Mauro Furno

List of Publications by Year in descending order

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39 papers	1,831 citations	331259 21 h-index	377514 34 g-index
40 all docs	40 docs citations	40 times ranked	1756 citing authors

#	Article	IF	Citations
1	Quantification of energy loss mechanisms in organic light-emitting diodes. Applied Physics Letters, 2010, 97, .	1.5	302
2	Efficiency and rate of spontaneous emission in organic electroluminescent devices. Physical Review B, 2012, 85, .	1.1	254
3	Molecular-scale simulation of electroluminescence in a multilayer white organic light-emitting diode. Nature Materials, 2013, 12, 652-658.	13.3	146
4	Optimized efficiency and angular emission characteristics of white top-emitting organic electroluminescent diodes. Applied Physics Letters, 2009, 94, 083303.	1.5	127
5	Comparing the emissive dipole orientation of two similar phosphorescent green emitter molecules in highly efficient organic light-emitting diodes. Applied Physics Letters, 2012, 101, .	1.5	124
6	Top-emitting organic light-emitting diodes: Influence of cavity design. Applied Physics Letters, 2010, 97, .	1.5	106
7	Controlled current matching in small molecule organic tandem solar cells using doped spacer layers. Journal of Applied Physics, 2010, 107, .	1.1	92
8	Highly efficient white organic light-emitting diodes based on fluorescent blue emitters. Journal of Applied Physics, 2010, 108, .	1.1	78
9	White top-emitting organic light-emitting diodes with forward directed emission and high color quality. Organic Electronics, 2010, 11, 1676-1682.	1.4	67
10	Correlation of Absorption Profile and Fill Factor in Organic Solar Cells: The Role of Mobility Imbalance. Advanced Energy Materials, 2013, 3, 631-638.	10.2	50
11	Organic light-emitting diodes for lighting: High color quality by controlling energy transfer processes in host-guest-systems. Journal of Applied Physics, 2012, 111, 033102.	1.1	44
12	Outcoupling efficiency in small-molecule OLEDs: from theory to experiment. Proceedings of SPIE, 2010, , .	0.8	42
13	Quantitative description of charge-carrier transport in a white organic light-emitting diode. Physical Review B, 2011, 84, .	1.1	36
14	Investigation of triplet harvesting and outcoupling efficiency in highly efficient two-color hybrid white organic light-emitting diodes. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1467-1475.	0.8	35
15	Intrinsic 4H-SiC parameters study by temperature behaviour analysis of Schottky diodes. Microelectronic Engineering, 2006, 83, 86-88.	1.1	33
16	Selective absorption enhancement in organic solar cells using light incoupling layers. Journal of Applied Physics, 2010, 107, 053117.	1.1	33
17	Influence of organic capping layers on the performance of transparent organic light-emitting diodes. Optics Letters, 2011, 36, 1443.	1.7	31
18	Transfer matrix method modelling of inhomogeneous Schottky barrier diodes on silicon carbide. Solid-State Electronics, 2007, 51, 466-474.	0.8	27

#	Article	IF	Citations
19	Systematic investigation of transparent organic light-emitting diodes depending on top metal electrode thickness. Organic Electronics, 2011, 12, 1383-1388.	1.4	26
20	Analysis of the external and internal quantum efficiency of multi-emitter, white organic light emitting diodes. Applied Physics Letters, 2012, 101, 143304.	1.5	24
21	On the Substrate Thermal Optimization in SiC-Based Backside-Mounted High-Power GaN FETs. IEEE Transactions on Electron Devices, 2007, 54, 1744-1752.	1.6	23
22	Physics-based mixed-mode reverse recovery modeling and optimization of Si PiN and MPS fast recovery diodes. Microelectronics Journal, 2006, 37, 190-196.	1.1	19
23	Highly efficient bi-directional organic light-emitting diodes by strong micro-cavity effects. Applied Physics Letters, 2011, 99, 073303.	1.5	18
24	Single carrier devices with electrical doped layers for the characterization of charge-carrier transport in organic thin-films. Applied Physics Letters, 2010, 97, 013303.	1.5	16
25	51.2: Outcoupling Enhancement Mechanism Investigation on Highly Efficient PIN OLEDs using Crystallizing Evaporation Processed Organic Outcoupling Layers. Digest of Technical Papers SID International Symposium, 2012, 43, 687-690.	0.1	13
26	Increased and balanced light emission of transparent organic light-emitting diodes by enhanced microcavity effects. Optics Letters, 2011, 36, 2931.	1.7	12
27	Efficiency enhancement of top-emitting organic light-emitting diodes using conversion dyes. Journal of Applied Physics, 2011, 110, 083118.	1.1	12
28	Coupled plasmonic modes in organic planar microcavities. Applied Physics Letters, 2012, 100, 253301.	1.5	11
29	Quantitative estimation of electronic quality of zinc phthalocyanine thin films. Physical Review B, 2011, 84, .	1.1	10
30	Novel TCAD-Oriented Definition of the off-State Breakdown Voltage in Schottky-Gate FETs: A 4Hâ€“SiC MESFET Case Study. IEEE Transactions on Electron Devices, 2008, 55, 3347-3353.	1.6	5
31	Highly efficient inverted top-emitting organic electroluminescent devices with doped charge transport layers. Proceedings of SPIE, 2010, , .	0.8	5
32	Combined effects of microcavity and dielectric capping layer on bidirectional organic light-emitting diodes. Optics Letters, 2012, 37, 2007.	1.7	4
33	Optimization of organic tandem solar cells based on small molecules. , 2010, , .		3
34	White organic light-emitting diodes with top-emitting structure for high color quality and forward-directed light emission. Proceedings of SPIE, 2010, , .	0.8	1
35	Numerical drift-diffusion modeling of organic solar cells in comparison with experimental data series. , 2010, , .		1
36	Transparente leitfÃhige Elektroden. Vakuum in Forschung Und Praxis, 2012, 24, 24-31.	0.0	1

#	Article	IF	Citations
37	Light Incoupling & Optical Optimisation of Organic Solar Cells. , 2010, , .		0
38	72.4: Invited Paper: Novel Approaches for OLED Lighting. Digest of Technical Papers SID International Symposium, 2011, 42, 1067-1070.	0.1	0
39	51.3: Topâ€Emitting OLEDs for Solid State Lighting: High Efficiency by Optical Modeling. Digest of Technical Papers SID International Symposium, 2012, 43, 691-693.	0.1	0