

Thomas Riedl

List of Publications by Year in descending order

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216
papers

13,022
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18436

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all docs

222
docs citations

222
times ranked

14192
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure manipulation by laser-surface remelting of a full-Heusler compound to enhance thermoelectric properties. <i>Acta Materialia</i> , 2022, 223, 117501.	3.8	7
2	Size-Dependent Strain Relaxation in InAs Quantum Dots on Top of GaAs(111)A Nanopillars. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	1
3	Automated SEM Image Analysis of the Sphere Diameter, Sphere-Sphere Separation, and Opening Size Distributions of Nanosphere Lithography Masks. <i>Microscopy and Microanalysis</i> , 2022, 28, 185-195.	0.2	1
4	Perovskite-organic tandem solar cells with indium oxide interconnect. <i>Nature</i> , 2022, 604, 280-286.	13.7	181
5	Direct patterning of methylammonium lead bromide perovskites by thermal imprint. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	3
6	Band-Gap Tuning in All-Inorganic CsPb _x Sn _{1-x} Br ₃ Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4203-4210.	4.0	24
7	Large-Grain Double Cation Perovskites with 18 μ s Lifetime and High Luminescence Yield for Efficient Inverted Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 1045-1054.	8.8	54
8	Upgrading of methylammonium lead halide perovskite layers by thermal imprint. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	9
9	Reductive Coupling Synthesis of a Soluble Poly(9,10-anthrylene ethynylene). <i>Organic Materials</i> , 2021, 03, 184-190.	1.0	0
10	Bifacial Color-Tunable Electroluminescent Devices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28514-28520.	4.0	8
11	Ordered arrays of Si nanopillars with alternating diameters fabricated by nanosphere lithography and metal-assisted chemical etching. <i>Materials Science in Semiconductor Processing</i> , 2021, 128, 105746.	1.9	8
12	The Optical Origin of Near-Unity External Quantum Efficiencies in Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100371.	3.1	14
13	Relevance of processing parameters for grain growth of metal halide perovskites with nanoimprint. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	5
14	Roadmap on organic-inorganic hybrid perovskite semiconductors and devices. <i>APL Materials</i> , 2021, 9, .	2.2	102
15	Atomic Layer Deposition of Functional Layers in Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900332.	3.1	46
16	Influence of lens aberrations, specimen thickness and tilt on differential phase contrast STEM images. <i>Ultramicroscopy</i> , 2020, 219, 113118.	0.8	10
17	A carbene stabilized precursor for the spatial atomic layer deposition of copper thin films. <i>Chemical Communications</i> , 2020, 56, 13752-13755.	2.2	12
18	Halide Segregation versus Interfacial Recombination in Bromide-Rich Wide-Gap Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 2728-2736.	8.8	114

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19	Amorphous Indium-Gallium-Zinc-Oxide TFTs Patterned by Self-Aligned Photolithography Overcoming the GHz Threshold. IEEE Electron Device Letters, 2020, 41, 1786-1789.	2.2	14
20	Thermal properties of metal-halide perovskites. Journal of Materials Chemistry C, 2020, 8, 14289-14311.	2.7	74
21	InAs heteroepitaxy on nanopillar-patterned GaAs (111)A. Journal of Crystal Growth, 2020, 537, 125597.	0.7	2
22	Thermal properties of CsPbCl ₃ thin films across phase transitions. JPhys Materials, 2020, 3, 024004.	1.8	15
23	Impermeable Charge Transport Layers Enable Aqueous Processing on Top of Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1903897.	10.2	30
24	Nonlinear refraction in CH ₃ NH ₃ PbBr ₃ single crystals. Optics Letters, 2020, 45, 2431.	1.7	19
25	Nonlinear optical properties of metal halide perovskite single crystals. , 2020, , .		0
26	Room-temperature Stimulated Emission and Lasing in Recrystallized Cesium Lead Bromide Perovskite Thin Films. Advanced Materials, 2019, 31, e1903717.	11.1	148
27	Extremely Robust Gas-Quenching Deposition of Halide Perovskites on Top of Hydrophobic Hole Transport Materials for Inverted (p-i-n) Solar Cells by Targeting the Precursor Wetting Issue. ACS Applied Materials & Interfaces, 2019, 11, 40172-40179.	4.0	39
28	Evaluation of the Beyond- λ_c Operation of an IGZO TFT-Based RF Self-Mixing Circuit. IEEE Microwave and Wireless Components Letters, 2019, 29, 119-121.	2.0	5
29	Solution-Processed Tin Oxide-PEDOT:PSS Interconnecting Layers for Efficient Inverted and Conventional Tandem Polymer Solar Cells. Solar Rrl, 2019, 3, 1800366.	3.1	22
30	Direct Arylation Polycondensation (DAP) Synthesis of Alternating Quaterthiophene-Benzothiadiazole Copolymers for Organic Solar Cell Applications. ChemPlusChem, 2019, 84, 1249-1252.	1.3	6
31	Simultaneous Mapping of Thermal Conductivity, Thermal Diffusivity, and Volumetric Heat Capacity of Halide Perovskite Thin Films: A Novel Nanoscopic Thermal Measurement Technique. Journal of Physical Chemistry Letters, 2019, 10, 3019-3023.	2.1	32
32	A comparative study demonstrates strong size tunability of carrier-phonon coupling in CdSe-based 2D and 0D nanocrystals. Nanoscale, 2019, 11, 3958-3967.	2.8	24
33	Metal-Oxide Interface Materials for Organic and Perovskite Solar Cells. World Scientific Series in Nanoscience and Nanotechnology, 2019, , 61-104.	0.1	2
34	Adsorption Behavior of Lysozyme at Titanium Oxide-Water Interfaces. Langmuir, 2018, 34, 5403-5408.	1.6	6
35	Atmospheric pressure plasma enhanced spatial atomic layer deposition of SnO _x as conductive gas diffusion barrier. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	29
36	Spatial Atmospheric Pressure Atomic Layer Deposition of Tin Oxide as an Impermeable Electron Extraction Layer for Perovskite Solar Cells with Enhanced Thermal Stability. ACS Applied Materials & Interfaces, 2018, 10, 6006-6013.	4.0	65

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37	Distributed Feedback Lasers Based on MAPbBr ₃ . Advanced Materials Technologies, 2018, 3, 1700253.	3.0	77
38	All-oxide MoO _x /SnO _x Charge Recombination Interconnects for Inverted Organic Tandem Solar Cells. Advanced Energy Materials, 2018, 8, 1702533.	10.2	30
39	Ein η -heterocyclischer Carbenkomplex des Silbers für die plasmaunterstützte räumlich getrennte Atomlagenabscheidung dünner Silberschichten bei Atmosphärendruck. Angewandte Chemie, 2018, 130, 16458-16462.	1.6	2
40	An η -Heterocyclic Carbene Based Silver Precursor for Plasma-Enhanced Spatial Atomic Layer Deposition of Silver Thin Films at Atmospheric Pressure. Angewandte Chemie - International Edition, 2018, 57, 16224-16227.	7.2	22
41	Stark effect of hybrid charge transfer states at planar ZnO/organic interfaces. Physical Review B, 2018, 98, .	1.1	12
42	Nanometer-Thick Conjugated Microporous Polymer Films for Selective and Sensitive Vapor-Phase TNT Detection. ACS Applied Nano Materials, 2018, 1, 6483-6492.	2.4	32
43	Impact of Shell Growth on Recombination Dynamics and Exciton-Phonon Interaction in CdSe@CdS Core-Shell Nanoplatelets. ACS Nano, 2018, 12, 9476-9483.	7.3	39
44	Metal Oxide-Based Charge Extraction and Recombination Layers for Organic Solar Cells. , 2018, , 159-181.		2
45	Photonic Nanostructures Patterned by Thermal Nanoimprint Directly into Organo-Metal Halide Perovskites. Advanced Materials, 2017, 29, 1605003.	11.1	170
46	Suppressed decomposition of organometal halide perovskites by impermeable electron-extraction layers in inverted solar cells. Nature Communications, 2017, 8, 13938.	5.8	259
47	2D Heterostructures Derived from MoS ₂ -Templated, Cobalt-Containing Conjugated Microporous Polymer Sandwiches for the Oxygen Reduction Reaction and Electrochemical Energy Storage. ChemElectroChem, 2017, 4, 709-715.	1.7	30
48	Strain Compensation in Single ZnSe/CdSe Quantum Wells: Analytical Model and Experimental Evidence. ACS Applied Materials & Interfaces, 2017, 9, 8371-8377.	4.0	3
49	Gas Diffusion Barriers Prepared by Spatial Atmospheric Pressure Plasma Enhanced ALD. ACS Applied Materials & Interfaces, 2017, 9, 4171-4176.	4.0	41
50	Indium-Free Perovskite Solar Cells Enabled by Impermeable Tin-Oxide Electron Extraction Layers. Advanced Materials, 2017, 29, 1606656.	11.1	88
51	Self-Encapsulating Thermostable and Air-Resilient Semitransparent Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1602599.	10.2	129
52	Thermal nanoimprint to improve the morphology of MAPbX ₃ (MA= methylammonium, X= I or Br). Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, .	0.6	20
53	Thermal Conductivity of Methylammonium Lead Halide Perovskite Single Crystals and Thin Films: A Comparative Study. Journal of Physical Chemistry C, 2017, 121, 28306-28311.	1.5	93
54	From diffusive in-plane to ballistic out-of-plane heat transport in thin non-crystalline films. Microelectronics Reliability, 2017, 76-77, 222-226.	0.9	5

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55	Nitrogen-doped porous carbon/graphene nanosheets derived from two-dimensional conjugated microporous polymer sandwiches with promising capacitive performance. <i>Materials Chemistry Frontiers</i> , 2017, 1, 278-285.	3.2	62
56	A novel label-free cell-based assay technology using bilayer interferometry. <i>Biosensors and Bioelectronics</i> , 2017, 87, 388-395.	5.3	31
57	Program FFlexCom – High frequency flexible bendable electronics for wireless communication systems. , 2017, , .		12
58	Minor defects of the luminal integrity in arterial introducer eSheaths after transcatheter aortic valve implantation. <i>PLoS ONE</i> , 2017, 12, e0176893.	1.1	0
59	Controlled Mechanical Cracking of Metal Films Deposited on Polydimethylsiloxane (PDMS). <i>Nanomaterials</i> , 2016, 6, 168.	1.9	16
60	Avoiding Photoinduced Shunts in Organic Solar Cells by the Use of Tin Oxide (SnO _x) as Electron Extraction Material Instead of ZnO. <i>Advanced Energy Materials</i> , 2016, 6, 1600347.	10.2	63
61	Impact of Film Stoichiometry on the Ionization Energy and Electronic Structure of CH ₃ NH ₃ PbI ₃ Perovskites. <i>Advanced Materials</i> , 2016, 28, 553-559.	11.1	148
62	Gas permeation barriers deposited by atmospheric pressure plasma enhanced atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, .	0.9	18
63	From diffusive to ballistic Stefan–Boltzmann heat transport in thin non-crystalline films. <i>RSC Advances</i> , 2016, 6, 94193-94199.	1.7	16
64	Metal-nanostructures – a modern and powerful platform to create transparent electrodes for thin-film photovoltaics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14481-14508.	5.2	77
65	Highly sensitive gas-phase explosive detection by luminescent microporous polymer networks. <i>Scientific Reports</i> , 2016, 6, 29118.	1.6	57
66	Stress Management in Thin-Film Gas-Permeation Barriers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4056-4061.	4.0	39
67	Thermal microscopy of electronic materials. <i>Materials Science in Semiconductor Processing</i> , 2016, 43, 163-176.	1.9	25
68	Experimental results with HF underwater acoustic modem for high bandwidth applications. , 2015, , .		11
69	Highly Robust Transparent and Conductive Gas Diffusion Barriers Based on Tin Oxide. <i>Advanced Materials</i> , 2015, 27, 5961-5967.	11.1	84
70	Tin Oxide (SnO _x) as Universal –Light–Soaking–Free Electron Extraction Material for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500277.	10.2	82
71	Straightforward Generation of Pillared, Microporous Graphene Frameworks for Use in Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 6714-6721.	11.1	137
72	Facile Preparation of High–Performance Elastically Stretchable Interconnects. <i>Advanced Materials</i> , 2015, 27, 3755-3759.	11.1	34

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73	Future prospects of organic and perovskite based solid-state lasers. , 2015, , .		1
74	Comparison of OFDM and single-carrier schemes for Doppler Tolerant Acoustic Communications. , 2015, , .		8
75	Plasmonically sensitized metal-oxide electron extraction layers for organic solar cells. Scientific Reports, 2015, 5, 7765.	1.6	39
76	Deep and Shallow TiO ₂ Gap States on Cleaved Anatase Single Crystal (101) Surfaces, Nanocrystalline Anatase Films, and ALD Titania Ante and Post Annealing. Journal of Physical Chemistry C, 2015, 119, 9890-9898.	1.5	48
77	Transfer printing of electrodes for organic devices: nanoscale versus macroscale continuity. Applied Physics A: Materials Science and Processing, 2015, 120, 503-508.	1.1	4
78	Transparent conductive thin-film encapsulation layers (Presentation Recording). , 2015, , .		0
79	Self-organized fabrication of periodic arrays of vertical, ultra-thin nanopillars on GaAs surfaces. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2871-2877.	0.8	7
80	Determination of triplet excitons in organic semiconductor materials. Materials Research Society Symposia Proceedings, 2014, 1629, 1.	0.1	1
81	Towards a video-capable wireless underwater modem: Doppler tolerant broadband acoustic communication. , 2014, , .		17
82	Comparison of Theoretical Approaches Predicting the Coherent-Semicoherent Transition in Nanoscale Axial Heterostructures. Materials Research Society Symposia Proceedings, 2014, 1664, 7.	0.1	1
83	Highly Luminescent Monolayers Prepared by Molecular Layer Deposition. ECS Transactions, 2014, 64, 97-105.	0.3	3
84	Thermal Modification of Nanoscale Mask Openings in Polystyrene Sphere Layers. Materials Research Society Symposia Proceedings, 2014, 1663, 24.	0.1	2
85	Conformal and Highly Luminescent Monolayers of Alq ₃ Prepared by Gas-Phase Molecular Layer Deposition. ACS Applied Materials & Interfaces, 2014, 6, 1193-1199.	4.0	20
86	Manipulating the Morphology of Silver Nanoparticles with Local Plasmon-Mediated Control. Particle and Particle Systems Characterization, 2014, 31, 342-346.	1.2	10
87	Top-gate zinc tin oxide thin-film transistors with high bias and environmental stress stability. Applied Physics Letters, 2014, 104, .	1.5	24
88	Polyanionic, Alkylthiosulfate-Based Thiol Precursors for Conjugated Polymer Self-Assembly onto Gold and Silver. ACS Applied Materials & Interfaces, 2014, 6, 11758-11765.	4.0	16
89	Reliability of high-resolution electron backscatter diffraction determination of strain and rotation variations using phase-only and cross correlation. Crystal Research and Technology, 2014, 49, 195-203.	0.6	3
90	Highly Robust Indium-Free Transparent Conductive Electrodes Based on Composites of Silver Nanowires and Conductive Metal Oxides. Advanced Functional Materials, 2014, 24, 1671-1678.	7.8	133

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91	Overcoming the "Light Soaking" Issue in Inverted Organic Solar Cells by the Use of Al:ZnO Electron Extraction Layers. <i>Advanced Energy Materials</i> , 2013, 3, 1437-1444.	10.2	160
92	Solution processed metal-oxides for organic electronic devices. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4796.	2.7	128
93	Dynamic Near-Field Scanning Thermal Microscopy on thin films. <i>Microelectronics Reliability</i> , 2013, 53, 1413-1417.	0.9	9
94	Atmospheric Pressure Plasma ALD of Titanium Oxide. <i>Chemical Vapor Deposition</i> , 2013, 19, 167-173.	1.4	14
95	Direct arylation polycondensation as simplified alternative for the synthesis of conjugated (co)polymers. <i>Progress in Polymer Science</i> , 2013, 38, 1805-1814.	11.8	146
96	Ultrathin interlayers of a conjugated polyelectrolyte for low work-function cathodes in efficient inverted organic solar cells. <i>Organic Electronics</i> , 2013, 14, 951-957.	1.4	72
97	Facile Encapsulation of Oxide based Thin Film Transistors by Atomic Layer Deposition based on Ozone. <i>Advanced Materials</i> , 2013, 25, 2821-2825.	11.1	26
98	Elemental distribution, solute solubility and defect free volume in nanocrystalline restricted-equilibrium Cu-Ag alloys. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 115401.	0.7	3
99	Transparent OLED displays. , 2013, , 512-547.		4
100	MUST-READ: Multichannel sample-by-sample turbo resampling equalization and decoding. , 2013, , .		10
101	Photoexcitation dynamics in polyfluorene-based thin films: Energy transfer and amplified spontaneous emission. <i>Physical Review B</i> , 2012, 85, .	1.1	15
102	Room-temperature solution processed SnOx as an electron extraction layer for inverted organic solar cells with superior thermal stability. <i>Journal of Materials Chemistry</i> , 2012, 22, 16224.	6.7	67
103	Low-Temperature, Solution-Processed MoO _x for Efficient and Stable Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1164-1168.	4.0	144
104	Optoelectronic devices based on ultra-violet light sensitive PVK:PCBM layers. <i>Synthetic Metals</i> , 2012, 162, 522-526.	2.1	2
105	Consolidation of mechanically alloyed nanocrystalline Cu-Nb-ZrO ₂ powder by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2012, 535, 62-69.	2.8	10
106	Highly Transparent and Conductive ZTO/Ag/ZTO Multilayer Top Electrodes for Large Area Organic Solar Cells. <i>Energy Procedia</i> , 2012, 31, 110-116.	1.8	6
107	Water as Origin of Hysteresis in Zinc Tin Oxide Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4453-4456.	4.0	62
108	Transition Metal Oxides for Organic Electronics: Energetics, Device Physics and Applications. <i>Advanced Materials</i> , 2012, 24, 5408-5427.	11.1	1,035

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109	Realization of ultrathin silver layers in highly conductive and transparent zinc tin oxide/silver/zinc tin oxide multilayer electrodes deposited at room temperature for transparent organic devices. <i>Thin Solid Films</i> , 2012, 520, 4669-4673.	0.8	26
110	Preparation of high-quality ultrathin transmission electron microscopy specimens of a nanocrystalline metallic powder. <i>Microscopy Research and Technique</i> , 2012, 75, 711-719.	1.2	4
111	Electronic structure of Vanadium pentoxide: An efficient hole injector for organic electronic materials. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	224
112	Indium-free bottom electrodes for inverted organic solar cells with simplified cell architectures. <i>Applied Physics Letters</i> , 2011, 99, 033304.	1.5	12
113	Efficient large area semitransparent organic solar cells based on highly transparent and conductive ZTO/Ag/ZTO multilayer top electrodes. <i>Organic Electronics</i> , 2011, 12, 1612-1618.	1.4	107
114	Hydrogen storage properties and microstructure of melt-spun Mg ₉₀ Ni ₈ RE ₂ (RE=ÅY, Nd, Gd). <i>International Journal of Hydrogen Energy</i> , 2011, 36, 10808-10815.	3.8	97
115	Inverted Organic Solar Cells with Sol-gel Processed High Work-function Vanadium Oxide Hole-Extraction Layers. <i>Advanced Functional Materials</i> , 2011, 21, 4776-4783.	7.8	213
116	Elastically Tunable Self-Organized Organic Lasers. <i>Advanced Materials</i> , 2011, 23, 869-872.	11.1	107
117	Solution Processed Vanadium Pentoxide as Charge Extraction Layer for Organic Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 377-381.	10.2	238
118	Microstructure and hydrogen storage properties of melt-spun Mg-Cu-Ni-Y alloys. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1592-1600.	3.8	82
119	Room temperature lifetime of triplet excitons in fluorescent host/guest systems. <i>Organic Electronics</i> , 2011, 12, 486-491.	1.4	36
120	Spectrally separated optical gain and triplet absorption: Towards continuous wave lasing in organic thin film lasers. <i>Organic Electronics</i> , 2011, 12, 1346-1351.	1.4	36
121	Enhanced stability against bias-stress of metal-oxide thin film transistors deposited at elevated temperatures. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	21
122	An organic p-i-n homojunction as ultra violet light emitting diode and visible-blind photodiode in one. <i>Applied Physics Letters</i> , 2011, 99, 053301.	1.5	33
123	The Role of Transition Metal Oxides in Charge-Generation Layers for Stacked Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2010, 20, 1762-1766.	7.8	150
124	Surface modeling and chemical solution deposition of SrO(SrTiO ₃) Ruddlesden-Popper phases. <i>Acta Materialia</i> , 2010, 58, 4650-4659.	3.8	20
125	Charge carrier densities in chemically doped organic semiconductors verified by two independent techniques. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	35
126	The origin of low water vapor transmission rates through Al ₂ O ₃ /ZrO ₂ nanolaminate gas-diffusion barriers grown by atomic layer deposition. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	103

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127	Charge generation layers comprising transition metal-oxide/organic interfaces: Electronic structure and charge generation mechanism. Applied Physics Letters, 2010, 96, .	1.5	171
128	Impact of triplet absorption and triplet-singlet annihilation on the dynamics of optically pumped organic solid-state lasers. Physical Review B, 2010, 81, .	1.1	73
129	Microwave annealing of polymer solar cells with various transparent anode materials. Applied Physics Letters, 2010, 97, 123306.	1.5	21
130	Thin Film Encapsulation of Top-Emitting OLEDs using Atomic Layer Deposition. , 2010, , .		1
131	Transient characteristics of inverted polymer solar cells using titaniumoxide interlayers. Applied Physics Letters, 2010, 96, .	1.5	107
132	Reliability aspects of organic light emitting diodes. , 2010, , .		4
133	Highly Sensitive Determination of the Polaron-Induced Optical Absorption of Organic Charge-Transport Materials. Physical Review Letters, 2009, 102, 137401.	2.9	40
134	Role of the deep-lying electronic states of MoO ₃ in the enhancement of hole-injection in organic thin films. Applied Physics Letters, 2009, 95, .	1.5	615
135	p-type doping efficiency of MoO ₃ in organic hole transport materials. Applied Physics Letters, 2009, 94, .	1.5	134
136	Optical Gain in Foerster Energy Transfer Based Organic Guest-Host-Systems. Materials Research Society Symposia Proceedings, 2009, 1197, 7.	0.1	1
137	Al ₂ O ₃ /ZrO ₂ Nanolaminates as Ultrahigh Gas Diffusion Barriers—A Strategy for Reliable Encapsulation of Organic Electronics. Advanced Materials, 2009, 21, 1845-1849.	11.1	270
138	Zinc tin oxide based driver for highly transparent active matrix OLED displays. Solid-State Electronics, 2009, 53, 329-331.	0.8	65
139	P-type doping of organic wide band gap materials by transition metal oxides: A case-study on Molybdenum trioxide. Organic Electronics, 2009, 10, 932-938.	1.4	392
140	ELNES study of chemical solution deposited  overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-cite/dtd" data-bbox="680 680 710 710"/> overflow="scroll" data-bbox="680 680 710 710"/>	0.8	7
141	Ultramicroporous Transparent Electronics for See-Through AMOLED Displays. Journal of Display Technology, 2009, 5, 501-508.	1.3	62
142	Efficient semitransparent inverted organic solar cells with indium tin oxide top electrode. Applied Physics Letters, 2009, 94, .	1.5	200
143	Reliable thin film encapsulation for organic light emitting diodes grown by low-temperature atomic layer deposition. Applied Physics Letters, 2009, 94, .	1.5	127
144	Encapsulation of Zinc Tin Oxide Based Thin Film Transistors. Journal of Physical Chemistry C, 2009, 113, 11126-11130.	1.5	31

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145	A strategy towards p-type doping of organic materials with HOMO levels beyond 6 eV using tungsten oxide. <i>Journal of Materials Chemistry</i> , 2009, 19, 702.	6.7	97
146	Mn Valency at La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ (0 0 1) Thin Film Interfaces. <i>Microscopy and Microanalysis</i> , 2009, 15, 213-221.	0.2	18
147	P HighlyÜEfficient Gas Diffusion Barriers Based on Nanolaminates Prepared by LowÜTemperature ALD. <i>Digest of Technical Papers SID International Symposium</i> , 2009, 40, 1706-1709.	0.1	0
148	Semi-transparent inverted organic solar cells. <i>Proceedings of SPIE</i> , 2009, , .	0.8	10
149	Transparent Inverted Organic LightÜEmitting Diodes with a Tungsten Oxide Buffer Layer. <i>Advanced Materials</i> , 2008, 20, 3839-3843.	11.1	174
150	Indium-free transparent organic light emitting diodes with Al doped ZnO electrodes grown by atomic layer and pulsed laser deposition. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	130
151	Transition metal oxides as charge injecting layer for admittance spectroscopy. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	53
152	Charge injecting layers for admittance spectroscopy. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
153	Characterization and optimization of the deposition process of aluminum top electrodes for organic devices. , 2008, , .		0
154	Highly efficient fully transparent inverted OLEDs. <i>Proceedings of SPIE</i> , 2007, 6655, 148.	0.8	3
155	See-through OLED displays. , 2007, , .		14
156	Optical gain in Coumarin 545T-doped Tris(8-hydroxy-chinolinato)aluminium thin films. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
157	Loss processes in organic double-heterostructure laser diodes. <i>Proceedings of SPIE</i> , 2007, , .	0.8	5
158	The influence of visible light on transparent zinc tin oxide thin film transistors. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	145
159	Suitability of lithium doped electron injection layers for organic semiconductor lasers. <i>Applied Physics Letters</i> , 2007, 90, 151103.	1.5	14
160	Loss reduction in fully contacted organic laser waveguides using TE ₂ modes. <i>Applied Physics Letters</i> , 2007, 91, 041113.	1.5	21
161	Polymer lasers: recent advances. , 2007, , .		2
162	Highly efficient organic tandem solar cells using an improved connecting architecture. <i>Applied Physics Letters</i> , 2007, 91, 073519.	1.5	98

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163	Stability of transparent zinc tin oxide transistors under bias stress. Applied Physics Letters, 2007, 90, 063502.	1.5	206
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