

Andrea Ciavatti

List of Publications by Year in descending order

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29
papers

1,036
citations

430874

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526287

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29
all docs

29
docs citations

29
times ranked

852
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct X-ray photoconversion in flexible organic thin film devices operated below 1â€%V. Nature Communications, 2016, 7, 13063.	12.8	130
2	Solutionâ€Grown Organic and Perovskite Xâ€Ray Detectors: A New Paradigm for the Direct Detection of Ionizing Radiation. Advanced Materials Technologies, 2021, 6, 2000475.	5.8	89
3	Organic Semiconducting Single Crystals as Next Generation of Lowâ€Cost, Roomâ€Temperature Electrical Xâ€ray Detectors. Advanced Materials, 2012, 24, 2289-2293.	21.0	84
4	Detection of Xâ€Rays by Solutionâ€Processed Cesiumâ€Containing Mixed Triple Cation Perovskite Thin Films. Advanced Functional Materials, 2019, 29, 1902346.	14.9	74
5	Toward Lowâ€Voltage and Bendable Xâ€Ray Direct Detectors Based on Organic Semiconducting Single Crystals. Advanced Materials, 2015, 27, 7213-7220.	21.0	72
6	Morphology and mobility as tools to control and unprecedentedly enhance X-ray sensitivity in organic thin-films. Nature Communications, 2020, 11, 2136.	12.8	59
7	Highâ€Sensitivity Flexible Xâ€Ray Detectors based on Printed Perovskite Inks. Advanced Functional Materials, 2021, 31, 2009072.	14.9	55
8	Organic semiconducting single crystals as solid-state sensors for ionizing radiation. Faraday Discussions, 2014, 174, 219-234.	3.2	45
9	Boosting Direct Xâ€Ray Detection in Organic Thin Films by Small Molecules Tailoring. Advanced Functional Materials, 2019, 29, 1806119.	14.9	45
10	Designing Ultraflexible Perovskite Xâ€Ray Detectors through Interface Engineering. Advanced Science, 2020, 7, 2002586.	11.2	44
11	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
12	Dynamics of direct X-ray detection processes in high-Z Bi2O3 nanoparticles-loaded PFO polymer-based diodes. Applied Physics Letters, 2017, 111, .	3.3	38
13	Solid State Organic X-Ray Detectors Based on Rubrene Single Crystals. IEEE Transactions on Nuclear Science, 2015, 62, 1791-1797.	2.0	36
14	Ultraâ€Stable and Robust Response to Xâ€Rays in 2D Layered Perovskite Microâ€Crystalline Films Directly Deposited on Flexible Substrate. Advanced Optical Materials, 2022, 10, 2101145.	7.3	26
15	Direct Inkjet Printing of TIPSâ€Pentacene Single Crystals onto Interdigitated Electrodes by Chemical Confinement. Advanced Materials Interfaces, 2018, 5, 1700925.	3.7	24
16	Medical Applications of Tissue-Equivalent, Organic-Based Flexible Direct X-Ray Detectors. Frontiers in Physics, 2020, 8, .	2.1	22
17	Charged-particle spectroscopy in organic semiconducting single crystals. Applied Physics Letters, 2016, 108, .	3.3	19
18	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

#	ARTICLE	IF	CITATIONS
19	Space Environment Effects on Flexible, Low-Voltage Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2017, 9, 35150-35158.	8.0	18
20	Highly efficient surface-emitting semiconductor lasers exploiting quasi-crystalline distributed feedback photonic patterns. Light: Science and Applications, 2020, 9, 54.	16.6	16
21	Characterization of an organic semiconductor diode for dosimetry in radiotherapy. Medical Physics, 2020, 47, 3658-3668.	3.0	15
22	X-Ray-Induced Modification of the Photophysical Properties of MAPbBr ₃ Single Crystals. ACS Applied Materials & Interfaces, 2021, 13, 58301-58308.	8.0	15
23	Substrate Selection for Full Exploitation of Organic Semiconductor Films: Epitaxial Rubrene on Î²-Alanine Single Crystals. Advanced Materials Interfaces, 2015, 2, 1500423.	3.7	14
24	Direct detection of 5-MeV protons by flexible organic thin-film devices. Science Advances, 2021, 7, .	10.3	11
25	Xâ€Ray Detectors With Ultrahigh Sensitivity Employing High Performance Transistors Based on a Fully Organic Small Molecule Semiconductor/Polymer Blend Active Layer. Advanced Electronic Materials, 2022, 8, .	5.1	11
26	Molecular Weight Tuning of Organic Semiconductors for Curved Organicâ€Inorganic Hybrid Xâ€Ray Detectors. Advanced Science, 2022, 9, e2101746.	11.2	10
27	Fully Textile Xâ€Ray Detectors Based on Fabricâ€Embedded Perovskite Crystals. Advanced Materials Interfaces, 2022, 9, .	3.7	3
28	All-Polymer Integrated Circuit for Monitoring the X-Ray Checking History of Luggages. , 2018, , .		0
29	Highly efficient one-dimensional quasi-crystalline THz semiconductor lasers. , 2020, , .		0