

# Vincenzo Pecunia

## List of Publications by Year in descending order

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49  
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236925  
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docs citations

52  
times ranked

3727  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep-Subthreshold Ambipolar Printed-CNT TFTs Toward Sustainable Ultra-Low-Power Edge Computing. , 2022, , .		1
2	Solution-Based Integration of Vertically Stacked Organic Photodetectors Toward Easy-to-Fabricate Filterless Multi-Color Light Sensors. Advanced Optical Materials, 2022, 10, .	7.3	8
3	Enhancing the Microstructure of Perovskite-Inspired CuAgBi Absorber for Efficient Indoor Photovoltaics. Small, 2022, 18, .	10.0	16
4	Lead-Free Perovskite-Inspired Absorbers for Indoor Photovoltaics. Advanced Energy Materials, 2021, 11, 2002761.	19.5	95
5	Indoor Photovoltaics: Lead-Free Perovskite-Inspired Absorbers for Indoor Photovoltaics (Adv. Energy) Tj ETQq1 1,0784314 rgBT /Qve	19.5	107
6	Ambipolar carbon nanotube transistors with hybrid nanodielectric for low-voltage CMOS-like electronics. Nano Futures, 2021, 5, 025001.	2.2	10
7	Engineering Chemical Vapor Deposition for Lead-Free Perovskite-Inspired MA <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> Self-Powered Photodetectors with High Performance and Stability. Advanced Optical Materials, 2021, 9, 2100192.	7.3	17
8	Assessing the Impact of Defects on Lead-Free Perovskite-Inspired Photovoltaics via Photoinduced Current Transient Spectroscopy. Advanced Energy Materials, 2021, 11, 2003968.	19.5	26
9	Lead-free halide perovskites for next-generation self-powered photodetectors: a comprehensive review. Photonics Research, 2021, 9, 968.	7.0	52
10	Emerging Indoor Photovoltaic Technologies for Sustainable Internet of Things. Advanced Energy Materials, 2021, 11, 2100698.	19.5	117
11	Two-Dimensional Antimony-Based Perovskite-Inspired Materials for High-Performance Self-Powered Photodetectors. Advanced Functional Materials, 2021, 31, 2106295.	14.9	32
12	Two-Dimensional Antimony-Based Perovskite-Inspired Materials for High-Performance Self-Powered Photodetectors (Adv. Funct. Mater. 50/2021). Advanced Functional Materials, 2021, 31, .	14.9	0
13	Lead-free halide perovskite photovoltaics: Challenges, open questions, and opportunities. APL Materials, 2020, 8, .	5.1	65
14	Bromine Doping of MAPbI <sub>3</sub> Films Deposited via Chemical Vapor Deposition Enables Efficient and Photo-Stable Self-Powered Photodetectors. Advanced Optical Materials, 2020, 8, 2000845.	7.3	33
15	Ambipolar Deep-Subthreshold Printed-Carbon-Nanotube Transistors for Ultralow-Voltage and Ultralow-Power Electronics. ACS Nano, 2020, 14, 14036-14046.	14.6	30
16	Air-stable N-type printed carbon nanotube thin film transistors for CMOS logic circuits. Carbon, 2020, 163, 145-153.	10.3	31
17	Electronic Structure and Optoelectronic Properties of Bismuth Oxyiodide Robust against Percent-Level Iodine-, Oxygen-, and Bismuth-Related Surface Defects. Advanced Functional Materials, 2020, 30, 1909983.	14.9	40
18	Narrowband-Absorption-Type Organic Photodetectors for the Far-Red Range Based on Fullerene-Free Bulk Heterojunctions. Advanced Optical Materials, 2020, 8, 1902056.	7.3	47

#	ARTICLE	IF	CITATIONS
19	Perovskite-Inspired Lead-Free Ag <sub>2</sub> BiI <sub>5</sub> for Self-Powered NIR-Blind Visible Light Photodetection. Nano-Micro Letters, 2020, 12, 27.	27.0	46
20	Enhanced photoconversion efficiency in cesium-antimony-halide perovskite derivatives by tuning crystallographic dimensionality. Applied Materials Today, 2020, 19, 100637.	4.3	32
21	CVD-deposited hybrid lead halide perovskite films for high-responsivity, self-powered photodetectors with enhanced photo stability under ambient conditions. Nano Energy, 2020, 74, 104872.	16.0	50
22	Microstructural and photoconversion efficiency enhancement of compact films of lead-free perovskite derivative Rb <sub>3</sub> Sb <sub>2</sub> I <sub>9</sub> . Journal of Materials Chemistry A, 2020, 8, 4396-4406.	10.3	32
23	Low-Voltage Electronics Based on Carbon Nanotube Thin-Film Transistors with Hybrid Nanodielectric. , 2020, , .		3
24	Optimization of Hole-Transport Layer in Solution-Processed Silver Bismuth Iodide Solar Cells. , 2019, , .		0
25	Efficiency and spectral performance of narrowband organic and perovskite photodetectors: a cross-sectional review. JPhys Materials, 2019, 2, 042001.	4.2	57
26	Overcoming Electrochemical Instabilities of Printed Silver Electrodes in All-Printed Ion Gel Gated Carbon Nanotube Thin-Film Transistors. ACS Applied Materials & Interfaces, 2019, 11, 41531-41543.	8.0	27
27	High-performance metal-oxide thin-film transistors based on inkjet-printed self-confined bilayer heterojunction channels. Journal of Materials Chemistry C, 2019, 7, 6169-6177.	5.5	31
28	Polarity tuning of carbon nanotube transistors by chemical doping for printed flexible complementary metal-oxide semiconductor (CMOS)-like inverters. Carbon, 2019, 147, 566-573.	10.3	22
29	High-Resolution Inkjet-Printed Oxide Thin-Film Transistors with a Self-Aligned Fine Channel Bank Structure. ACS Applied Materials & Interfaces, 2018, 10, 15847-15854.	8.0	14
30	Trap Healing for High-Performance Low-Voltage Polymer Transistors and Solution-Based Analog Amplifiers on Foil. Advanced Materials, 2017, 29, 1606938.	21.0	36
31	Improved Performance and Stability of All-Inorganic Perovskite Light-Emitting Diodes by Antisolvent Vapor Treatment. Advanced Functional Materials, 2017, 27, 1700338.	14.9	221
32	Selective Conversion from p-Type to n-Type of Printed Bottom-Gate Carbon Nanotube Thin-Film Transistors and Application in Complementary Metal-Oxide-Semiconductor Inverters. ACS Applied Materials & Interfaces, 2017, 9, 12750-12758.	8.0	41
33	Inkjet-Printed Nanocavities on a Photonic Crystal Template. Advanced Materials, 2017, 29, 1704425.	21.0	19
34	Printed Nanophotonics: Inkjet-Printed Nanocavities on a Photonic Crystal Template (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	21.0	1
35	Inkjet printed nanocavities on a photonic crystal template. , 2017, , .		0
36	Scanning Kelvin Probe Microscopy Investigation of the Role of Minority Carriers on the Switching Characteristics of Organic Field-Effect Transistors. Advanced Materials, 2016, 28, 4713-4719.	21.0	34

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37	High-Performance Solution-Processed Amorphous-Oxide-Semiconductor TFTs with Organic Polymeric Gate Dielectrics. Advanced Electronic Materials, 2015, 1, 1400024.	5.1	60
38	Solution-based self-aligned hybrid organic/metal-oxide complementary logic with megahertz operation. Organic Electronics, 2015, 21, 177-183.	2.6	21
39	Programmable logic circuits for functional integrated smart plastic systems. Organic Electronics, 2014, 15, 3111-3119.	2.6	59
40	Two-Dimensional Carrier Distribution in Top-Gate Polymer Field-Effect Transistors: Correlation between Width of Density of Localized States and Urbach Energy. Advanced Materials, 2014, 26, 728-733.	21.0	149
41	Approaching disorder-free transport in high-mobility conjugated polymers. Nature, 2014, 515, 384-388.	27.8	844
42	Squaraine-based organic photodetector coupled to a scintillating crystal for X-ray sensing applications. , 2009, , .		4
43	Organic narrowband photodetectors: materials. , 0, , .		1
44	Organic narrowband photodetectors: performance. , 0, , .		0
45	Integration for real-world applications. , 0, , .		0
46	Introduction to organic photodetectors. , 0, , .		0
47	Narrowband photodetection. , 0, , .		0
48	Detecting light in a multispectral world. , 0, , .		0
49	Serendipitous Doping in Nickel Oxide upon Microwave-Induced Low-Temperature Crystallization Enhances Efficiency of Perovskite Solar Cells. Solar Rrl, 0, , 2100992.	5.8	2