

Dario Natali

List of Publications by Year in descending order

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69
papers

3,276
citations

218677

26
h-index

144013

57
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69
all docs

69
docs citations

69
times ranked

4638
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution-Based Integration of Vertically Stacked Organic Photodetectors Toward Easy-to-Fabricate Filterless Multi-Color Light Sensors. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	8
2	Photo-electrical properties of 2D quantum confined metal-organic chalcogenide nanocrystal films. <i>Nanoscale</i> , 2021, 13, 233-241.	5.6	16
3	Fundamentals of organic electronic devices. , 2021, , 1-25.		0
4	Platinum diimine-dithiolate complexes as a new class of photoconducting compounds for pristine photodetectors: case study on [Pt(bipy)(Naph-edt)] (bipy = 2,2'-bipyridine; Naph-edt = 2,2'-naphthalene-1,3,5-triyl-tris(ethylenedithio))	1.0	0
5	A 13.56 MHz Rectifier Based on Fully Inkjet Printed Organic Diodes. <i>Advanced Materials</i> , 2020, 32, e2002329.	21.0	31
6	Photoconducting Devices with Response in the Visible-Near-Infrared Region Based on Neutral Ni Complexes of Aryl-1,2-dithiolenes. <i>Inorganic Chemistry</i> , 2020, 59, 6410-6421.	4.0	7
7	Inkjet printed organic detectors with flat responsivity up to the NIR and inherent UV optical filtering. <i>Synthetic Metals</i> , 2019, 254, 92-96.	3.9	3
8	Inkjet printed hybrid light sensors based on titanium dioxide and PEDOT:PSS. <i>Semiconductor Science and Technology</i> , 2019, 34, 024005.	2.0	6
9	Reproducible, High Performance Fully Printed Photodiodes on Flexible Substrates through the Use of a Polyethylenimine Interlayer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32380-32386.	8.0	27
10	Fully Organic Photocontrolled Deformable Mirror. <i>Advanced Optical Materials</i> , 2018, 6, 1800361.	7.3	1
11	Organic Imagers. , 2018, , 129-149.		0
12	Printable UV detector arrays based on light-induced conductance switching in mesoporous titanium dioxide. <i>Organic Electronics</i> , 2017, 49, 100-106.	2.6	1
13	Simultaneous Extraction of Density of States Width, Carrier Mobility and Injection Barriers in Organic Semiconductors. <i>Scientific Reports</i> , 2017, 7, 3803.	3.3	11
14	High-Mobility Naphthalene Diimide and Selenophene-Vinylene-Based Conjugated Polymer: Channel Organic Field-Effect Transistors and Structure-Property Relationship. <i>Advanced Functional Materials</i> , 2016, 26, 4984-4997.	14.9	75
15	Photocontrolled deformable mirrors as potential technology for astronomical instrumentation. , 2016, , .		0
16	Inkjet printed polymeric electron blocking and surface energy modifying layer for low dark current organic photodetectors. <i>Organic Electronics</i> , 2016, 36, 29-34.	2.6	30
17	Zinc selenide-based large aperture photo-controlled deformable mirror. <i>Optics Letters</i> , 2016, 41, 2573.	3.3	4
18	Injection Length in Staggered Organic Thin Film Transistors: Assessment and Implications for Device Downscaling. <i>Advanced Electronic Materials</i> , 2016, 2, 1600097.	5.1	25

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19	Photo controlled deformable mirrors: materials choice and device modeling. Optical Materials Express, 2016, 6, 620.	3.0	7
20	Two-dimensional charge transport in molecularly ordered polymer field-effect transistors. Journal of Materials Chemistry C, 2016, 4, 11135-11142.	5.5	22
21	Organic photodetectors. , 2016, , 195-254.		12
22	Fully-printed, all-polymer integrated twilight switch. Semiconductor Science and Technology, 2015, 30, 104005.	2.0	12
23	Printed photodetectors. Semiconductor Science and Technology, 2015, 30, 104006.	2.0	33
24	Charge transport characterization in a squaraine-based photodetector by means of admittance spectroscopy. Organic Electronics, 2015, 22, 56-61.	2.6	19
25	Assessing the width of Gaussian density of states in organic semiconductors. Organic Electronics, 2015, 17, 304-318.	2.6	41
26	Organic integrated circuits for information storage based on ambipolar polymers and charge injection engineering. Applied Physics Letters, 2014, 104, 153303.	3.3	24
27	A fulleropyrrolidine-squaraine blue dyad: synthesis and application as an organic light detector. Journal of Materials Chemistry C, 2014, 2, 1396-1399.	5.5	14
28	All-Organic and Fully-Printed Semitransparent Photodetectors Based on Narrow Bandgap Conjugated Molecules. Advanced Materials, 2014, 26, 6773-6777.	21.0	88
29	Synthesis, Electronic Structure, and Charge Transport Characteristics of Naphthalenediimide-Based Co-Polymers with Different Oligothiophene Donor Units. Advanced Functional Materials, 2014, 24, 1151-1162.	14.9	65
30	Organic Light Detectors: Photodiodes and Phototransistors. Advanced Materials, 2013, 25, 4267-4295.	21.0	1,088
31	Integration of an Organic Photodetector onto a Plastic Optical Fiber by Means of Spray Coating Technique. Advanced Materials, 2013, 25, 4335-4339.	21.0	55
32	Fully Inkjet-Printed Organic Photodetectors with High Quantum Yield. Advanced Materials, 2013, 25, 6829-6833.	21.0	134
33	Multi-Layer Organic Squaraine-Based Photodiode for Indirect X-Ray Detection. IEEE Transactions on Nuclear Science, 2012, 59, 1862-1867.	2.0	11
34	Panchromatic squaraine compounds for broad band light harvesting electronic devices. Journal of Materials Chemistry, 2012, 22, 6704.	6.7	45
35	Electric field and charge distribution imaging with sub-micron resolution in an organic Thin-Film Transistor. Organic Electronics, 2012, 13, 66-70.	2.6	16
36	Charge Injection in Solution-Processed Organic Field-Effect Transistors: Physics, Models and Characterization Methods. Advanced Materials, 2012, 24, 1357-1387.	21.0	389

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37	Modeling and Simulation of Organic Solar Cells. Mathematics in Industry, 2012, , 329-337.	0.3	0
38	High detectivity squaraine-based near infrared photodetector with nA/cm ² dark current. Applied Physics Letters, 2011, 98, 073303.	3.3	94
39	Organic based photodetectors: Suitability for X- and γ -rays sensing application. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 624, 443-448.	1.6	22
40	Efficient charge injection from a high work function metal in high mobility n-type polymer field-effect transistors. Applied Physics Letters, 2010, 96, .	3.3	73
41	Squaraine-based organic photodetector coupled to a scintillating crystal for X-ray sensing applications. , 2009, , .		4
42	Multi layer structure for encapsulation of organic transistors. Organic Electronics, 2009, 10, 692-695.	2.6	16
43	Fast and air stable near-infrared organic detector based on squaraine dyes. Organic Electronics, 2009, 10, 1314-1319.	2.6	58
44	Suitability of 3,4-dialkyl substitution in molecular crystal based on thiophene-fluorenone for organic field effect transistors. Synthetic Metals, 2009, 159, 513-517.	3.9	12
45	Effect of the silanization and annealing on the morphology of thin poly(3-hexylthiophene) (P3HT) layer on silicon oxide. Surface Science, 2008, 602, 3106-3115.	1.9	27
46	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si84.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Al} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mtext} \rangle$ as gate dielectric for organic transistors: Charge transport phenomena in poly-(3-hexylthiophene) based devices. Organic Electronics, 2008, 9, 198-208.	2.6	41
47	Modeling of organic thin film transistors: Effect of contact resistances. Journal of Applied Physics, 2007, 101, 014501.	2.5	133
48	External quantum efficiency versus charge carriers mobility in polythiophene/methanofullerene based planar photodetectors. Journal of Applied Physics, 2007, 102, 024503.	2.5	27
49	Trapping effects on the frequency response of dithiolene-based planar photodetectors. Synthetic Metals, 2007, 157, 984-987.	3.9	11
50	Space charge effects on the active region of a planar organic photodetector. Journal of Applied Physics, 2007, 101, 114504.	2.5	32
51	First example of a near-IR photodetector based on neutral [M(R-dmet) ₂] bis(1,2-dithiolene) metal complexes. Inorganic Chemistry Communication, 2007, 10, 191-194.	3.9	31
52	Atomic layer deposited Al ₂ O ₃ as a capping layer for polymer based transistors. Organic Electronics, 2007, 8, 407-414.	2.6	65
53	Oligo- and polymeric FET devices: Thiophene-based active materials and their interaction with different gate dielectrics. Materials Science and Engineering C, 2006, 26, 996-1001.	7.3	9
54	Near-infrared photodetection with a diruthenium complex having redox-switchable wavelength response. Optical Materials, 2006, 28, 1362-1365.	3.6	3

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55	Organic memory device based on 3,3'-bis-(3,5-di-tert-butyl-4-methoxyphenyl)-2,2'-bithiophene with high endurance and robustness to ambient air operation. Applied Physics Letters, 2006, 89, 2435-19.	3.3	22
56	Mobility anisotropy in Langmuir-Blodgett deposited poly(3-methoxypentyl-thiophene)-based thin film transistors. Thin Solid Films, 2005, 472, 238-241.	1.8	16
57	Fluorenone-thiophene derivative for organic field effect transistors: A combined structural, morphological and electrical study. Thin Solid Films, 2005, 492, 212-220.	1.8	27
58	Near infrared detection by means of coordination complexes. Synthetic Metals, 2005, 153, 273-276.	3.9	9
59	Monoreduced [M(R,S-dithiolene) ₂] dithiolenes (M = Ni, Pd, Pt; R,S-dithiolene = disubstituted) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.1	34
60	Organic photodetectors spectrally matched to optical fiber communication windows. , 2004, , .		1
61	Organic FET devices: structure-property relationship in evaporated films of three fluorenone derivatives. Synthetic Metals, 2004, 146, 259-263.	3.9	14
62	Detectors based on organic materials: status and perspectives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 512, 419-426.	1.6	45
63	Wavelength-selective organic photodetectors for near-infrared applications based on novel neutral dithiolenes. Synthetic Metals, 2003, 137, 1489-1490.	3.9	22
64	Organic photodetectors: a possible technology for on-fiber receivers. , 2003, , .		0
65	Field-dependent mobility from space-charge-limited current-voltage curves. Journal of Applied Physics, 2002, 92, 5310-5318.	2.5	35
66	Conduction and degradation analysis of organic LEDs by current noise monitoring. , 2002, , .		1
67	Field-dependent mobility evaluation from steady-state space-charge-limited I-V curves. , 2002, 4464, 223.		0
68	Photoinduced conductivity and nonlinear optical properties of [M(R,S-dithiolene) ₂] dithiolenes (M=Ni, Pd,) Tj ETQq0 0 0 rgBT /Overlock 1 photodetectors. Inorganic Chemistry Communication, 2002, 5, 869-872.	3.9	54
69	Current noise spectroscopy on mLPPP based organic light emitting diodes. Organic Electronics, 2002, 3, 33-42.	2.6	13