Vincenzo Pecunia

List of Publications by Year in descending order

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49 papers	2,468 citations	236925 25 h-index	361022 35 g-index
52 all docs	52 docs citations	52 times ranked	3727 citing authors

#	Article	IF	Citations
1	Approaching disorder-free transport in high-mobility conjugated polymers. Nature, 2014, 515, 384-388.	27.8	844
2	Improved Performance and Stability of Allâ€Inorganic Perovskite Lightâ€Emitting Diodes by Antisolvent Vapor Treatment. Advanced Functional Materials, 2017, 27, 1700338.	14.9	221
3	Twoâ€Dimensional Carrier Distribution in Topâ€Gate Polymer Fieldâ€Effect Transistors: Correlation between Width of Density of Localized States and Urbach Energy. Advanced Materials, 2014, 26, 728-733.	21.0	149
4	Emerging Indoor Photovoltaic Technologies for Sustainable Internet of Things. Advanced Energy Materials, 2021, 11, 2100698.	19.5	117
5	Leadâ€Free Perovskiteâ€Inspired Absorbers for Indoor Photovoltaics. Advanced Energy Materials, 2021, 11, 2002761.	19.5	95
6	Lead-free halide perovskite photovoltaics: Challenges, open questions, and opportunities. APL Materials, 2020, 8, .	5.1	65
7	Highâ€Performance Solutionâ€Processed Amorphousâ€Oxideâ€Semiconductor TFTs with Organic Polymeric Gate Dielectrics. Advanced Electronic Materials, 2015, 1, 1400024.	5.1	60
8	Programmable logic circuits for functional integrated smart plastic systems. Organic Electronics, 2014, 15, 3111-3119.	2.6	59
9	Efficiency and spectral performance of narrowband organic and perovskite photodetectors: a cross-sectional review. JPhys Materials, 2019, 2, 042001.	4.2	57
10	Leadâ€“halide perovskites for next-generation self-powered photodetectors: a comprehensive review. Photonics Research, 2021, 9, 968.	7.0	52
11	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
12	Narrowbandâ€Absorptionâ€Type Organic Photodetectors for the Farâ€Red Range Based on Fullereneâ€Free Bulk Heterojunctions. Advanced Optical Materials, 2020, 8, 1902056.	7.3	47
13	Perovskite-Inspired Lead-Free Ag2BiI5 for Self-Powered NIR-Blind Visible Light Photodetection. Nano-Micro Letters, 2020, 12, 27.	27.0	46
14	Selective Conversion from p-Type to n-Type of Printed Bottom-Gate Carbon Nanotube Thin-Film Transistors and Application in Complementary Metalâ€“Oxideâ€“Semiconductor Inverters. ACS Applied Materials & Interfaces, 2017, 9, 12750-12758.	8.0	41
15	Electronic Structure and Optoelectronic Properties of Bismuth Oxyiodide Robust against Percentâ€Level Iodineâ€, Oxygenâ€, and Bismuthâ€Related Surface Defects. Advanced Functional Materials, 2020, 30, 1909983.	14.9	40
16	Trap Healing for Highâ€Performance Lowâ€Voltage Polymer Transistors and Solutionâ€Based Analog Amplifiers on Foil. Advanced Materials, 2017, 29, 1606938.	21.0	36
17	Scanning Kelvin Probe Microscopy Investigation of the Role of Minority Carriers on the Switching Characteristics of Organic Fieldâ€Effect Transistors. Advanced Materials, 2016, 28, 4713-4719.	21.0	34
18	Bromine Doping of MAPbI₃ Films Deposited via Chemical Vapor Deposition Enables Efficient and Photoâ€Stable Selfâ€Powered Photodetectors. Advanced Optical Materials, 2020, 8, 2000845.	7.3	33

#	Article	IF	Citations
19	Enhanced photoconversion efficiency in cesium-antimony-halide perovskite derivatives by tuning crystallographic dimensionality. Applied Materials Today, 2020, 19, 100637.	4.3	32
20	Twoâ€Dimensional Antimonyâ€Based Perovskiteâ€Inspired Materials for Highâ€Performance Selfâ€Powered Photodetectors. Advanced Functional Materials, 2021, 31, 2106295.	14.9	32
21	Microstructural and photoconversion efficiency enhancement of compact films of lead-free perovskite derivative Rb₃Sb₂I₉. Journal of Materials Chemistry A, 2020, 8, 4396-4406.	10.3	32
22	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
23	Air-stable N-type printed carbon nanotube thin film transistors for CMOS logic circuits. Carbon, 2020, 163, 145-153.	10.3	31
24	Ambipolar Deep-Subthreshold Printed-Carbon-Nanotube Transistors for Ultralow-Voltage and Ultralow-Power Electronics. ACS Nano, 2020, 14, 14036-14046.	14.6	30
25	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
26	Assessing the Impact of Defects on Leadâ€Free Perovskiteâ€Inspired Photovoltaics via Photoinduced Current Transient Spectroscopy. Advanced Energy Materials, 2021, 11, 2003968.	19.5	26
27	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
28	Solution-based self-aligned hybrid organic/metal-oxide complementary logic with megahertz operation. Organic Electronics, 2015, 21, 177-183.	2.6	21
29	Inkjetâ€Printed Nanocavities on a Photonic Crystal Template. Advanced Materials, 2017, 29, 1704425.	21.0	19
30	Engineering Chemical Vapor Deposition for Leadâ€Free Perovskiteâ€Inspired MA₃Bi₂I₉ Selfâ€Powered Photodetectors with High Performance and Stability. Advanced Optical Materials, 2021, 9, 2100192.	7.3	17
31	Enhancing the Microstructure of Perovskiteâ€Inspired Cuâ€Agâ€Biâ€I Absorber for Efficient Indoor Photovoltaics. Small, 2022, 18, .	10.0	16
32	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
33	Ambipolar carbon nanotube transistors with hybrid nanodielectric for low-voltage CMOS-like electronics. Nano Futures, 2021, 5, 025001.	2.2	10
34	Solutionâ€Based Integration of Vertically Stacked Organic Photodetectors Toward Easyâ€Toâ€Fabricate Filterless Multiâ€Color Light Sensors. Advanced Optical Materials, 2022, 10, .	7.3	8
35	Squaraine-based organic photodetector coupled to a scintillating crystal for X-ray sensing applications. , 2009, , .		4
36	Indoor Photovoltaics: Leadâ€Free Perovskiteâ€Inspired Absorbers for Indoor Photovoltaics (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 10	19.5	3

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37	Low-Voltage Electronics Based on Carbon Nanotube Thin-Film Transistors with Hybrid Nanodielectric. , 2020, , .		3
38	Serendipitous Doping in Nickel Oxide upon Microwaveâ€Induced Lowâ€Temperature Crystallization Enhances Efficiency of Perovskite Solar Cells. Solar Rrl, 0, , 2100992.	5.8	2
39	Printed Nanophotonics: Inkjetâ€Printed Nanocavities on a Photonic Crystal Template (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlo	21.0	1
40	Organic narrowband photodetectors: materials. , 0, , .		1
41	Deep-Subthreshold Ambipolar Printed-CNT TFTs Toward Sustainable Ultra-Low-Power Edge Computing. , 2022, , .		1
42	Inkjet printed nanocavities on a photonic crystal template. , 2017, , .		0
43	Optimization of Hole-Transport Layer in Solution-Processed Silver Bismuth Iodide Solar Cells. , 2019, , .		0
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	Twoâ€Dimensional Antimonyâ€Based Perovskiteâ€Inspired Materials for Highâ€Performance Selfâ€Powered Photodetectors (Adv. Funct. Mater. 50/2021). Advanced Functional Materials, 2021, 31, .	14.9	0