm 2012 ,		38
2	Mechanically flexible double gate a-IGZO TFTs 2012 ,		2
1	In tube integrated electronic nose system on a flexible polymer substrate. <i>Sensors</i> , 2012 , 12, 13681-93	3.8	4