Thomas Riedl

List of Publications by Year
in descending order

216	13,022	18436 62	24915 109
papers	citations	h-index	g-index

222	222	222	14192
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transition Metal Oxides for Organic Electronics: Energetics, Device Physics and Applications. Advanced Materials, 2012, 24, 5408-5427.	11.1	1,035
2	Role of the deep-lying electronic states of MoO3 in the enhancement of hole-injection in organic thin films. Applied Physics Letters, 2009, 95, .	1.5	615
3	Solid-State NMR Studies of the Structure of Graphite Oxide. The Journal of Physical Chemistry, 1996, 100, 19954-19958.	2.9	392
4	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
5	Towards See-Through Displays: Fully Transparent Thin-Film Transistors Driving Transparent Organic Light-Emitting Diodes. Advanced Materials, 2006, 18, 738-741.	11.1	300
6	Al₂O₃/ZrO₂ Nanolaminates as Ultrahigh Gasâ€Diffusion Barriersâ€"A Strategy for Reliable Encapsulation of Organic Electronics. Advanced Materials, 2009, 21, 1845-1849.	11.1	270
7	Suppressed decomposition of organometal halide perovskites by impermeable electron-extraction layers in inverted solar cells. Nature Communications, 2017, 8, 13938.	5.8	259
8	Highly efficient simplified organic light emitting diodes. Applied Physics Letters, 2007, 91, .	1.5	251
9	Solution Processed Vanadium Pentoxide as Charge Extraction Layer for Organic Solar Cells. Advanced Energy Materials, 2011, 1, 377-381.	10.2	238
10	Electronic structure of Vanadium pentoxide: An efficient hole injector for organic electronic materials. Journal of Applied Physics, 2011, 110, .	1.1	224
11	Inverted Organic Solar Cells with Solâ€"Gel Processed High Workâ€Function Vanadium Oxide Holeâ€Extraction Layers. Advanced Functional Materials, 2011, 21, 4776-4783.	7.8	213
12	Stability of transparent zinc tin oxide transistors under bias stress. Applied Physics Letters, 2007, 90, 063502.	1.5	206
13	Large Area Electronics Using Printing Methods. Proceedings of the IEEE, 2005, 93, 1321-1329.	16.4	201
14	Efficient semitransparent inverted organic solar cells with indium tin oxide top electrode. Applied Physics Letters, 2009, 94, .	1.5	200
15	Perovskiteâ€"organic tandem solar cells with indium oxide interconnect. Nature, 2022, 604, 280-286.	13.7	181
16	Transparent Inverted Organic Lightâ€Emitting Diodes with a Tungsten Oxide Buffer Layer. Advanced Materials, 2008, 20, 3839-3843.	11.1	174
17	Charge generation layers comprising transition metal-oxide/organic interfaces: Electronic structure and charge generation mechanism. Applied Physics Letters, 2010, 96, .	1.5	171
18	Photonic Nanostructures Patterned by Thermal Nanoimprint Directly into Organoâ€Metal Halide Perovskites. Advanced Materials, 2017, 29, 1605003.	11.1	170

#	Article	IF	Citations
19	Overcoming the â€œLightâ€Soakingâ€•Issue in Inverted Organic Solar Cells by the Use of Al:ZnO Electron Extraction Layers. Advanced Energy Materials, 2013, 3, 1437-1444.	10.2	160
20	The Role of Transition Metal Oxides in Chargeâ€Generation Layers for Stacked Organic Lightâ€Emitting Diodes. Advanced Functional Materials, 2010, 20, 1762-1766.	7.8	150
21	Impact of Film Stoichiometry on the Ionization Energy and Electronic Structure of CH₃NH₃PbI₃ Perovskites. Advanced Materials, 2016, 28, 553-559.	11.1	148
22	Roomâ€Temperature Stimulated Emission and Lasing in Recrystallized Cesium Lead Bromide Perovskite Thin Films. Advanced Materials, 2019, 31, e1903717.	11.1	148
23	Direct arylation polycondensation as simplified alternative for the synthesis of conjugated (co)polymers. Progress in Polymer Science, 2013, 38, 1805-1814.	11.8	146
24	The influence of visible light on transparent zinc tin oxide thin film transistors. Applied Physics Letters, 2007, 91, .	1.5	145
25	Low-Temperature, Solution-Processed MoO_x for Efficient and Stable Organic Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 1164-1168.	4.0	144
26	Straightforward Generation of Pillared, Microporous Graphene Frameworks for Use in Supercapacitors. Advanced Materials, 2015, 27, 6714-6721.	11.1	137
27	Tunable organic thin-film laser pumped by an inorganic violet diode laser. Applied Physics Letters, 2006, 88, 241116.	1.5	136
28	p -type doping efficiency of MoO3 in organic hole transport materials. Applied Physics Letters, 2009, 94, .	1.5	134
29	Highly Robust Indiumâ€Free Transparent Conductive Electrodes Based on Composites of Silver Nanowires and Conductive Metal Oxides. Advanced Functional Materials, 2014, 24, 1671-1678.	7.8	133
30	Indium-free transparent organic light emitting diodes with Al doped ZnO electrodes grown by atomic layer and pulsed laser deposition. Applied Physics Letters, 2008, 93, .	1.5	130
31	Selfâ€Encapsulating Thermostable and Airâ€Resilient Semitransparent Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1602599.	10.2	129
32	Solution processed metal-oxides for organic electronic devices. Journal of Materials Chemistry C, 2013, 1, 4796.	2.7	128
33	Reliable thin film encapsulation for organic light emitting diodes grown by low-temperature atomic layer deposition. Applied Physics Letters, 2009, 94, .	1.5	127
34	Extraction of EELS white-line intensities of manganese compounds: Methods, accuracy, and valence sensitivity. Ultramicroscopy, 2006, 106, 284-291.	0.8	124
35	Halide Segregation versus Interfacial Recombination in Bromide-Rich Wide-Gap Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2728-2736.	8.8	114
36	Transient characteristics of inverted polymer solar cells using titaniumoxide interlayers. Applied Physics Letters, 2010, 96, .	1.5	107

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37	Efficient large area semitransparent organic solar cells based on highly transparent and conductive ZTO/Ag/ZTO multilayer top electrodes. Organic Electronics, 2011, 12, 1612-1618.	1.4	107
38	Elastically Tunable Selfâ€Organized Organic Lasers. Advanced Materials, 2011, 23, 869-872.	11.1	107
39	The origin of low water vapor transmission rates through Al2O3/ZrO2 nanolaminate gas-diffusion barriers grown by atomic layer deposition. Applied Physics Letters, 2010, 96, .	1.5	103
40	Roadmap on organicâ€“inorganic hybrid perovskite semiconductors and devices. APL Materials, 2021, 9, .	2.2	102
41	Highly efficient organic tandem solar cells using an improved connecting architecture. Applied Physics Letters, 2007, 91, 073519.	1.5	98
42	A strategy towards p-type doping of organic materials with HOMO levels beyond 6 eV using tungsten oxide. Journal of Materials Chemistry, 2009, 19, 702.	6.7	97
43	Hydrogen storage properties and microstructure of melt-spun Mg90Ni8RE2 (REÂ=ÂY, Nd, Gd). International Journal of Hydrogen Energy, 2011, 36, 10808-10815.	3.8	97
44	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
45	Temperature-independent field-induced charge separation at doped organic/organic interfaces: Experimental modeling of electrical properties. Physical Review B, 2007, 75, .	1.1	92
46	All-organic thin-film transistors made of poly(3-butylthiophene) semiconducting and various polymeric insulating layers. Journal of Applied Physics, 2004, 95, 1594-1596.	1.1	91
47	Indiumâ€Free Perovskite Solar Cells Enabled by Impermeable Tinâ€Oxide Electron Extraction Layers. Advanced Materials, 2017, 29, 1606656.	11.1	88
48	Highly Robust Transparent and Conductive Gas Diffusion Barriers Based on Tin Oxide. Advanced Materials, 2015, 27, 5961-5967.	11.1	84
49	Ultrawide tuning range in doped organic solid-state lasers. Applied Physics Letters, 2004, 85, 1886-1888.	1.5	83
50	Deep blue widely tunable organic solid-state laser based on a spirobifluorene derivative. Applied Physics Letters, 2004, 84, 4693-4695.	1.5	82
51	Microstructure and hydrogen storage properties of melt-spun Mgâ€“Cuâ€“Niâ€“Y alloys. International Journal of Hydrogen Energy, 2011, 36, 1592-1600.	3.8	82
52	Tin Oxide (SnO_x) as Universal â€œLightâ€Soakingâ€•Free Electron Extraction Material for Organic Solar Cells. Advanced Energy Materials, 2015, 5, 1500277.	10.2	82
53	An Ultraviolet Organic Thin-Film Solid-State Laser for Biomarker Applications. Advanced Materials, 2005, 17, 31-34.	11.1	77
54	Metal-nanostructures â€“ a modern and powerful platform to create transparent electrodes for thin-film photovoltaics. Journal of Materials Chemistry A, 2016, 4, 14481-14508.	5.2	77

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55	Distributed Feedback Lasers Based on MAPbBr₃. Advanced Materials Technologies, 2018, 3, 1700253.	3.0	77
56	Thermal properties of metal-halide perovskites. Journal of Materials Chemistry C, 2020, 8, 14289-14311.	2.7	74
57	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
58	Ultrathin interlayers of a conjugated polyelectrolyte for low work-function cathodes in efficient inverted organic solar cells. Organic Electronics, 2013, 14, 951-957.	1.4	72
59	Inverted hybrid organic light-emitting device with polyethylene dioxythiophene-polystyrene sulfonate as an anode buffer layer. Applied Physics Letters, 2003, 83, 5071-5073.	1.5	71
60	Room-temperature solution processed SnOx as an electron extraction layer for inverted organic solar cells with superior thermal stability. Journal of Materials Chemistry, 2012, 22, 16224.	6.7	67
61	Zinc tin oxide based driver for highly transparent active matrix OLED displays. Solid-State Electronics, 2009, 53, 329-331.	0.8	65
62	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
63	Organic solid-state ultraviolet-laser based on spiro-terphenyl. Applied Physics Letters, 2005, 87, 161103.	1.5	63
64	Avoiding Photoinduced Shunts in Organic Solar Cells by the Use of Tin Oxide (SnO_x) as Electron Extraction Material Instead of ZnO. Advanced Energy Materials, 2016, 6, 1600347.	10.2	63
65	Transparent Electronics for See-Through AMOLED Displays. Journal of Display Technology, 2009, 5, 501-508.	1.3	62
66	Water as Origin of Hysteresis in Zinc Tin Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2012, 4, 4453-4456.	4.0	62
67	Nitrogen-doped porous carbon/graphene nanosheets derived from two-dimensional conjugated microporous polymer sandwiches with promising capacitive performance. Materials Chemistry Frontiers, 2017, 1, 278-285.	3.2	62
68	Red-light-emitting injection laser based on InP/GaInP self-assembled quantum dots. Applied Physics Letters, 1998, 73, 1784-1786.	1.5	60
69	Vertical channel all-organic thin-film transistors. Applied Physics Letters, 2003, 82, 4579-4580.	1.5	58
70	Laser threshold reduction in an all-spiro guestâ€“host system. Applied Physics Letters, 2004, 85, 1659-1661.	1.5	58
71	Threshold Reduction in Polymer Lasers Based on Poly(9,9-dioctylfluorene) with Statistical Binaphthyl Units. Advanced Functional Materials, 2005, 15, 1188-1192.	7.8	57
72	Highly sensitive gas-phase explosive detection by luminescent microporous polymer networks. Scientific Reports, 2016, 6, 29118.	1.6	57

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73	Large-Grain Double Cation Perovskites with 18 Î¼s Lifetime and High Luminescence Yield for Efficient Inverted Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 1045-1054.	8.8	54
74	Transition metal oxides as charge injecting layer for admittance spectroscopy. Applied Physics Letters, 2008, 92, .	1.5	53
75	Wavelength-tunable organic solid-state distributed-feedback laser. Applied Physics B: Lasers and Optics, 2003, 77, 399-402.	1.1	52
76	Quasi-continuous-wave operation of an organic thin-film distributed feedback laser. Applied Physics Letters, 2006, 89, 081115.	1.5	49
77	Deep and Shallow TiO2 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
78	All-organic thin-film transistors patterned by means of selective electropolymerization. Applied Physics Letters, 2003, 83, 4044-4046.	1.5	47
79	Atomic Layer Deposition of Functional Layers in Planar Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900332.	3.1	46
80	Gas Diffusion Barriers Prepared by Spatial Atmospheric Pressure Plasma Enhanced ALD. ACS Applied Materials & Interfaces, 2017, 9, 4171-4176.	4.0	41
81	Growth of self-assembled InP quantum islands for red-light-emitting injection lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 482-490.	1.9	40
82	Highly Sensitive Determination of the Polaron-Induced Optical Absorption of Organic Charge-Transport Materials. Physical Review Letters, 2009, 102, 137401.	2.9	40
83	Low-voltage organic electroluminescence device with an ultrathin, hybrid structure. Applied Physics Letters, 2003, 82, 4178-4180.	1.5	39
84	Plasmonically sensitized metal-oxide electron extraction layers for organic solar cells. Scientific Reports, 2015, 5, 7765.	1.6	39
85	Stress Management in Thin-Film Gas-Permeation Barriers. ACS Applied Materials & Interfaces, 2016, 8, 4056-4061.	4.0	39
86	Impact of Shell Growth on Recombination Dynamics and Excitonâ€“Phonon Interaction in CdSeâ€“CdS Coreâ€“Shell Nanoplatelets. ACS Nano, 2018, 12, 9476-9483.	7.3	39
87	Extremely Robust Gas-Quenching Deposition of Halide Perovskites on Top of Hydrophobic Hole Transport Materials for Inverted (pâ€“iâ€“n) Solar Cells by Targeting the Precursor Wetting Issue. ACS Applied Materials & Interfaces, 2019, 11, 40172-40179.	4.0	39
88	Microcontact Printing as a Versatile Tool for Patterning Organic Field-Effect Transistors. Advanced Materials, 2005, 17, 1523-1527.	11.1	36
89	Determination of manganese valency in La1â¯xSrxMnO3 using ELNES in the (S)TEM. Micron, 2007, 38, 224-230.	1.1	36
90	Ultraâ€high longâ€term stability of oxideâ€TFTs under current stress. Physica Status Solidi - Rapid Research Letters, 2007, 1, 175-177.	1.2	36

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91	Room temperature lifetime of triplet excitons in fluorescent host/guest systems. Organic Electronics, 2011, 12, 486-491.	1.4	36
92	Spectrally separated optical gain and triplet absorption: Towards continuous wave lasing in organic thin film lasers. Organic Electronics, 2011, 12, 1346-1351.	1.4	36
93	Charge carrier densities in chemically doped organic semiconductors verified by two independent techniques. Applied Physics Letters, 2010, 96, .	1.5	35
94	Facile Preparation of Highâ€Performance Elastically Stretchable Interconnects. Advanced Materials, 2015, 27, 3755-3759.	11.1	34
95	An organic p-i-n homojunction as ultra violet light emitting diode and visible-blind photodiode in one. Applied Physics Letters, 2011, 99, 053301.	1.5	33
96	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
97	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
98	Encapsulation of Zinc Tin Oxide Based Thin Film Transistors. Journal of Physical Chemistry C, 2009, 113, 11126-11130.	1.5	31
99	A novel label-free cell-based assay technology using biolayer interferometry. Biosensors and Bioelectronics, 2017, 87, 388-395.	5.3	31
100	Low loss contacts for organic semiconductor lasers. Applied Physics Letters, 2006, 89, 161113.	1.5	30
101	2D Heterostructures Derived from MoS₂â€Templated, Cobaltâ€Containing Conjugated Microporous Polymer Sandwiches for the Oxygen Reduction Reaction and Electrochemical Energy Storage. ChemElectroChem, 2017, 4, 709-715.	1.7	30
102	Allâ€Oxide MoO_x/SnO_x Charge Recombination Interconnects for Inverted Organic Tandem Solar Cells. Advanced Energy Materials, 2018, 8, 1702533.	10.2	30
103	Impermeable Charge Transport Layers Enable Aqueous Processing on Top of Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1903897.	10.2	30
104	Atmospheric pressure plasma enhanced spatial atomic layer deposition of SnOx as conductive gas diffusion barrier. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	29
105	Organic solid-state lasers based on sexiphenyl as active chromophore. Journal of Applied Physics, 2005, 98, 043104.	1.1	27
106	Organic vertical-channel transistors structured using excimer laser. Applied Physics Letters, 2004, 85, 5751-5753.	1.5	26
107	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. Thin Solid Films, 2012, 520, 4669-4673.	0.8	26
108	Facile Encapsulation of Oxide based Thin Film Transistors by Atomic Layer Deposition based on Ozone. Advanced Materials, 2013, 25, 2821-2825.	11.1	26

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109	Thermal microscopy of electronic materials. Materials Science in Semiconductor Processing, 2016, 43, 163-176.	1.9	25
110	A continuously tunable organic DFB laser. Microelectronic Engineering, 2005, 78-79, 364-368.	1.1	24
111	Top-gate zinc tin oxide thin-film transistors with high bias and environmental stress stability. Applied Physics Letters, 2014, 104, .	1.5	24
112	Band-Gap Tuning in All-Inorganic CsPb_xSn_{1â€“x}Br₃ Perovskites. ACS Applied Materials & Interfaces, 2021, 13, 4203-4210.	4.0	24
113	A comparative study demonstrates strong size tunability of carrierâ€“phonon coupling in CdSe-based 2D and 0D nanocrystals. Nanoscale, 2019, 11, 3958-3967.	2.8	24
114	An Nâ€Heterocyclic Carbene Based Silver Precursor for Plasmaâ€Enhanced Spatial Atomic Layer Deposition of Silver Thin Films at Atmospheric Pressure. Angewandte Chemie - International Edition, 2018, 57, 16224-16227.	7.2	22
115	Solutionâ€Processed Tin Oxideâ€PEDOT:PSS Interconnecting Layers for Efficient Inverted and Conventional Tandem Polymer Solar Cells. Solar Rrl, 2019, 3, 1800366.	3.1	22
116	Injection lasers with vertically aligned InP/GaInP quantum dots: Dependence of the threshold current on temperature and dot size. Applied Physics Letters, 1998, 73, 3730-3732.	1.5	21
117	Loss reduction in fully contacted organic laser waveguides using TE2 modes. Applied Physics Letters, 2007, 91, 041113.	1.5	21
118	Microwave annealing of polymer solar cells with various transparent anode materials. Applied Physics Letters, 2010, 97, 123306.	1.5	21
119	Enhanced stability against bias-stress of metal-oxide thin film transistors deposited at elevated temperatures. Applied Physics Letters, 2011, 99, .	1.5	21
120	Surface modeling and chemical solution deposition of SrO(SrTiO3) Ruddlesdenâ€“Popper phases. Acta Materialia, 2010, 58, 4650-4659.	3.8	20
121	Conformal and Highly Luminescent Monolayers of Alq₃ Prepared by Gas-Phase Molecular Layer Deposition. ACS Applied Materials & Interfaces, 2014, 6, 1193-1199.	4.0	20
122	Thermal nanoimprint to improve the morphology of MAPbX3 (MAâ€‰=â€‰methylammonium, Xâ€‰=â€‰I or Br). Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2017, 35, .	0.6	20
123	Nonlinear refraction in CH₃NH₃PbBr₃ single crystals. Optics Letters, 2020, 45, 2431.	1.7	19
124	Mn Valency at La0.7Sr0.3MnO3/SrTiO3 (0 0 1) Thin Film Interfaces. Microscopy and Microanalysis, 2009, 15, 213-221.	0.2	18
125	Gas permeation barriers deposited by atmospheric pressure plasma enhanced atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	18
126	Investigations on the performance of multiquantum barriers in short wavelength (630 nm) AlGaInP laser diodes. Applied Physics Letters, 1999, 74, 2158-2160.	1.5	17

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127	Gas permeability of Langmuirâ€“Blodgett (LB) films: characterisation and application. Thin Solid Films, 2000, 379, 240-252.	0.8	17
128	Towards a video-capable wireless underwater modem: Doppler tolerant broadband acoustic communication. , 2014, , .		17
129	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
130	Controlled Mechanical Cracking of Metal Films Deposited on Polydimethylsiloxane (PDMS). Nanomaterials, 2016, 6, 168.	1.9	16
131	From diffusive to ballistic Stefanâ€“Boltzmann heat transport in thin non-crystalline films. RSC Advances, 2016, 6, 94193-94199.	1.7	16
132	Optical and structural anisotropy of InP/GaInP quantum dots for laser applications. Applied Physics Letters, 2003, 83, 887-889.	1.5	15
133	Photoexcitation dynamics in polyfluorene-based thin films: Energy transfer and amplified spontaneous emission. Physical Review B, 2012, 85, .	1.1	15
134	Thermal properties of CsPbCl3 thin films across phase transitions. JPhys Materials, 2020, 3, 024004.	1.8	15
135	Lasing from excited states in self-assembled InP/GaInP quantum islands. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 74, 263-268.	1.7	14
136	See-through OLED displays. , 2007, , .		14
137	Suitability of lithium doped electron injection layers for organic semiconductor lasers. Applied Physics Letters, 2007, 90, 151103.	1.5	14
138	Atmospheric Pressure Plasma ALD of Titanium Oxide. Chemical Vapor Deposition, 2013, 19, 167-173.	1.4	14
139	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
140	The Optical Origin of Nearâ€Unity External Quantum Efficiencies in Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100371.	3.1	14
141	Small-signal modulation response of InP/GaInP quantum-dot lasers. Applied Physics Letters, 2002, 80, 4015-4017.	1.5	13
142	Indium-free bottom electrodes for inverted organic solar cells with simplified cell architectures. Applied Physics Letters, 2011, 99, 033304.	1.5	12
143	Program FFlexCom â€” High frequency flexible bendable electronics for wireless communication systems. , 2017, , .		12
144	Stark effect of hybrid charge transfer states at planar ZnO/organic interfaces. Physical Review B, 2018, 98, .	1.1	12

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145	A carbene stabilized precursor for the spatial atomic layer deposition of copper thin films. Chemical Communications, 2020, 56, 13752-13755.	2.2	12
146	Red Light Emitting Injection Lasers with Vertically-Aligned InP/GaInP Quantum Dots. Japanese Journal of Applied Physics, 1999, 38, 597-600.	0.8	11
147	Experimental results with HF underwater acoustic modem for high bandwidth applications. , 2015, , .		11
148	Self-assembled InP quantum dots for red LEDs on Si and injection lasers on GaAs. Journal of Crystal Growth, 1999, 201-202, 1121-1125.	0.7	10
149	Semi-transparent inverted organic solar cells. Proceedings of SPIE, 2009, , .	0.8	10
150	Consolidation of mechanically alloyed nanocrystalline Cuâ€“Nbâ€“ZrO2 powder by spark plasma sintering. Journal of Alloys and Compounds, 2012, 535, 62-69.	2.8	10
151	MUST-READ: Multichannel sample-by-sample turbo resampling equalization and decoding. , 2013, , .		10
152	Manipulating the Morphology of Silver Nanoparticles with Local Plasmonâ€Mediated Control. Particle and Particle Systems Characterization, 2014, 31, 342-346.	1.2	10
153	Influence of lens aberrations, specimen thickness and tilt on differential phase contrast STEM images. Ultramicroscopy, 2020, 219, 113118.	0.8	10
154	Dynamic Near-Field Scanning Thermal Microscopy on thin films. Microelectronics Reliability, 2013, 53, 1413-1417.	0.9	9
155	Upgrading of methylammonium lead halide perovskite layers by thermal imprint. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	9
156	Comparison of OFDM and single-carrier schemes for Doppler Tolerant Acoustic Communications. , 2015, , .		8
157	Bifacial Color-Tunable Electroluminescent Devices. ACS Applied Materials & Interfaces, 2021, 13, 28514-28520.	4.0	8
158	Ordered arrays of Si nanopillars with alternating diameters fabricated by nanosphere lithography and metal-assisted chemical etching. Materials Science in Semiconductor Processing, 2021, 128, 105746.	1.9	8
159	[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. Ultramicrosc	0.8	7
160	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
161	Microstructure manipulation by laser-surface remelting of a full-Heusler compound to enhance thermoelectric properties. Acta Materialia, 2022, 223, 117501.	3.8	7
162	Spatially selective flash sublimation of small organic molecules for organic light-emitting diodes and display applications. Applied Physics Letters, 2003, 82, 2712-2714.	1.5	6

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163	Flexible All-Organic Field-Effect Transistors Fabricated by Electrode-Peeling Transfer. Japanese Journal of Applied Physics, 2004, 43, L130-L132.	0.8	6
164	Organic-GaAs heterostructure diodes for microwave applications. Applied Surface Science, 2004, 234, 22-27.	3.1	6
165	Organic semiconductor distributed feedback lasers. , 2005, , .		6
166	Highly Transparent and Conductive ZTO/Ag/ZTO Multilayer Top Electrodes for Large Area Organic Solar Cells. Energy Procedia, 2012, 31, 110-116.	1.8	6
167	Adsorption Behavior of Lysozyme at Titanium Oxideâ€“Water Interfaces. Langmuir, 2018, 34, 5403-5408.	1.6	6
168	Direct Arylation Polycondensation (DAP) Synthesis of Alternating Quaterthiopheneâ^'Benzothiadiazole Copolymers for Organic Solar Cell Applications. ChemPlusChem, 2019, 84, 1249-1252.	1.3	6
169	A laser induced local transfer for patterning of RGB-OLED-displays. , 2005, , .		5
170	Loss processes in organic double-heterostructure laser diodes. Proceedings of SPIE, 2007, , .	0.8	5
171	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
172	Evaluation of the Beyond-<inline-formula> <tex-math notation="LaTeX">f_T </tex-math> </inline-formula> Operation of an IGZO TFT-Based RF Self-Mixing Circuit. IEEE Microwave and Wireless Components Letters, 2019, 29, 119-121.	2.0	5
173	Relevance of processing parameters for grain growth of metal halide perovskites with nanoimprint. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	5
174	Oled Matrix-Displays. Materials Research Society Symposia Proceedings, 2003, 769, 421.	0.1	4
175	Reliability aspects of organic light emitting diodes. , 2010, , .		4
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