

Nir Tessler

List of Publications by Year in descending order

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230
papers

13,658
citations

38660

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h-index

22102

113
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234
all docs

234
docs citations

234
times ranked

11410
citing authors

#	ARTICLE	IF	CITATIONS
1	14ÅGHz Schottky Diodes Using a p-Doped Organic Polymer. <i>Advanced Materials</i> , 2022, 34, e2108524.	11.1	9
2	Illumination-Driven Energy Level Realignment at Buried Interfaces between Organic Charge Transport Layers and a Lead Halide Perovskite. <i>Solar Rrl</i> , 2022, 6, .	3.1	8
3	Self-Aligned Double Injection-Function TFT for Deep Sub-Micrometer Channels™ Length Application to Solution-Processed Indium Gallium Zinc Oxide. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 555-560.	1.6	4
4	Light-induced trap emptying revealed by intensity-dependent quantum efficiency of organic solar cells. <i>Journal of Applied Physics</i> , 2022, 131, 135501.	1.1	5
5	Radiofrequency Schottky Diodes Based on p-Doped Copper(I) Thiocyanate (CuSCN). <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29993-29999.	4.0	3
6	Double injection function InGaZnO transistor computational analysis of the patterned doping method. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	5
7	InAs Nanocrystals with Robust p-Type Doping. <i>Advanced Functional Materials</i> , 2021, 31, 2007456.	7.8	17
8	Intra-Island Coulomb Correlations in PEDOT:PSS Thin Films; Saturation of Spin Polarization Magnetoresistance. <i>Advanced Electronic Materials</i> , 2021, 7, 2001033.	2.6	3
9	Doped Organic Hole Extraction Layers in Efficient PbS and AgBiS ₂ Quantum Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 18750-18757.	4.0	16
10	Small grains as recombination hot spots in perovskite solar cells. <i>Matter</i> , 2021, 4, 1683-1701.	5.0	73
11	Spatial Distribution of Solar Cell Parameters in Multigrain Halide-Perovskite Films: A Device Model Perspective. <i>ACS Applied Energy Materials</i> , 2021, 4, 8709-8714.	2.5	3
12	Electron/hole blocking layers as ionic blocking layers in perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1888-1894.	2.7	11
13	Hall Effect in Polycrystalline Organic Semiconductors: The Effect of Grain Boundaries. <i>Advanced Functional Materials</i> , 2020, 30, 1903617.	7.8	37
14	Translating local binding energy to a device effective one. <i>Sustainable Energy and Fuels</i> , 2020, 4, 760-771.	2.5	8
15	Enhancing the Open-Circuit Voltage of Perovskite Solar Cells by Embedding Molecular Dipoles within Their Hole-Blocking Layer. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3572-3579.	4.0	30
16	Electronic-ionic coupling in perovskite based solar cells: Implications for device stability. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	10
17	15% enhancement of the photocurrent at the maximum power point of a thin film solar cell. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5618-5627.	2.5	6
18	Surface specificity and mechanistic pathway of de-fluorination of C ₆₀ F ₄₈ on coinage metals. <i>Nanoscale Advances</i> , 2020, 2, 4529-4538.	2.2	3

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19	Understanding Charge Transport in High-Mobility Doped Multicomponent Blend Organic Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000539.	2.6	15
20	Effect of the Organic Semiconductor Side Groups on the Structural and Electronic Properties of Their Interface with Dopants. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57578-57586.	4.0	7
21	Double Beneficial Role of Fluorinated Fullerene Dopants on Organic Thin-Film Transistors: Structural Stability and Improved Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28416-28425.	4.0	13
22	Hybrid image sensor of small molecule organic photodiode on CMOS – Integration and characterization. <i>Scientific Reports</i> , 2020, 10, 7594.	1.6	23
23	Structure-Property Relation in Organic-Metal Oxide Hybrid Phototransistors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15430-15438.	4.0	8
24	Insights from Device Modeling of Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 1260-1270.	8.8	68
25	Dipolar hole-blocking layers for inverted perovskite solar cells: effects of aggregation and electron transport levels. <i>JPhys Materials</i> , 2020, 3, 025002.	1.8	8
26	Effects of fast back-fusion of charge transfer excimers on magneto-photocurrent in organic light emitting diodes. <i>Journal of Chemical Physics</i> , 2020, 152, 034707.	1.2	2
27	Contact engineering in vertical hybrid field effect transistor. , 2020, , .		1
28	Surface Versus Impurity-Doping Contributions in InAs Nanocrystal Field Effect Transistor Performance. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18717-18725.	1.5	7
29	Enhancing the Open-Circuit Voltage of Perovskite Solar Cells by up to 120 mV Using Extended Phosphoniumfluorene Electrolytes as Hole Blocking Layers. <i>Advanced Energy Materials</i> , 2019, 9, 1901257.	10.2	31
30	Vertical organic transistors. , 2019, , 759-783.		0
31	Nanoparticulate Metal Oxide Top Electrode Interface Modification Improves the Thermal Stability of Inverted Perovskite Photovoltaics. <i>Nanomaterials</i> , 2019, 9, 1616.	1.9	13
32	Doping induced performance enhancement in inverted small molecule organic photodiodes operating below 1V reverse bias - Towards compatibility with CMOS for imaging applications. <i>Organic Electronics</i> , 2019, 67, 1-9.	1.4	7
33	Preventing Hysteresis in Perovskite Solar Cells by Undoped Charge Blocking Layers. <i>ACS Applied Energy Materials</i> , 2018, 1, 676-683.	2.5	35
34	The Impact of Molecular Doping on Charge Transport in High-Mobility Small-Molecule/Polymer Blend Organic Transistors. <i>Advanced Electronic Materials</i> , 2018, 4, 1700464.	2.6	63
35	Effect of g -factor anisotropy in the magnetoresponse of organic light-emitting diodes at high magnetic fields. <i>Physical Review B</i> , 2018, 98, .	1.1	7
36	Benchmarking the Electronic Processes at the Planar Organic Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23271-23279.	1.5	6

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37	Assessment of the Factors Influencing Charge-Carrier Mobility Measurements in Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1803096.	7.8	26
38	p-Doping of Copper(I) Thiocyanate (CuSCN) Hole-Transport Layers for High-Performance Transistors and Organic Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1802055.	7.8	50
39	Effect of Injection Layer Sub-Bandgap States on Electron Injection in Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6220-6227.	4.0	25
40	Reaching saturation in patterned source vertical organic field effect transistors. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	31
41	Solution-processed 2-dimensional hole-doped ionic graphene compounds. <i>Materials Horizons</i> , 2017, 4, 456-463.	6.4	3
42	Low dark leakage current in organic planar heterojunction photodiodes. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	50
43	Removing the current-limit of vertical organic field effect transistors. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	12
44	On electrode pinning and charge blocking layers in organic solar cells. <i>Journal of Applied Physics</i> , 2017, 121, 195502.	1.1	13
45	Charge blocking layers in thin-film/amorphous photovoltaics. <i>Journal of Applied Physics</i> , 2016, 120, 194502.	1.1	7
46	A Comprehensive study of the Effects of Chain Morphology on the Transport Properties of Amorphous Polymer Films. <i>Scientific Reports</i> , 2016, 6, 29092.	1.6	14
47	Hybrid complementary circuits based on p-channel organic and n-channel metal oxide transistors with balanced carrier mobilities of up to 10 ⁴ cm ² /Vs. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	24
48	Complementary inverter from patterned source electrode vertical organic field effect transistors. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	22
49	Organic-inorganic proximity effect in the magneto-conductance of vertical organic field effect transistors. <i>Applied Physics Letters</i> , 2016, 109, 033506.	1.5	3
50	The band-gap enhanced photovoltaic structure. <i>Applied Physics Letters</i> , 2016, 108, 183503.	1.5	7
51	Role of Contact Injection, Exciton Dissociation, and Recombination, Revealed through Voltage and Intensity Mapping of the Quantum Efficiency of Polymer:Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10146-10155.	1.5	11
52	Mixed Phases as a Route to Self-Passivation: Effect of π -Stacking Backbone on the Physical and Electrical Properties of Naphthalenediimide Derivatives. <i>Journal of Physical Chemistry C</i> , 2016, 120, 23221-23229.	1.5	4
53	Magnetophotocurrent in Organic Bulk Heterojunction Photovoltaic Cells at Low Temperatures and High Magnetic Fields. <i>Physical Review Applied</i> , 2016, 5, .	1.5	13
54	Small Molecule/Polymer Blend Organic Transistors with Hole Mobility Exceeding 13 cm ² /Vs. <i>Advanced Materials</i> , 2016, 28, 7791-7798.	11.1	166

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55	Thickness dependent charge transfer states and dark carriers density in vacuum deposited small molecule organic photocell. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	6
56	Research Update: Preserving the photoluminescence efficiency of near infrared emitting nanocrystals when embedded in a polymer matrix. <i>APL Materials</i> , 2016, 4, 040702.	2.2	4
57	Singleâ€Crystal Statistical Fieldâ€Effect Transistors. <i>Advanced Electronic Materials</i> , 2016, 2, 1500309.	2.6	4
58	Adding 0.2â€%V to the open circuit voltage of organic solar cells by enhancing the built-in potential. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	26
59	Schottky barrier height switching in thin metal oxide films studied in diode and solar cell device configurations. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	6
60	Accelerated weathering of carbonate rocks following the 2010 wildfire on Mount Carmel, Israel. <i>International Journal of Wildland Fire</i> , 2015, 24, 1154.	1.0	16
61	High field magneto-photocurrent in organic bulk hetero-junction photo-voltaic cells. <i>Synthetic Metals</i> , 2015, 208, 49-52.	2.1	3
62	Self-Assembled Metallic Nanowire-Based Vertical Organic Field-Effect Transistor. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2149-2152.	4.0	58
63	Field dependent thermoelectric properties of organic semiconductorsâ€”A tool to determine the nature of charge transport in materials exhibiting thermally activated transport. <i>Journal of Applied Physics</i> , 2015, 117, 105502.	1.1	9
64	On the relevance of twoâ€dimensional models for radiation of statistical sources in stratified media. <i>Radio Science</i> , 2014, 49, 1008-1021.	0.8	1
65	Analytical estimation of emission zone mean position and width in organic light-emitting diodes from emission pattern image-source interference fringes. <i>Journal of Applied Physics</i> , 2014, 115, 223101.	1.1	5
66	Experimental techniques and the underlying device physics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1119-1152.	2.4	14
67	The Relation Between Molecular Packing or Morphology and Chemical Structure or Processing Conditions: the Effect on Electronic Properties. <i>Advanced Functional Materials</i> , 2014, 24, 2530-2536.	7.8	21
68	Role of Charge Transfer States in P3HT-Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27681-27689.	1.5	20
69	Thermoelectricity in Disordered Organic Semiconductors under the Premise of the Gaussian Disorder Model and Its Variants. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3247-3253.	2.1	41
70	Short-lived charge-transfer excitons in organic photovoltaic cells studied by high-field magneto-photocurrent. <i>Nature Communications</i> , 2014, 5, 4529.	5.8	79
71	Coating and Enhanced Photocurrent of Vertically Aligned Zinc Oxide Nanowire Arrays with Metal Sulfide Materials. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13594-13599.	4.0	16
72	The Mechanism of Operation of Lateral and Vertical Organic Field Effect Transistors. <i>Israel Journal of Chemistry</i> , 2014, 54, 568-585.	1.0	40

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73	Ray-optical theory of broadband partially coherent emission. <i>Physical Review A</i> , 2013, 87, .	1.0	2
74	The Topology of Hopping in the Energy Domain of Systems with Rapidly Decaying Density of States. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24740-24745.	1.5	10
75	Exciton annihilation as bimolecular loss in organic solar cells. <i>Journal of Applied Physics</i> , 2013, 114, 154514.	1.1	28
76	Low-Temperature Molecular Vapor Deposition of Ultrathin Metal Oxide Dielectric for Low-Voltage Vertical Organic Field Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2462-2468.	4.0	29
77	Drift and Diffusion in Disordered Organic Semiconductors: The Role of Charge Density and Charge Energy Transport. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3287-3293.	1.5	39
78	Fast switching characteristics in vertical organic field effect transistors. <i>Applied Physics Letters</i> , 2013, 103, 073502.	1.5	24
79	Curvature effects on optical emission of flexible organic light-emitting diodes. <i>Optics Express</i> , 2012, 20, 7929.	1.7	7
80	Solution-processed ambipolar vertical organic field effect transistor. <i>Applied Physics Letters</i> , 2012, 100, 263306.	1.5	45
81	Efficient ray-optical scheme for radiation of incoherent sources in flexible layered formations. , 2012, , .		0
82	Charge recombination in disordered neat polymer films under imbalanced excitation conditions studied using the recombination time of flight technique. <i>Journal of Applied Physics</i> , 2012, 111, 104510.	1.1	1
83	Combining Ligand-Induced Quantum-Confined Stark Effect with Type II Heterojunction Bilayer Structure in CdTe and CdSe Nanocrystal-Based Solar Cells. <i>ACS Nano</i> , 2012, 6, 3128-3133.	7.3	30
84	Unraveling the Physics of Vertical Organic Field Effect Transistors through Nanoscale Engineering of a Self-Assembled Transparent Electrode. <i>Nano Letters</i> , 2012, 12, 4729-4733.	4.5	74
85	Sequence-Independent Synthesis of π -conjugated Arylenevinylene Oligomers using Bifunctional Thiophene Monomers. <i>Advanced Functional Materials</i> , 2012, 22, 1489-1501.	7.8	12
86	Investigation of C60F36 as low-volatility <i>p</i> -dopant in organic optoelectronic devices. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	55
87	Exciton formation as a rate limiting step for charge recombination in disordered organic molecules or polymers. <i>Journal of Applied Physics</i> , 2011, 109, 013701.	1.1	11
88	Controlling absorption enhancement in organic photovoltaic cells by patterning Au nano disks within the active layer. <i>Optics Express</i> , 2011, 19, A64.	1.7	60
89	Detection of Alkylating Agents using Electrical and Mechanical Means. <i>Journal of Physics: Conference Series</i> , 2011, 307, 012020.	0.3	2
90	Molecular control of quantum-dot internal electric field and its application to CdSe-based solar cells. <i>Nature Materials</i> , 2011, 10, 974-979.	13.3	84

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91	Harnessing "Click" Type Chemistry for the Preparation of Novel Electronic Materials. <i>Advanced Functional Materials</i> , 2011, 21, 634-643.	7.8	10
92	Cyano-Substituted Oligo(<i>p</i> -phenylene vinylene) Single Crystals: A Promising Laser Material. <i>Advanced Functional Materials</i> , 2011, 21, 3770-3777.	7.8	98
93	Low cost, nanometer scale nanoimprinting " Application to organic solar cells optimization. <i>Organic Electronics</i> , 2011, 12, 1241-1246.	1.4	11
94	Patterned electrode vertical field effect transistor: Theory and experiment. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	61
95	Shockley"Read"Hall recombination in P3HT:PCBM solar cells as observed under ultralow light intensities. <i>Journal of Applied Physics</i> , 2011, 109, 064501.	1.1	58
96	Patterned electrode vertical OFET: analytical description, switching mechanisms, and optimization rules. <i>Proceedings of SPIE</i> , 2011, , .	0.8	12
97	The Impact of Spectral and Spatial Exciton Distributions on Optical Emission From Thin-Film Weak-Microcavity Organic Light-Emitting Diodes. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 1388-1395.	1.0	11
98	Sensing of Alkylating Agents Using Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2010, 20, 105-110.	7.8	27
99	Interface Modifications of InAs Quantum-Dots Solids and their Effects on FET Performance. <i>Advanced Functional Materials</i> , 2010, 20, 1005-1010.	7.8	23
100	Towards an omnipotent "Artificial Nose" detection and identification of alkylating agents using an optical sensor array. <i>Journal of Physical Organic Chemistry</i> , 2010, 23, 1108-1113.	0.9	8
101	Analytical extraction of the recombination zone location in organic light-emitting diodes from emission pattern extrema. <i>Optics Letters</i> , 2010, 35, 3366.	1.7	12
102	Patterned electrode vertical field effect transistor fabricated using block copolymer nanotemplates. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	78
103	Charge Transport in Disordered Organic Materials and Its Relevance to Thin-Film Devices: A Tutorial Review. <i>Advanced Materials</i> , 2009, 21, 2741-2761.	11.1	394
104	Ground-State Interaction and Electrical Doping of Fluorinated C ₆₀ in Conjugated Polymers. <i>Advanced Materials</i> , 2009, 21, 4456-4460.	11.1	41
105	Detection and Identification of Alkylating Agents by Using a Bioinspired "Chemical Nose". <i>Chemistry - A European Journal</i> , 2009, 15, 10380-10386.	1.7	33
106	Current voltage relation of amorphous materials based pn diodes"the effect of degeneracy in organic polymers/molecules. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	16
107	Photopatternable self-assembled monolayers as micron scale templates for polymer based field effect transistors. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	10
108	Electromagnetic Radiation from Organic Light-emitting Diodes. <i>Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium</i> , 2009, 5, 75-80.	0.4	2

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109	Hybrid nanocomposite materials with organic and inorganic components for opto-electronic devices. Journal of Materials Chemistry, 2008, 18, 1064.	6.7	183
110	Tuning Energetic Levels in Nanocrystal Quantum Dots through Surface Manipulations. Nano Letters, 2008, 8, 678-684.	4.5	159
111	Optical emission from organic light-emitting diodes. , 2008, , .		0
112	p -type doping in organic light emitting diodes based on fluorinated C60. Journal of Applied Physics, 2008, 104, .	1.1	24
113	Measurements of the Einstein relation in doped and undoped molecular thin films. Physical Review B, 2008, 77, .	1.1	16
114	Wide band gap cross-linkable semiconducting polymer LED. Synthetic Metals, 2007, 157, 841-845.	2.1	17
115	Are organic LEDs and Lasers similar to inorganic devices?. , 2007, , .		1
116	Spatially dispersive transport: A mesoscopic phenomenon in disordered organic semiconductors. Physical Review B, 2007, 76, .	1.1	22
117	Photopatternability of poly(vinylcarbazole) bearing cinnamate pendants and its blends with a soluble poly(p-phenylene vinylene) derivative. Macromolecular Research, 2007, 15, 142-146.	1.0	8
118	Threshold voltage as a measure of molecular level shift in organic thin-film transistors. Applied Physics Letters, 2006, 88, 043509.	1.5	25
119	Loss of photocurrent efficiency in low mobility semiconductors: Analytic approach to space charge effects. Applied Physics Letters, 2006, 89, 013504.	1.5	14
120	Electronic Formulationsâ€™ Photopatterning of Luminescent Conjugated Polymers. Advanced Functional Materials, 2006, 16, 2095-2102.	7.8	27
121	Low gain threshold of the cavity mode close to the cutoff wavelength in a three-slab asymmetric conjugated polymer-based waveguide structure. Journal of Applied Physics, 2006, 99, 013101.	1.1	20
122	Mobility spatial distribution function: Comparative method for conjugated polymers/molecules. Applied Physics Letters, 2006, 89, 252117.	1.5	12
123	Carrier heating in disordered organic semiconductors. Physical Review B, 2006, 74, .	1.1	36
124	The mobility spatial distribution function: Turn-on dynamics of polymer photocells. Journal of Applied Physics, 2006, 99, 064507.	1.1	27
125	Analysis and Modeling of Organic Devices. , 2006, , 319-341.		0
126	Amorphous organic molecule/polymer diodes and transistorsâ€™ Comparison between predictions based on Gaussian or exponential density of states. Organic Electronics, 2005, 6, 200-210.	1.4	59

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127	1,3-Di(2-pyrrolyl)azulene: An Efficient Luminescent Probe for Fluoride. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 2207-2212.	1.2	81
128	PbSe/PbS and PbSe/PbSexS1-x Core/Shell Nanocrystals. <i>Advanced Functional Materials</i> , 2005, 15, 1111-1116.	7.8	152
129	Charge carrier mobility in field effect transistors: analysis of capacitance-conductance measurements. <i>Semiconductor Science and Technology</i> , 2005, 20, 90-94.	1.0	8
130	The interplay between space charge and recombination in conjugated polymer/molecule photocells. <i>Journal of Applied Physics</i> , 2005, 98, 033714.	1.1	30
131	The use of electrical pulses to study the physics of bilayer organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2005, 97, 014504.	1.1	14
132	Nanoscale Measurements of Electronic Properties in Organic Thin Film Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2005, 871, 1.	0.1	0
133	Power Dependence and Turn-On Dynamics of Polymer Photocells - Extracting Mobilities and Analyzing Morphologies. <i>Materials Research Society Symposia Proceedings</i> , 2005, 871, 1.	0.1	0
134	Turn-on and Charge Build-up Dynamics in Polymer Field Effect Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2005, 871, 1.	0.1	1
135	Optoelectronic properties of polymer-nanocrystal composites active at near-infrared wavelengths. <i>Journal of Applied Physics</i> , 2005, 98, 074310.	1.1	28
136	Direct Determination of the Hole Density of States in Undoped and Doped Amorphous Organic Films with High Lateral Resolution. <i>Physical Review Letters</i> , 2005, 95, 256405.	2.9	146
137	Excitation density dependence of photocurrent efficiency in low mobility semiconductors. <i>Journal of Applied Physics</i> , 2004, 96, 1083-1087.	1.1	29
138	Analysis and modeling of organic devices. <i>Physica Status Solidi A</i> , 2004, 201, 1246-1262.	1.7	78
139	Charge Density and Film Morphology Dependence of Charge Mobility in Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2003, 15, 913-916.	11.1	71
140	Charge transport in conjugated polymers – The influence of charge concentration. <i>Synthetic Metals</i> , 2003, 135-136, 443-444.	2.1	45
141	NEAR INFRARED POLYMER NANOCRYSTAL LEDS. <i>Synthetic Metals</i> , 2003, 137, 1047-1048.	2.1	10
142	Self-consistent analysis of the contact phenomena in low-mobility semiconductors. <i>Journal of Applied Physics</i> , 2003, 93, 2059-2064.	1.1	35
143	Amorphous organic devices – degenerate semiconductors. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 9913-9924.	0.7	16
144	Generalized Einstein relation for disordered semiconductors – implications for device performance. <i>Applied Physics Letters</i> , 2002, 80, 1948-1950.	1.5	264

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145	Structures of polymer field-effect transistor: Experimental and numerical analyses. Applied Physics Letters, 2002, 80, 151-153.	1.5	70
146	Efficient Near-Infrared Polymer Nanocrystal Light-Emitting Diodes. Science, 2002, 295, 1506-1508.	6.0	1,296
147	Analysis of polymer-based devices. Synthetic Metals, 2001, 124, 41-43.	2.1	2
148	Light Emitting Diodes from Molecular and Polymer Semiconductors. , 2001, , 4486-4490.		1
149	Analysis of Polymer Field Effect Transistor. Materials Research Society Symposia Proceedings, 2001, 665, 1.	0.1	3
150	Semiconducting-polymer photonic devices. , 2001, , .		0
151	Optoelectronic devices based on hybrid organic- inorganic structures. Optical Materials, 2001, 17, 155-160.	1.7	5
152	Transfer Processes in Semiconducting Polymer-Porphyrin Blends. Advanced Materials, 2001, 13, 44-47.	11.1	105
153	Photoluminescence of poly(p-phenylenevinylene)-silica nanocomposites: Evidence for dual emission by Franck-Condon analysis. Journal of Chemical Physics, 2001, 115, 2709-2720.	1.2	89
154	Two-dimensional simulation of polymer field-effect transistor. Applied Physics Letters, 2001, 79, 2987-2989.	1.5	71
155	Laser Devices from Molecular and Polymer Semiconductors. , 2001, , 4402-4407.		0
156	Editorial: Semiconductor optoelectronics. IEE Proceedings: Optoelectronics, 2001, 148, 1-1.	0.8	0
157	Material and device related properties in the context of the possible making of electrically pumped polymer laser. Thin Solid Films, 2000, 363, 64-67.	0.8	23
158	Transport and optical modeling of organic light-emitting diodes. Applied Physics Letters, 2000, 77, 1897.	1.5	21
159	Polymer LEDs as a physics tool. Israel Journal of Chemistry, 2000, 40, 147-152.	1.0	2
160	Analysis of the turn-off dynamics in polymer light-emitting diodes. Applied Physics Letters, 2000, 76, 1137-1139.	1.5	42
161	Use of multiple electrical pulses to study charge transport in polymer light-emitting diodes. Applied Physics Letters, 2000, 77, 1493-1495.	1.5	7
162	Properties of light emitting organic materials within the context of future electrically pumped lasers. Synthetic Metals, 2000, 115, 57-62.	2.1	48

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163	Time-resolved transport in conjugated polymers. <i>Synthetic Metals</i> , 2000, 111-112, 257-261.	2.1	8
164	Semiconductor device model applied to electrically pulsed polymer LEDs. <i>Synthetic Metals</i> , 2000, 111-112, 269-272.	2.1	10
165	Electric Field Distribution in Polymer Light-Emitting Electrochemical Cells. <i>Physical Review Letters</i> , 2000, 85, 421-424.	2.9	67
166	High-mobility conjugated polymer field-effect transistors. , 1999, , 101-110.		46
167	Harvesting Singlet and Triplet Energy in Polymer LEDs. <i>Advanced Materials</i> , 1999, 11, 285-288.	11.1	347
168	Lasers Based on Semiconducting Organic Materials. <i>Advanced Materials</i> , 1999, 11, 363-370.	11.1	392
169	Transient electroluminescence of polymer light emitting diodes using electrical pulses. <i>Journal of Applied Physics</i> , 1999, 86, 5116-5130.	1.1	237
170	All-Polymer Optoelectronic Devices. <i>Science</i> , 1999, 285, 233-236.	6.0	286
171	Integrated, high-mobility polymer field-effect transistors driving polymer light-emitting diodes. <i>Synthetic Metals</i> , 1999, 102, 857-860.	2.1	163
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