

Piero Cosseddu

List of Publications by Year in descending order

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

Version: 2024-02-01

76
papers

2,118
citations

201674

27
h-index

233421

45
g-index

78
all docs

78
docs citations

78
times ranked

2898
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct X-ray photoconversion in flexible organic thin film devices operated below 1%V. Nature Communications, 2016, 7, 13063.	12.8	130
2	Ultralow Voltage, OTFT-Based Sensor for Label-Free DNA Detection. Advanced Materials, 2013, 25, 103-107.	21.0	114
3	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
4	Piezoelectric Polymer Transducer Arrays for Flexible Tactile Sensors. IEEE Sensors Journal, 2013, 13, 4022-4029.	4.7	106
5	Ultrathin, flexible and multimodal tactile sensors based on organic field-effect transistors. Scientific Reports, 2018, 8, 8073.	3.3	92
6	Inkjet printing of transparent, flexible, organic transistors. Thin Solid Films, 2011, 520, 1291-1294.	1.8	90
7	Tetracene light-emitting transistors on flexible plastic substrates. Applied Physics Letters, 2005, 86, 141106.	3.3	85
8	Organic electronics on natural cotton fibres. Organic Electronics, 2011, 12, 2033-2039.	2.6	85
9	Toward Low-Voltage and Bendable X-Ray Direct Detectors Based on Organic Semiconducting Single Crystals. Advanced Materials, 2015, 27, 7213-7220.	21.0	72
10	Active Devices Based on Organic Semiconductors for Wearable Applications. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 758-766.	3.2	58
11	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
12	Electrical characteristics of ink-jet printed, all-polymer electrochemical transistors. Organic Electronics, 2012, 13, 244-248.	2.6	56
13	An Inkjet-Printed, Ultralow Voltage, Flexible Organic Field Effect Transistor. Advanced Materials Technologies, 2017, 2, 1600212.	5.8	53
14	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
15	Air-stable, non-volatile resistive memory based on hybrid organic/inorganic nanocomposites. Organic Electronics, 2015, 18, 17-23.	2.6	47
16	Boosting Direct X-Ray Detection in Organic Thin Films by Small Molecules Tailoring. Advanced Functional Materials, 2019, 29, 1806119.	14.9	45
17	Ultra-conformable Organic Field-Effect Transistors and circuits for epidermal electronic applications. Organic Electronics, 2017, 46, 60-67.	2.6	44
18	A Highly Sensitive, Direct X-Ray Detector Based on a Low-Voltage Organic Field-Effect Transistor. Advanced Electronic Materials, 2017, 3, 1600409.	5.1	42

#	ARTICLE	IF	CITATIONS
19	Printed, Low-Voltage, All-Organic Transistors and Complementary Circuits on Paper Substrate. <i>Advanced Electronic Materials</i> , 2020, 6, 1901027.	5.1	40
20	Fully Deformable Organic Thin-Film Transistors With Moderate Operation Voltage. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 3416-3421.	3.0	36
21	Ambipolar transport in transparent and flexible all-organic heterojunction field effect transistors at ambient conditions. <i>Organic Electronics</i> , 2008, 9, 191-197.	2.6	35
22	Charge sensing by organic charge-modulated field effect transistors: application to the detection of bio-related effects. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3811.	5.8	35
23	Organic light-emitting transistors using concentric source/drain electrodes on a molecular adhesion layer. <i>Applied Physics Letters</i> , 2006, 88, 163511.	3.3	33
24	Origin of mechanical strain sensitivity of pentacene thin-film transistors. <i>Organic Electronics</i> , 2013, 14, 1323-1329.	2.6	32
25	Direct imaging of defect formation in strained organic flexible electronics by Scanning Kelvin Probe Microscopy. <i>Scientific Reports</i> , 2016, 6, 38203.	3.3	31
26	Continuous Tuning of Organic Transistor Operation from Enhancement to Depletion Mode. <i>Advanced Materials</i> , 2009, 21, 344-348.	21.0	30
27	A comparison between bottom contact and top contact all organic field effect transistors assembled by soft lithography. <i>Thin Solid Films</i> , 2007, 515, 7551-7555.	1.8	29
28	A flexible organic memory device with a clearly disclosed resistive switching mechanism. <i>Organic Electronics</i> , 2019, 64, 209-215.	2.6	26
29	Transparent dielectric films for organic thin-film transistors: A perspective for low cost, low size technologies. <i>Thin Solid Films</i> , 2008, 516, 1533-1537.	1.8	25
30	Floating Gate, Organic Field-Effect Transistor-Based Sensors towards Biomedical Applications Fabricated with Large-Area Processes over Flexible Substrates. <i>Sensors</i> , 2018, 18, 688.	3.8	25
31	Organic Bendable and Stretchable Field Effect Devices for Sensing Applications. <i>IEEE Sensors Journal</i> , 2013, 13, 4764-4772.	4.7	24
32	Morphology Influence on the Mechanical Stress Response in Bendable Organic Field-Effect Transistors with Solution-Processed Semiconductors. <i>Advanced Electronic Materials</i> , 2018, 4, 1700271.	5.1	24
33	Towards high frequency performances of ultra-low voltage OTFTs: Combining self-alignment and hybrid, nanosized dielectrics. <i>Organic Electronics</i> , 2013, 14, 754-761.	2.6	23
34	A Wearable Platform for Monitoring Wrist Flexion and Extension in Biomedical Applications Using Organic Transistor-Based Strain Sensors. <i>IEEE Sensors Journal</i> , 2019, 19, 6020-6028.	4.7	22
35	Ultralow Voltage Pressure Sensors Based on Organic FETs and Compressible Capacitors. <i>IEEE Electron Device Letters</i> , 2013, 34, 801-803.	3.9	21
36	A Temperature Transducer Based on a Low-Voltage Organic Thin-Film Transistor Detecting Pyroelectric Effect. <i>IEEE Electron Device Letters</i> , 2014, 35, 1296-1298.	3.9	20

#	ARTICLE	IF	CITATIONS
37	A plastic electronic circuit based on low voltage, organic thin-film transistors for monitoring the X-Ray checking history of luggage in airports. <i>Organic Electronics</i> , 2018, 58, 263-269.	2.6	19
38	High performance, foldable, organic memories based on ultra-low voltage, thin film transistors. <i>Organic Electronics</i> , 2014, 15, 3595-3600.	2.6	18
39	Space Environment Effects on Flexible, Low-Voltage Organic Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35150-35158.	8.0	18
40	Human Tongue Electrophysiological Response to Oleic Acid and Its Associations with PROP Taster Status and the CD36 Polymorphism (rs1761667). <i>Nutrients</i> , 2019, 11, 315.	4.1	17
41	Electrochemical characterization of self assembled monolayers on flexible electrodes. <i>Electrochimica Acta</i> , 2012, 65, 159-164.	5.2	15
42	Combining inkjet printing and chemical vapor deposition for fabricating low voltage, organic field-effect transistors on flexible substrates. <i>Thin Solid Films</i> , 2017, 631, 124-131.	1.8	14
43	Aging control of organic thin film transistors via ion-implantation. <i>Organic Electronics</i> , 2011, 12, 1552-1559.	2.6	13
44	Integration of an Organic Resistive Memory with a Pressure-Sensitive Element on a Fully Flexible Substrate. <i>Advanced Electronic Materials</i> , 2015, 1, 1500234.	5.1	12
45	Electrophysiological Responses from the Human Tongue to the Six Taste Qualities and Their Relationships with PROP Taster Status. <i>Nutrients</i> , 2020, 12, 2017.	4.1	12
46	Piezoelectric polymer transducer arrays for flexible tactile sensors. , 2012, , .		11
47	An automated system for the objective evaluation of human gustatory sensitivity using tongue biopotential recordings. <i>PLoS ONE</i> , 2017, 12, e0177246.	2.5	11
48	7.5–15 MHz organic frequency doubler made with pentacene-based diode and paper substrate. , 2014, , .		10
49	Parylene C-Based, Breathable Tattoo Electrodes for High-Quality Bio-Potential Measurements. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 820217.	4.1	10
50	Ambipolar organic field-effect transistors on unconventional substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 49-54.	2.3	9
51	All-Organic, Low Voltage, Transparent and Compliant Organic Field-Effect Transistor Fabricated by Means of Large-Area, Cost-Effective Techniques. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6656.	2.5	9
52	Inkjet printed Organic Thin Film Transistors based tactile transducers for artificial robotic skin. , 2012, , .		8
53	Correlating photocurrent spectra and electrical transport parameters in organic field effect transistors. <i>Organic Electronics</i> , 2010, 11, 273-278.	2.6	7
54	Inkjet printed arrays of pressure sensors based on all-organic field effect transistors. , 2010, 2010, 2111-4.		7

#	ARTICLE	IF	CITATIONS
55	Printed Nonvolatile Resistive Memories Based on a Hybrid Organic/Inorganic Functional Ink. <i>Advanced Materials Technologies</i> , 2017, 2, 1700058.	5.8	6
56	A Flexible, Transparent Chemosensor Integrating an Inkjet-Printed Organic Field-Effect Transistor and a Non-Covalently Functionalized Graphene Electrode. <i>Advanced Materials Technologies</i> , 0, , 2100481.	5.8	6
57	Flexible and wearable monitoring systems for biomedical applications in organic flexible electronics: Fundamentals, devices, and applications. , 2021, , 599-625.		5
58	Photocurrent studies of sexythiophene-based OFETs. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 37-41.	2.3	4
59	Highly ordered mesoporous magnesium niobate high- $\hat{\rho}$ dielectric ceramic: synthesis, structural/mechanical characterization and thermal stability. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4948.	5.5	4
60	Epidermal Electrodes with Ferrimagnetic/Conductive Properties for Biopotential Recordings. <i>Bioengineering</i> , 2022, 9, 205.	3.5	4
61	Matrices of inkjet printed OFETs for the realization of artificial robotic skin. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1401, 26.	0.1	3
62	Highly flexible and low voltage Organic Thin Film Transistors for wearable electronics and e-skin applications. , 2015, , .		3
63	A wearable electronic system for EEG recording. , 2022, , .		3
64	The textile transistor: a perspective for distributed, wearable networks of sensor devices. , 2006, , .		2
65	Arrays of pressure sensors based on organic field effect: A new perspective for non invasive monitoring. , 2009, 2009, 6151-4.		2
66	Self-encapsulation of organic thin film transistors by means of ion implantation. <i>Synthetic Metals</i> , 2015, 209, 178-182.	3.9	2
67	Soft Lithography Fabrication of Fully Flexible and Transparent all Organic FETs for Large Area Applications. <i>Materials Research Society Symposia Proceedings</i> , 2006, 965, 1.	0.1	1
68	Stabilization of organic thin film transistors by ion implantation. <i>Physica B: Condensed Matter</i> , 2012, 407, 3047-3051.	2.7	1
69	Photocurrent spectroscopy of ion-implanted organic thin film transistors. <i>Synthetic Metals</i> , 2012, 161, 2585-2588.	3.9	1
70	Flexible non-volatile memory devices based on organic semiconductors. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
71	Flexible temperature sensors based on charge modulated organic thin film transistors. , 2015, , .		1
72	An organic thin film transistor structure for optoelectronic applications. , 2004, 5464, 356.		0

#	ARTICLE	IF	CITATIONS
73	ALL-ORGANIC FLEXIBLE AND TRANSPARENT AMBIPOLAR FETs WITH ORGANIC BULK HETEROJUNCTIONS. Materials Research Society Symposia Proceedings, 2007, 1029, 1.	0.1	0
74	Ultra-low Voltage, Self-aligned OTFTs for Frequency Applications. Materials Research Society Symposia Proceedings, 2013, 1567, 1.	0.1	0
75	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
76	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