Dario Natali

List of Publications by Year
in descending order

69 papers	3,276 citations	218677 26 h-index	144013 57 g-index
69 all docs	69 docs citations	69 times ranked	4638 citing authors

#	Article	IF	Citations
1	Organic Light Detectors: Photodiodes and Phototransistors. Advanced Materials, 2013, 25, 4267-4295.	21.0	1,088
2	Charge Injection in Solutionâ€Processed Organic Fieldâ€Effect Transistors: Physics, Models and Characterization Methods. Advanced Materials, 2012, 24, 1357-1387.	21.0	389
3	Fully Inkjetâ€Printed Organic Photodetectors with High Quantum Yield. Advanced Materials, 2013, 25, 6829-6833.	21.0	134
4	Modeling of organic thin film transistors: Effect of contact resistances. Journal of Applied Physics, 2007, 101, 014501.	2.5	133
5	High detectivity squaraine-based near infrared photodetector with nA/cm2 dark current. Applied Physics Letters, 2011, 98, 073303.	3.3	94
6	Allâ€Organic and Fullyâ€Printed Semitransparent Photodetectors Based on Narrow Bandgap Conjugated Molecules. Advanced Materials, 2014, 26, 6773-6777.	21.0	88
7	Highâ€Mobility Naphthalene Diimide and Selenopheneâ€Vinyleneâ€Selenopheneâ€Based Conjugated Polymer: nâ€Channel Organic Fieldâ€Effect Transistors and Structureâ€“Property Relationship. Advanced Functional Materials, 2016, 26, 4984-4997.	14.9	75
8	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
9	Atomic layer deposited Al2O3 as a capping layer for polymer based transistors. Organic Electronics, 2007, 8, 407-414.	2.6	65
10	Synthesis, Electronic Structure, and Charge Transport Characteristics of Naphthalenediimideâ€Based Coâ€Polymers with Different Oligothiophene Donor Units. Advanced Functional Materials, 2014, 24, 1151-1162.	14.9	65
11	Fast and air stable near-infrared organic detector based on squaraine dyes. Organic Electronics, 2009, 10, 1314-1319.	2.6	58
12	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
13	Photoinduced conductivity and nonlinear optical properties of [M(R,Râ€²timdt)2] dithiolenes (M=Ni, Pd,) Tj ETQq1 1 0.784314 rgBT /O photodetectors. Inorganic Chemistry Communication, 2002, 5, 869-872.	3.9	54
14	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
15	Panchromatic squaraine compounds for broad band light harvesting electronic devices. Journal of Materials Chemistry, 2012, 22, 6704.	6.7	45
16	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si84.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Al</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:m as gate dielectric for organic transistors: Charge transport phenomena in poly-(3-hexylthiophene) based devices. Organic Electronics, 2008, 9, 198-208.	2.6	41
17	Assessing the width of Gaussian density of states in organic semiconductors. Organic Electronics, 2015, 17, 304-318.	2.6	41
18	Field-dependent mobility from space-charge-limited currentâ€“voltage curves. Journal of Applied Physics, 2002, 92, 5310-5318.	2.5	35

#	Article	IF	Citations
19	Monoreduced [M(R,Râ€²timdt)2]â¯dithiolenes (M = Ni, Pd, Pt; R,Râ€²timdt = disubstituted) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf window. Chemical Communications, 2004, , 1882-1883.	4.1	34
20	Printed photodetectors. Semiconductor Science and Technology, 2015, 30, 104006.	2.0	33
21	Space charge effects on the active region of a planar organic photodetector. Journal of Applied Physics, 2007, 101, 114504.	2.5	32
22	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
23	A 13.56ÂMHz Rectifier Based on Fully Inkjet Printed Organic Diodes. Advanced Materials, 2020, 32, e2002329.	21.0	31
24	Inkjet printed polymeric electron blocking and surface energy modifying layer for low dark current organic photodetectors. Organic Electronics, 2016, 36, 29-34.	2.6	30
25	Fluorenoneâ€“thiophene derivative for organic field effect transistors: A combined structural, morphological and electrical study. Thin Solid Films, 2005, 492, 212-220.	1.8	27
26	External quantum efficiency versus charge carriers mobility in polythiophene/methanofullerene based planar photodetectors. Journal of Applied Physics, 2007, 102, 024503.	2.5	27
27	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
28	Reproducible, High Performance Fully Printed Photodiodes on Flexible Substrates through the Use of a Polyethylenimine Interlayer. ACS Applied Materials & Interfaces, 2018, 10, 32380-32386.	8.0	27
29	Injection Length in Staggered Organic Thin Film Transistors: Assessment and Implications for Device Downscaling. Advanced Electronic Materials, 2016, 2, 1600097.	5.1	25
30	Organic integrated circuits for information storage based on ambipolar polymers and charge injection engineering. Applied Physics Letters, 2014, 104, 153303.	3.3	24
31	Wavelength-selective organic photodetectors for near-infrared applications based on novel neutral dithiolenes. Synthetic Metals, 2003, 137, 1489-1490.	3.9	22
32	Organic memory device based on 3,3â€²-bis-(3,5-di-tert-butyl-4- methoxyphenyl)-2,2â€²-bithiophene with high endurance and robustness to ambient air operation. Applied Physics Letters, 2006, 89, 243519.	3.3	22
33	Organic based photodetectors: Suitability for X- and Î“-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
34	Two-dimensional charge transport in molecularly ordered polymer field-effect transistors. Journal of Materials Chemistry C, 2016, 4, 11135-11142.	5.5	22
35	Charge transport characterization in a squaraine-based photodetector by means of admittance spectroscopy. Organic Electronics, 2015, 22, 56-61.	2.6	19
36	Mobility anisotropy in Langmuirâ€“Blodgett deposited poly(3-methoxypentyl-tiophene)-based thin film transistors. Thin Solid Films, 2005, 472, 238-241.	1.8	16

#	Article	IF	Citations
37	Multi layer structure for encapsulation of organic transistors. Organic Electronics, 2009, 10, 692-695.	2.6	16
38	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
39	Photo-electrical properties of 2D quantum confined metalâ€“organic chalcogenide nanocrystal films. Nanoscale, 2021, 13, 233-241.	5.6	16
40	Organic FET devices: structureâ€“property relationship in evaporated films of three fluorenone derivatives. Synthetic Metals, 2004, 146, 259-263.	3.9	14
41	A fulleropyrrolidineâ€“squaraine blue dyad: synthesis and application as an organic light detector. Journal of Materials Chemistry C, 2014, 2, 1396-1399.	5.5	14
42	Current noise spectroscopy on mLPPP based organic light emitting diodes. Organic Electronics, 2002, 3, 33-42.	2.6	13
43	Suitability of 3,4-dialkyl substitution in molecular crystal based on thiopheneâ€“fluorenone for organic field effect transistors. Synthetic Metals, 2009, 159, 513-517.	3.9	12
44	Fully-printed, all-polymer integrated twilight switch. Semiconductor Science and Technology, 2015, 30, 104005.	2.0	12
45	Organic photodetectors. , 2016, , 195-254.		12
46	Trapping effects on the frequency response of dithiolene-based planar photodetectors. Synthetic Metals, 2007, 157, 984-987.	3.9	11
47	Multi-Layer Organic Squaraine-Based Photodiode for Indirect X-Ray Detection. IEEE Transactions on Nuclear Science, 2012, 59, 1862-1867.	2.0	11
48	Simultaneous Extraction of Density of States Width, Carrier Mobility and Injection Barriers in Organic Semiconductors. Scientific Reports, 2017, 7, 3803.	3.3	11
49	Near infrared detection by means of coordination complexes. Synthetic Metals, 2005, 153, 273-276.	3.9	9
50	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
51	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
52	Photo controlled deformable mirrors: materials choice and device modeling. Optical Materials Express, 2016, 6, 620.	3.0	7
53	Photoconducting Devices with Response in the Visibleâ€“Near-Infrared Region Based on Neutral Ni Complexes of Aryl-1,2-dithiolene Ligands. Inorganic Chemistry, 2020, 59, 6410-6421.	4.0	7
54	Inkjet printed hybrid light sensors based on titanium dioxide and PEDOT:PSS. Semiconductor Science and Technology, 2019, 34, 024005.	2.0	6

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55	Platinum diimine-dithiolate complexes as a new class of photoconducting compounds for pristine photodetectors: case study on [Pt(bipy)(Naph-edt)] (bipy = 2,2â€²-bipyridine; Naph-edt^{2â¯}=) Tj ETQq1 1 0.784314 rgBT	3.1	
56	Squaraine-based organic photodetector coupled to a scintillating crystal for X-ray sensing applications. , 2009, , .		4
57	Zinc selenide-based large aperture photo-controlled deformable mirror. Optics Letters, 2016, 41, 2573.	3.3	4
58	Near-infrared photodetection with a diruthenium complex having redox-switchable wavelength response. Optical Materials, 2006, 28, 1362-1365.	3.6	3
59	Inkjet printed organic detectors with flat responsivity up to the NIR and inherent UV optical filtering. Synthetic Metals, 2019, 254, 92-96.	3.9	3
60	Conduction and degradation analysis of organic LEDs by current noise monitoring. , 2002, , .		1
61	Organic photodetectors spectrally matched to optical fiber communication windows. , 2004, , .		1
62	Printable UV detector arrays based on light-induced conductance switching in mesoporous titanium dioxide. Organic Electronics, 2017, 49, 100-106.	2.6	1
63	Fully Organic Photocontrolled Deformable Mirror. Advanced Optical Materials, 2018, 6, 1800361.	7.3	1
64	Field-dependent mobility evaluation from steady-state space-charge-limited I-V curves. , 2002, 4464, 223.		0
65	Organic photodetectors: a possible technology for on-fiber receivers. , 2003, , .		0
66	Photocontrolled deformable mirrors as potential technology for astronomical instrumentation. , 2016, , .		0
67	Fundamentals of organic electronic devices. , 2021, , 1-25.		0
68	Modeling and Simulation of Organic Solar Cells. Mathematics in Industry, 2012, , 329-337.	0.3	0
69	Organic Imagers. , 2018, , 129-149.		0