

Mauro Murgia

List of Publications by Year in descending order

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97
papers

4,997
citations

87723

38
h-index

88477

70
g-index

97
all docs

97
docs citations

97
times ranked

5179
citing authors

#	ARTICLE	IF	CITATIONS
1	Unravelling molecular disorder at SAM-functionalized charge injection interfaces in organic field-effect transistors. <i>Organic Electronics</i> , 2022, 100, 106360.	1.4	2
2	A Novel Biasing Scheme of Electrolyte-Gated Organic Transistors for Safe In Vivo Amplification of Electrophysiological Signals. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	7
3	Flexible Neural Interfaces Based on 3D PEDOT:PSS Micropillar Arrays. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	6
4	Atomic Force Microscopy Nanomechanics of Hard Nanometer-Thick Films on Soft Substrates: Insights into Stretchable Conductors. <i>ACS Applied Nano Materials</i> , 2021, 4, 8376-8382.	2.4	10
5	Evaluation of the In Vitro Biocompatibility of PEDOT:Nafion Coatings. <i>Nanomaterials</i> , 2021, 11, 2022.	1.9	10
6	A Bacterial Photosynthetic Enzymatic Unit Modulating Organic Transistors with Light. <i>Advanced Electronic Materials</i> , 2020, 6, 1900888.	2.6	19
7	Morphological Transitions in Organic Ultrathin Film Growth Imaged by In Situ Step-by-Step Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14030-14042.	1.5	11
8	Water-Based PEDOT:Nafion Dispersion for Organic Bioelectronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29807-29817.	4.0	13
9	Tunable Short-Term Plasticity Response in Three-Terminal Organic Neuromorphic Devices. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1849-1854.	2.0	16
10	Scaling of capacitance of PEDOT:PSS: volume vs. area. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11252-11262.	2.7	42
11	Stretchable Low Impedance Electrodes for Bioelectronic Recording from Small Peripheral Nerves. <i>Scientific Reports</i> , 2019, 9, 10598.	1.6	51
12	Electrodeposited PEDOT:Nafion Composite for Neural Recording and Stimulation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900765.	3.9	51
13	Understanding adhesion of gold conductive films on sodium-alginate by photoelectron spectroscopy. <i>Thin Solid Films</i> , 2019, 690, 137535.	0.8	6
14	Flexible Conductors from Brown Algae for Green Electronics. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900001.	2.7	11
15	The Substrate is a pH-Controlled Second Gate of Electrolyte-Gated Organic Field-Effect Transistor. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31783-31790.	4.0	17
16	Electrolyte-gated organic synapse transistor interfaced with neurons. <i>Organic Electronics</i> , 2016, 38, 21-28.	1.4	69
17	Water-gated organic transistors on polyethylene naphthalate films. <i>Flexible and Printed Electronics</i> , 2016, 1, 025005.	1.5	14
18	Charge density increase in submonolayer organic field-effect transistors. <i>Physical Review B</i> , 2015, 91, .	1.1	13

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19	Changes of the molecular structure in organic thin film transistors during operation. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s522-s522.	0.0	0
20	Charge Transfer and Percolation in C60/Pentacene Field-Effect Transistors. Advanced Electronic Materials, 2015, 1, 1400036.	2.6	16
21	Low voltage and time constant organic synapse-transistor. Organic Electronics, 2015, 21, 47-53.	1.4	40
22	Changes of the Molecular Structure in Organic Thin Film Transistors during Operation. Journal of Physical Chemistry C, 2015, 119, 15912-15918.	1.5	10
23	Electrochemical Fabrication of Surface Chemical Gradients in Thiol Self-Assembled Monolayers with Tailored Work-Functions. Langmuir, 2014, 30, 11591-11598.	1.6	13
24	Organic ultra-thin film transistors with a liquid gate for extracellular stimulation and recording of electric activity of stem cell-derived neuronal networks. Physical Chemistry Chemical Physics, 2013, 15, 3897.	1.3	82
25	And Yet it Moves! Microfluidics Without Channels and Troughs. Advanced Functional Materials, 2013, 23, 5543-5549.	7.8	22
26	Water-gated organic field effect transistors " opportunities for biochemical sensing and extracellular signal transduction. Journal of Materials Chemistry B, 2013, 1, 3728.	2.9	131
27	Facile maskless fabrication of organic field effect transistors on biodegradable substrates. Applied Physics Letters, 2013, 103, 073302.	1.5	16
28	Double layer capacitance measured by organic field effect transistor operated in water. Applied Physics Letters, 2012, 100, .	1.5	69
29	Regenerable Resistive Switching in Silicon Oxide Based Nanojunctions. Advanced Materials, 2012, 24, 1197-1201.	11.1	52
30	A high-vacuum deposition system for in situ and real-time electrical characterization of organic thin-film transistors. Review of Scientific Instruments, 2011, 82, 025110.	0.6	11
31	Layered Distribution of Charge Carriers in Organic Thin Film Transistors. Physical Review Letters, 2010, 104, 246602.	2.9	130
32	Excimer Emission in Single Layer Electroluminescent Devices Based on [Ir(4,5-diphenyl-2-methylthiazolo) ₂ (5-methyl-1,10-phenanthroline)] ⁺ PF ₆ ⁻ . Journal of Physical Chemistry C, 2009, 113, 12517-12522.	4.8	48
33	Efficient second harmonic generation from thin films of V-shaped benzo[b]thiophene based molecules. Optics Express, 2009, 17, 2557.	1.7	12
34	Investigation of the Optoelectronic Properties of Organic Light-Emitting Transistors Based on an Intrinsically Ambipolar Material. Journal of Physical Chemistry C, 2008, 112, 12993-12999.	1.5	42
35	Correlation between Dielectric/Organic Interface Properties and Key Electrical Parameters in PPV-based OFETs. Journal of Physical Chemistry B, 2008, 112, 10130-10136.	1.2	51
36	Influence of the dielectric and of the active layer doping on the FET mobility in PPV-based devices. , 2007, , .		0

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37	Intragap-trapped-carriers enhancement of the low-temperature delayed phosphorescence in Alq3. <i>Organic Electronics</i> , 2007, 8, 256-261.	1.4	1
38	Degradation of organic light-emitting diodes under different environment at high drive conditions. <i>Organic Electronics</i> , 2007, 8, 37-43.	1.4	78
39	Room temperature deposition of magnetite thin films on organic substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, 410-412.	1.0	11
40	Magnetic properties of Cobalt thin films deposited on soft organic layers. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e987-e989.	1.0	26
41	J-Aggregation in $\hat{I}\pm$ -Sexithiophene Submonolayer Films on Silicon Dioxide. <i>Journal of the American Chemical Society</i> , 2006, 128, 4277-4281.	6.6	99
42	Effects of Surface Chemical Composition on the Early Growth Stages of $\hat{I}\pm$ -Sexithienyl Films on Silicon Oxide Substrates. <i>Journal of Physical Chemistry B</i> , 2006, 110, 258-263.	1.2	37
43	Light extraction and customized optical distribution from plastic micro-optics integrated OLEDs. , 2006, , .		0
44	Degradation of organic light-emitting diode. , 2006, 6192, 442.		0
45	Ambipolar light-emitting field-effect transistors based on molecular thin films. , 2006, 6333, 147.		1
46	Tuning Optoelectronic Properties of Ambipolar Organic Light- Emitting Transistors Using a Bulk-Heterojunction Approach. <i>Advanced Functional Materials</i> , 2006, 16, 41-47.	7.8	131
47	High-Mobility Ambipolar Transport in Organic Light-Emitting Transistors. <i>Advanced Materials</i> , 2006, 18, 1416-1420.	11.1	220
48	Enhanced light emission efficiency and current stability by morphology control and thermal annealing of organic light emitting diode devices. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2139-S2147.	0.7	18
49	Ambipolar organic light-emitting transistors employing heterojunctions of n-type and p-type materials as the active layer. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2127-S2138.	0.7	22
50	Efficient light extraction and beam shaping from flexible, optically integrated organic light-emitting diodes. <i>Applied Physics Letters</i> , 2006, 88, 153514.	1.5	32
51	Solid-state dye PV cells using inverse opal TiO2 films. <i>Solar Energy Materials and Solar Cells</i> , 2005, 87, 513-519.	3.0	59
52	Morphology and Field-Effect-Transistor Mobility in Tetracene Thin Films. <i>Advanced Functional Materials</i> , 2005, 15, 375-380.	7.8	111
53	Electrical characterization of organic based transistors: stability issues. <i>Polymers for Advanced Technologies</i> , 2005, 16, 227-231.	1.6	48
54	Mechanism of dark-spot degradation of organic light-emitting devices. <i>Applied Physics Letters</i> , 2005, 86, 041105.	1.5	53

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55	Molecular orientation in ultrathin films of $\hat{\pm}$ -sexithiophene on silicon dioxide revealed by spatially resolved confocal spectroscopy. <i>Synthetic Metals</i> , 2005, 155, 287-290.	2.1	6
56	Electronic transport in field-effect transistors of sexithiophene. <i>Journal of Applied Physics</i> , 2004, 96, 5277-5283.	1.1	74
57	Supramolecular organization in ultra-thin films of $\hat{\pm}$ -sexithiophene on silicon dioxide. <i>Nature Materials</i> , 2004, 4, 81-85.	13.3	205
58	Spatially Correlated Charge Transport in Organic Thin Film Transistors. <i>Physical Review Letters</i> , 2004, 92, 116802.	2.9	582
59	Spin polarised electrodes for organic light emitting diodes. <i>Organic Electronics</i> , 2004, 5, 309-314.	1.4	54
60	Transparent manganite films as hole injectors for organic light emitting diodes. <i>Journal of Luminescence</i> , 2004, 110, 384-388.	1.5	28
61	Bias-induced threshold voltages shifts in thin-film organic transistors. <i>Applied Physics Letters</i> , 2004, 84, 3184-3186.	1.5	189
62	Ambipolar light-emitting organic field-effect transistor. <i>Applied Physics Letters</i> , 2004, 85, 1613-1615.	1.5	302
63	Light-emitting ambipolar organic heterostructure field-effect transistor. <i>Synthetic Metals</i> , 2004, 146, 237-241.	2.1	65
64	Thermal annealing effects on morphology and electrical response in ultrathin film organic transistors. <i>Synthetic Metals</i> , 2004, 146, 373-376.	2.1	36
65	Tetracene-based organic light-emitting transistors: optoelectronic properties and electron injection mechanism. <i>Synthetic Metals</i> , 2004, 146, 329-334.	2.1	104
66	A potential J aggregate molecular system: crystal packing and optical properties of 4,4'-bis(2,3,4,5,6-pentafluorostyryl)stilbene. <i>Synthetic Metals</i> , 2003, 139, 909-912.	2.1	9
67	Organic light emitting diodes with spin polarized electrodes. <i>Journal of Applied Physics</i> , 2003, 93, 7682-7683.	1.1	49
68	Weak intrinsic charge transfer complexes: A new route for developing wide spectrum organic photovoltaic cells. <i>Journal of Chemical Physics</i> , 2002, 116, 1713-1719.	1.2	60
69	Organic-Inorganic Hybrid Spin-Valve: A Novel Approach to Spintronics. <i>Phase Transitions</i> , 2002, 75, 1049-1058.	0.6	16
70	Nanoimprint lithography for organic electronics. <i>Microelectronic Engineering</i> , 2002, 61-62, 25-31.	1.1	69
71	Direct patterning of tris-(8-hydroxyquinoline)-aluminum (III) thin film at submicron scale by modified micro-transfer molding. <i>Materials Science and Engineering C</i> , 2002, 19, 275-278.	3.8	5
72	Room temperature spin polarized injection in organic semiconductor. <i>Solid State Communications</i> , 2002, 122, 181-184.	0.9	663

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73	Interface state mapping in a Schottky barrier of the organic semiconductor terrylene. <i>Organic Electronics</i> , 2002, 3, 43-51.	1.4	50
74	Time-resolved stimulated emission in an $\hat{1}\pm$ -sexithienyl thin film. <i>Synthetic Metals</i> , 2001, 116, 49-51.	2.1	0
75	Intedigitated p-n junction: a route to improve the efficiency in organic photovoltaic cells. <i>Synthetic Metals</i> , 2001, 121, 1533-1534.	2.1	16
76	Excimer-like electroluminescence from thin films of switchable supermolecular anthracene-based rotaxanes. <i>Synthetic Metals</i> , 2001, 122, 27-29.	2.1	7
77	Temperature dependent optical emission efficiency in vacuum sublimed $\hat{1}\pm$ -sexithienyl thin films. <i>Synthetic Metals</i> , 2001, 121, 1347-1348.	2.1	0
78	Morphology Controlled Energy Transfer in Conjugated Molecular Thin Films. <i>Advanced Materials</i> , 2001, 13, 355-358.	11.1	54
79	Patterning a Conjugated Molecular Thin Film at Submicron Scale by Modified Microtransfer Molding. <i>Nano Letters</i> , 2001, 1, 193-195.	4.5	51
80	Optical and electroemission properties of thin films of supermolecular anthracene-based rotaxanes. <i>Applied Surface Science</i> , 2001, 175-176, 369-373.	3.1	7
81	Nanostructured Organic Thin Films: Electronic Energetics and Devices. <i>International Journal of Modern Physics B</i> , 2001, 15, 3722-3726.	1.0	6
82	Observation of Phonon Resonances in the Optical Nonlinearity in an $\hat{?}$ -Sexithienyl Thin Film. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 561-565.	0.7	0
83	Femtosecond differential transmission spectroscopy of $\hat{1}\pm$ -sexithienyl thin film. <i>Journal of Luminescence</i> , 2000, 87-89, 736-738.	1.5	3
84	Luminescence quantum yield of molecular aggregates and excitons in $\hat{1}\pm$ -sexithienyl thin films at variable temperature. <i>Journal of Applied Physics</i> , 2000, 88, 5158-5165.	1.1	43
85	Femtosecond Differential Transmission Spectroscopy of $\hat{1}\pm$ -Sexithienyl Thin Film at Low Temperature. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6536-6540.	1.2	4
86	Optical properties and the photoluminescence quantum yield of organic molecular materials. <i>Journal of Optics</i> , 2000, 2, 577-583.	1.5	11
87	Size of Electron-Hole Pairs in $\hat{1}\pm$ -Conjugated Systems. <i>Physical Review Letters</i> , 1999, 83, 1443-1446.	2.9	70
88	Photoinduced charge transfer in complex architected films of c60 and donor-like molecules. <i>Synthetic Metals</i> , 1999, 103, 2392-2394.	2.1	17
89	Raman and far infrared characterization of the simplest benzylic amide [2] catenane. <i>Synthetic Metals</i> , 1999, 102, 1556-1557.	2.1	2
90	Femtosecond Transient Absorption Spectroscopy in $\hat{1}\pm$ -sexithienyl thin films. <i>Synthetic Metals</i> , 1999, 101, 555-556.	2.1	1

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91	Morphology dependent fluorescence in $\hat{I}\pm$ -sexithienyl thin film at 4.2k. Synthetic Metals, 1999, 101, 592-593.	2.1	6
92	In-situ characterisation of the oxygen induced changes in a UHV grown organic light-emitting diode. Synthetic Metals, 1999, 102, 1095-1096.	2.1	11
93	Disorder influenced optical properties of $\hat{I}\pm$ -sexithiophene single crystals and thin evaporated films. Chemical Physics, 1998, 227, 49-56.	0.9	54
94	Organic heteromultilayers: electronic structure of sexithienyl/ thin films grown in ultra-high vacuum. Journal of Optics, 1998, 7, 151-157.	0.5	1
95	<title>Optical properties of fullerene-based heteromultilayers grown by molecular beam deposition</title>. , 1996, , .		2
96	Organic Light-Emitting Transistors. , 0, , .		0
97	Implantable Organic Artificial Synapses Exhibiting Crossover between Depressive and Facilitative Plasticity Response. Advanced Electronic Materials, 0, , 2100755.	2.6	5