

Andrea Ciavatti

List of Publications by Year in descending order

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29
papers

1,036
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430874

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852
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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Ultra-Stable and Robust Response to X-Rays in 2D Layered Perovskite Micro-Crystalline Films Directly Deposited on Flexible Substrate. <i>Advanced Optical Materials</i> , 2022, 10, 2101145. | 7.3 | 26 |
| 2 | Molecular Weight Tuning of Organic Semiconductors for Curved Organic-Inorganic Hybrid X-Ray Detectors. <i>Advanced Science</i> , 2022, 9, e2101746. | 11.2 | 10 |
| 3 | Fully Textile X-Ray Detectors Based on Fabric-Embedded Perovskite Crystals. <i>Advanced Materials Interfaces</i> , 2022, 9, . | 3.7 | 3 |
| 4 | X-Ray Detectors With Ultrahigh Sensitivity Employing High Performance Transistors Based on a Fully Organic Small Molecule Semiconductor/Polymer Blend Active Layer. <i>Advanced Electronic Materials</i> , 2022, 8, . | 5.1 | 11 |
| 5 | Solution-Grown Organic and Perovskite X-Ray Detectors: A New Paradigm for the Direct Detection of Ionizing Radiation. <i>Advanced Materials Technologies</i> , 2021, 6, 2000475. | 5.8 | 89 |
| 6 | High-Sensitivity Flexible X-Ray Detectors based on Printed Perovskite Inks. <i>Advanced Functional Materials</i> , 2021, 31, 2009072. | 14.9 | 55 |
| 7 | Direct detection of 5-MeV protons by flexible organic thin-film devices. <i>Science Advances</i> , 2021, 7, . | 10.3 | 11 |
| 8 | X-Ray-Induced Modification of the Photophysical Properties of MAPbBr ₃ Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58301-58308. | 8.0 | 15 |
| 9 | Designing Ultraflexible Perovskite X-Ray Detectors through Interface Engineering. <i>Advanced Science</i> , 2020, 7, 2002586. | 11.2 | 44 |
| 10 | Characterization of an organic semiconductor diode for dosimetry in radiotherapy. <i>Medical Physics</i> , 2020, 47, 3658-3668. | 3.0 | 15 |
| 11 | Medical Applications of Tissue-Equivalent, Organic-Based Flexible Direct X-Ray Detectors. <i>Frontiers in Physics</i> , 2020, 8, . | 2.1 | 22 |
| 12 | Morphology and mobility as tools to control and unprecedentedly enhance X-ray sensitivity in organic thin-films. <i>Nature Communications</i> , 2020, 11, 2136. | 12.8 | 59 |
| 13 | Highly efficient surface-emitting semiconductor lasers exploiting quasi-crystalline distributed feedback photonic patterns. <i>Light: Science and Applications</i> , 2020, 9, 54. | 16.6 | 16 |
| 14 | Highly efficient one-dimensional quasi-crystalline THz semiconductor lasers. , 2020, , . | | 0 |
| 15 | Detection of X-Rays by Solution-Processed Cesium-Containing Mixed Triple Cation Perovskite Thin Films. <i>Advanced Functional Materials</i> , 2019, 29, 1902346. | 14.9 | 74 |
| 16 | Boosting Direct X-Ray Detection in Organic Thin Films by Small Molecules Tailoring. <i>Advanced Functional Materials</i> , 2019, 29, 1806119. | 14.9 | 45 |
| 17 | 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 |
| 18 | Direct Inkjet Printing of TIPS-Pentacene Single Crystals onto Interdigitated Electrodes by Chemical Confinement. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700925. | 3.7 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | All-Polymer Integrated Circuit for Monitoring the X-Ray Checking History of Luggages. , 2018, , . | | 0 |
| 20 | Space Environment Effects on Flexible, Low-Voltage Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2017, 9, 35150-35158. | 8.0 | 18 |
| 21 | 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 |
| 22 | Dynamics of direct X-ray detection processes in high-Z Bi ₂ O ₃ nanoparticles-loaded PFO polymer-based diodes. Applied Physics Letters, 2017, 111, . | 3.3 | 38 |
| 23 | Charged-particle spectroscopy in organic semiconducting single crystals. Applied Physics Letters, 2016, 108, . | 3.3 | 19 |
| 24 | Direct X-ray photoconversion in flexible organic thin film devices operated below 1%V. Nature Communications, 2016, 7, 13063. | 12.8 | 130 |
| 25 | Toward Low-Voltage and Bendable X-Ray Direct Detectors Based on Organic Semiconducting Single Crystals. Advanced Materials, 2015, 27, 7213-7220. | 21.0 | 72 |
| 26 | Substrate Selection for Full Exploitation of Organic Semiconductor Films: Epitaxial Rubrene on L-Alanine Single Crystals. Advanced Materials Interfaces, 2015, 2, 1500423. | 3.7 | 14 |
| 27 | Solid State Organic X-Ray Detectors Based on Rubrene Single Crystals. IEEE Transactions on Nuclear Science, 2015, 62, 1791-1797. | 2.0 | 36 |
| 28 | Organic semiconducting single crystals as solid-state sensors for ionizing radiation. Faraday Discussions, 2014, 174, 219-234. | 3.2 | 45 |
| 29 | Organic Semiconducting Single Crystals as Next Generation of Low-Cost, Room-Temperature Electrical X-Ray Detectors. Advanced Materials, 2012, 24, 2289-2293. | 21.0 | 84 |