Piero Cosseddu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9525312/publications.pdf

Version: 2024-02-01

76	2,118	201674	233421
papers	citations	27 h-index	45 g-index

78	78	78	2898
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parylene C-Based, Breathable Tattoo Electrodes for High-Quality Bio-Potential Measurements. Frontiers in Bioengineering and Biotechnology, 2022, 10, 820217.	4.1	10
2	Epidermal Electrodes with Ferrimagnetic/Conductive Properties for Biopotential Recordings. Bioengineering, 2022, 9, 205.	3.5	4
3	A wearable electronic system for EEG recording. , 2022, , .		3
4	Flexible and wearable monitoring systems for biomedical applications in organic flexible electronics: Fundamentals, devices, and applications. , 2021, , 599-625.		5
5	All-Organic, Low Voltage, Transparent and Compliant Organic Field-Effect Transistor Fabricated by Means of Large-Area, Cost-Effective Techniques. Applied Sciences (Switzerland), 2020, 10, 6656.	2.5	9
6	Electrophysiological Responses from the Human Tongue to the Six Taste Qualities and Their Relationships with PROP Taster Status. Nutrients, 2020, 12, 2017.	4.1	12
7	Printed, Lowâ€Voltage, Allâ€Organic Transistors and Complementary Circuits on Paper Substrate. Advanced Electronic Materials, 2020, 6, 1901027.	5.1	40
8	A Wearable Platform for Monitoring Wrist Flexion and Extension in Biomedical Applications Using Organic Transistor-Based Strain Sensors. IEEE Sensors Journal, 2019, 19, 6020-6028.	4.7	22
9	Human Tongue Electrophysiological Response to Oleic Acid and Its Associations with PROP Taster Status and the CD36 Polymorphism (rs1761667). Nutrients, 2019, 11, 315.	4.1	17
10	A flexible organic memory device with a clearly disclosed resistive switching mechanism. Organic Electronics, 2019, 64, 209-215.	2.6	26
11	Boosting Direct Xâ€Ray Detection in Organic Thin Films by Small Molecules Tailoring. Advanced Functional Materials, 2019, 29, 1806119.	14.9	45
12	A plastic electronic circuit based on low voltage, organic thin-film transistors for monitoring the X-Ray checking history of luggage in airports. Organic Electronics, 2018, 58, 263-269.	2.6	19
13	Morphology Influence on the Mechanical Stress Response in Bendable Organic Fieldâ€Effect Transistors with Solutionâ€Processed Semiconductors. Advanced Electronic Materials, 2018, 4, 1700271.	5.1	24
14	Ultrathin, flexible and multimodal tactile sensors based on organic field-effect transistors. Scientific Reports, 2018, 8, 8073.	3.3	92
15	Floating Gate, Organic Field-Effect Transistor-Based Sensors towards Biomedical Applications Fabricated with Large-Area Processes over Flexible Substrates. Sensors, 2018, 18, 688.	3.8	25
16	First objective evaluation of taste sensitivity to 6-n-propylthiouracil (PROP), a paradigm gustatory stimulus in humans. Scientific Reports, 2017, 7, 40353.	3.3	49
17	Combining inkjet printing and chemical vapor deposition for fabricating low voltage, organic field-effect transistors on flexible substrates. Thin Solid Films, 2017, 631, 124-131.	1.8	14
18	Printed Nonvolatile Resistive Memories Based on a Hybrid Organic/Inorganic Functional Ink. Advanced Materials Technologies, 2017, 2, 1700058.	5.8	6

#	Article	IF	Citations
19	Ultra-conformable Organic Field-Effect Transistors and circuits for epidermal electronic applications. Organic Electronics, 2017, 46, 60-67.	2.6	44
20	An Inkjetâ€Printed, Ultralow Voltage, Flexible Organic Field Effect Transistor. Advanced Materials Technologies, 2017, 2, 1600212.	5.8	53
21	Space Environment Effects on Flexible, Low-Voltage Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2017, 9, 35150-35158.	8.0	18
22	A Highly Sensitive, Direct Xâ€Ray Detector Based on a Lowâ€Voltage Organic Fieldâ€Effect Transistor. Advanced Electronic Materials, 2017, 3, 1600409.	5.1	42
23	An automated system for the objective evaluation of human gustatory sensitivity using tongue biopotential recordings. PLoS ONE, 2017, 12, e0177246.	2.5	11
24	Direct imaging of defect formation in strained organic flexible electronics by Scanning Kelvin Probe Microscopy. Scientific Reports, 2016, 6, 38203.	3.3	31
25	Direct X-ray photoconversion in flexible organic thin film devices operated below 1â€‰V. Nature Communications, 2016, 7, 13063.	12.8	130
26	Toward Lowâ€Voltage and Bendable Xâ€Ray Direct Detectors Based on Organic Semiconducting Single Crystals. Advanced Materials, 2015, 27, 7213-7220.	21.0	72
27	Integration of an Organic Resistive Memory with a Pressureâ€Sensitive Element on a Fully Flexible Substrate. Advanced Electronic Materials, 2015, 1, 1500234.	5.1	12
28	Pressure-Triggered Memory: Integration of an Organic Resistive Memory with a Pressure-Sensitive Element on a Fully Flexible Substrate (Adv. Electron. Mater. 12/2015). Advanced Electronic Materials, 2015, 1, .	5.1	0
29	Controlling the Growth of Silver Nanoparticles on Thin Films of an n-Type Molecular Semiconductor. Journal of Physical Chemistry C, 2015, 119, 13115-13123.	3.1	0
30	Flexible non-volatile memory devices based on organic semiconductors. Proceedings of SPIE, 2015, , .	0.8	1
31	Highly flexible and low voltage Organic Thin Film Transistors for wearable electronics and e-skin applications. , 2015, , .		3
32	Air-stable, non-volatile resistive memory based on hybrid organic/inorganic nanocomposites. Organic Electronics, 2015, 18, 17-23.	2.6	47
33	Self-encapsulation of organic thin film transistors by means of ion implantation. Synthetic Metals, 2015, 209, 178-182.	3.9	2
34	Flexible temperature sensors based on charge modulated organic thin film transistors. , 2015, , .		1
35	A Temperature Transducer Based on a Low-Voltage Organic Thin-Film Transistor Detecting Pyroelectric Effect. IEEE Electron Device Letters, 2014, 35, 1296-1298.	3.9	20
36	High performance, foldable, organic memories based on ultra-low voltage, thin film transistors. Organic Electronics, 2014, 15, 3595-3600.	2.6	18

#	Article	IF	Citations
37	7.5–15 MHz organic frequency doubler made with pentacene-based diode and paper substrate. , 2014, , .		10
38	Organic Bendable and Stretchable Field Effect Devices for Sensing Applications. IEEE Sensors Journal, 2013, 13, 4764-4772.	4.7	24
39	Ultralow Voltage Pressure Sensors Based on Organic FETs and Compressible Capacitors. IEEE Electron Device Letters, 2013, 34, 801-803.	3.9	21
40	Highly ordered mesoporous magnesium niobate high-Îº dielectric ceramic: synthesis, structural/mechanical characterization and thermal stability. Journal of Materials Chemistry C, 2013, 1, 4948.	5.5	4
41	Piezoelectric Polymer Transducer Arrays for Flexible Tactile Sensors. IEEE Sensors Journal, 2013, 13, 4022-4029.	4.7	106
42	Continuous tuning of the mechanical sensitivity of Pentacene OTFTs on flexible substrates: From strain sensors to deformable transistors. Organic Electronics, 2013, 14, 206-211.	2.6	57
43	Origin of mechanical strain sensitivity of pentacene thin-film transistors. Organic Electronics, 2013, 14, 1323-1329.	2.6	32
44	Towards high frequency performances of ultra-low voltage OTFTs: Combining self-alignment and hybrid, nanosized dielectrics. Organic Electronics, 2013, 14, 754-761.	2.6	23
45	Ultralow Voltage, OTFTâ€Based Sensor for Labelâ€Free DNA Detection. Advanced Materials, 2013, 25, 103-107.	21.0	114
46	Charge sensing by organic charge-modulated field effect transistors: application to the detection of bio-related effects. Journal of Materials Chemistry B, 2013, 1, 3811.	5.8	35
47	Ultra-low Voltage, Self-aligned OTFTs for Frequency Applications. Materials Research Society Symposia Proceedings, 2013, 1567, 1.	0.1	0
48	Inkjet printed Organic Thin Film Transistors based tactile transducers for artificial robotic skin. , 2012, , .		8
49	Piezoelectric polymer transducer arrays for flexible tactile sensors. , 2012, , .		11
50	Matrices of inkjet printed OFETs for the realization of artificial robotic skin. Materials Research Society Symposia Proceedings, 2012, 1401, 26.	0.1	3
51	Stabilization of organic thin film transistors by ion implantation. Physica B: Condensed Matter, 2012, 407, 3047-3051.	2.7	1
52	Photocurrent spectroscopy of ion-implanted organic thin film transistors. Synthetic Metals, 2012, 161, 2585-2588.	3.9	1
53	Electrochemical characterization of self assembled monolayers on flexible electrodes. Electrochimica Acta, 2012, 65, 159-164.	5.2	15
54	Electrical characteristics of ink-jet printed, all-polymer electrochemical transistors. Organic Electronics, 2012, 13, 244-248.	2.6	56

#	Article	IF	Citations
55	Inkjet printing of transparent, flexible, organic transistors. Thin Solid Films, 2011, 520, 1291-1294.	1.8	90
56	Organic electronics on natural cotton fibres. Organic Electronics, 2011, 12, 2033-2039.	2.6	85
57	Fully Deformable Organic Thin-Film Transistors With Moderate Operation Voltage. IEEE Transactions on Electron Devices, 2011, 58, 3416-3421.	3.0	36
58	Aging control of organic thin film transistors via ion-implantation. Organic Electronics, 2011, 12, 1552-1559.	2.6	13
59	Active Devices Based on Organic Semiconductors for Wearable Applications. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 758-766.	3.2	58
60	Correlating photocurrent spectra and electrical transport parameters in organic field effect transistors. Organic Electronics, 2010, 11, 273-278.	2.6	7
61	Inkjet printed arrays of pressure sensors based on all-organic field effect transistors. , 2010, 2010, 2111-4.		7
62	Continuous Tuning of Organic Transistor Operation from Enhancement to Depletion Mode. Advanced Materials, 2009, 21, 344-348.	21.0	30
63	Photocurrent studies of sexythiophene-based OFETs. Applied Physics A: Materials Science and Processing, 2009, 95, 37-41.	2.3	4
64	Ambipolar organic field-effect transistors on unconventional substrates. Applied Physics A: Materials Science and Processing, 2009, 95, 49-54.	2.3	9
65	Arrays of pressure sensors based on organic field effect: A new perspective for non invasive monitoring. , 2009, 2009, 6151-4.		2
66	Transparent dielectric films for organic thin-film transistors: A perspective for low cost, low size technologies. Thin Solid Films, 2008, 516, 1533-1537.	1.8	25
67	Ambipolar transport in transparent and flexible all-organic heterojunction field effect transistors at ambient conditions. Organic Electronics, 2008, 9, 191-197.	2.6	35
68	ALL-ORGANIC FLEXIBLE AND TRANSARENT AMBIPOLAR FETs WITH ORGANIC BULK HETEROJUNCTIONS. Materials Research Society Symposia Proceedings, 2007, 1029, 1.	0.1	0
69	A comparison between bottom contact and top contact all organic field effect transistors assembled by soft lithography. Thin Solid Films, 2007, 515, 7551-7555.	1.8	29
70	Towards the textile transistor: Assembly and characterization of an organic field effect transistor with a cylindrical geometry. Applied Physics Letters, 2006, 89, 143515.	3.3	113
71	Organic light-emitting transistors using concentric source/drain electrodes on a molecular adhesion layer. Applied Physics Letters, 2006, 88, 163511.	3.3	33
72	Soft Lithography Fabrication of Fully Flexible and Transparent all Organic FETs for Large Area Applications. Materials Research Society Symposia Proceedings, 2006, 965, 1.	0.1	1

#	Article	IF	Citations
73	The textile transistor: a perspective for distributed, wearable networks of sensor devices. , 2006, , .		2
74	Tetracene light-emitting transistors on flexible plastic substrates. Applied Physics Letters, 2005, 86, 141106.	3.3	85
75	An organic thin film transistor structure for optoelectronic applications. , 2004, 5464, 356.		0
76	A Flexible, Transparent Chemosensor Integrating an Inkjetâ€Printed Organic Fieldâ€Effect Transistor and a Nonâ€Covalently Functionalized Graphene Electrode. Advanced Materials Technologies, 0, , 2100481.	5.8	6