Thomas D Anthopoulos

List of Publications by Year
in descending order

459	33,465	2160	4054
papers	citations	94 h-index	165 g-index

478	478	478	26169
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Situ Growth of (â^'201) Fiberâ€Textured Î²â€Ga₂O₃ Semiconductor Tape for Flexible Thinâ€Film Transistor. Advanced Electronic Materials, 2025, 11, .	5.0	1
2	Ultrafast Coherent Hole Injection at the Interface between CuSCN and Polymer PM6 Using Femtosecond Mid-Infrared Spectroscopy. ACS Applied Materials & Interfaces, 2025, 17, 17757-17766.	8.1	0
3	Solvent-dripping modulated 3D/2D heterostructures for high-performance perovskite solar cells. Nature Communications, 2025, 16, .	14.1	0
4	Labelâ€Free Metalâ€Oxide Transistor Biosensors for Metabolite Detection in Human Saliva. Advanced Science, 2024, 11, .	12.8	3
5	In Recognition of the Instrumental Contribution of Donal Bradley to the Field of Condensed Matter and Applied Physics. Advanced Materials, 2024, 36, .	24.7	0
6	A novel selenophene based non-fullerene acceptor for near-infrared organic photodetectors with ultra-low dark current. Journal of Materials Chemistry C, 2024, 12, 5766-5775.	5.1	1
7	In memory of Professor Gilles Horowitz. Journal of Materials Chemistry C, 2024, 12, 5272-5273.	5.1	0
8	Metal oxide thin film electronics. Applied Physics Letters, 2024, 124, .	3.2	2
9	Stable Organic Solar Cells Enabled by Simultaneous Hole and Electron Interlayer Engineering. Energy and Environmental Materials, 2024, 7, .	13.9	2
10	Contactâ€Engineering of Selfâ€Alignedâ€Gate Metal Oxide Transistors Processed via Electrode Selfâ€Delamination and Rapid Photonic Curing. Advanced Functional Materials, 2024, 34, .	17.1	0
11	Over 19% Efficient Inverted Organic Photovoltaics Featuring a Molecularly Doped Metal Oxide Electronâ€Transporting Layer. Advanced Materials, 2024, 36, .	24.7	3
12	Three-dimensional integrated metal-oxide transistors. Nature Electronics, 2024, 7, 768-776.	18.3	8
13	Enhancing the Electrical Conductivity and Longâ€Term Stability of PEDOT:PSS Electrodes through Sequential Treatment with Nitric Acid and Cesium Chloride. Advanced Materials, 2024, 36, .	24.7	5
14	Tuning Hole-Injection in Organic-Light Emitting Diodes with Self-Assembled Monolayers. ACS Applied Materials & Interfaces, 2024, 16, 39728-39736.	8.1	1
15	Nature of the carrier dynamics and contrast formation on the photoactive material surfaces: Insight from ultrafast imaging to DFT calculations. Journal of Chemical Physics, 2024, 161, .	3.0	0
16	Highâ€Efficiency Perovskiteâ€“Organic Blend Lightâ€Emitting Diodes Featuring Selfâ€Assembled Monolayers as Holeâ€Injecting Interlayers. Advanced Energy Materials, 2023, 13, .	22.7	24
17	Ultraâ€Narrowband Nearâ€Infrared Responsive Jâ€Aggregates of Fused Quinoidal Tetracyanoindacenodithiophene. Advanced Materials, 2023, 35, .	24.7	10
18	In Situ Generation of nâ€Type Dopants by Thermal Decarboxylation. Advanced Functional Materials, 2023, 33, .	17.1	8

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19	Fully Sprayed Metal Oxide Transistors Utilizing Ti₃C₂T_x MXene Contacts. ACS Applied Electronic Materials, 2023, 5, 784-793.	4.7	7
20	N-type polymer semiconductors incorporating heteroannulated benzothiadiazole. Polymer Chemistry, 2023, 14, 469-476.	3.9	4
21	Visualization of domain structure and piezoelectric energy harvesting in a ferroelectric metalâ€“ligand cage. Chemical Communications, 2023, 59, 2919-2922.	4.2	3
22	A 19% efficient and stable organic photovoltaic device enabled by a guest nonfullerene acceptor with fibril-like morphology. Energy and Environmental Science, 2023, 16, 1062-1070.	30.6	98
23	18.73% efficient and stable inverted organic photovoltaics featuring a hybrid hole-extraction layer. Materials Horizons, 2023, 10, 1292-1300.	10.3	21
24	Surface Modification of Hetero-phase Nanoparticles for Low-Cost Solution-Processable High-k Dielectric Polymer Nanocomposites. ACS Applied Materials & Interfaces, 2023, 15, 7371-7379.	8.1	13
25	Modulating Photothermal Properties of Carbon Dots through Nitrogen Incorporation Enables Efficient Solar Water Evaporation. ACS Applied Nano Materials, 2023, 6, 2517-2526.	5.4	16
26	Recent Progress in Colloidal Quantum Dot Thermoelectrics. Advanced Materials, 2023, 35, .	24.7	6
27	Flexible Oxide Thin Film Transistors, Memristors, and Their Integration. Advanced Functional Materials, 2023, 33, .	17.1	36
28	Advances in Organometallic Perovskites Enabled Radiation Detection Technologies. , 2023, , 111-140.		0
29	3D-printed polymer composite devices based on a ferroelectric chiral ammonium salt for high-performance piezoelectric energy harvesting. Materials Horizons, 2023, 10, 3153-3161.	10.3	14
30	Interfacial Reconstructed Layer Controls the Orientation of Monolayer Transition-Metal Dichalcogenides. ACS Nano, 2023, 17, 10010-10018.	15.4	11
31	Non-invasive, ultrasensitive detection of glucose in saliva using metal oxide transistors. Biosensors and Bioelectronics, 2023, 237, 115448.	9.9	15
32	On the Conformation of Dimeric Acceptors and Their Polymer Solar Cells with Efficiency over 18â€‰%. Angewandte Chemie - International Edition, 2023, 62, .	15.0	62
33	On the Conformation of Dimeric Acceptors and Their Polymer Solar Cells with Efficiency over 18â€‰%. Angewandte Chemie, 2023, 135, .	1.5	0
34	Understanding the Degradation of Methylenediammonium and Its Role in Phase-Stabilizing Formamidinium Lead Triiodide. Journal of the American Chemical Society, 2023, 145, 10275-10284.	15.7	33
35	Design and Piezoelectric Energy Harvesting Properties of a Ferroelectric Cyclophosphazene Salt. Small, 2023, 19, .	11.6	9
36	p-Type Conjugated Polymers Containing Electron-Deficient Pentacyclic Azepinedione. Macromolecules, 2023, 56, 5825-5834.	5.2	6

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37	Boosting electron transport in non-fullerene acceptors using non-chlorinated solvents. Journal of Materials Chemistry C, 2023, 11, 12941-12948.	5.1	2
38	Strain-Induced Sulfur Vacancies in Monolayer MoS₂. , 2023, 5, 2584-2593.		7
39	Over 19% Efficiency in Ternary Organic Solar Cells Enabled by n-Type Dopants. ACS Energy Letters, 2023, 8, 4104-4112.	17.5	32
40	Mixedâ€Halide Perovskite Memristors with Gateâ€Tunable Functions Operating at Lowâ€Switching Electric Fields. Advanced Electronic Materials, 2023, 9, .	5.0	7
41	A critical perspective for emerging ultra-thin solar cells with ultra-high power-per-weight outputs. Applied Physics Reviews, 2023, 10, .	10.7	5
42	Neuromorphic computing based on halide perovskites. Nature Electronics, 2023, 6, 949-962.	18.3	26
43	Metal Halide Perovskites for High-Energy Radiation Detection. , 2022, , 119-144.		3
44	Planar refractive index patterning through microcontact photo-thermal annealing of a printable organic/inorganic hybrid material. Materials Horizons, 2022, 9, 411-416.	10.3	6
45	Emissive Chargeâ€Transfer States at Hybrid Inorganic/Organic Heterojunctions Enable Low Nonâ€Radiative Recombination and Highâ€Performance Photodetectors. Advanced Materials, 2022, 34, .	24.7	19
46	Oligoethylene Glycol Side Chains Increase Charge Generation in Organic Semiconductor Nanoparticles for Enhanced Photocatalytic Hydrogen Evolution. Advanced Materials, 2022, 34, .	24.7	49
47	A Lowâ€Power CuSCN Hydrogen Sensor Operating Reversibly at Room Temperature. Advanced Functional Materials, 2022, 32, .	17.1	14
48	A Triâ€Channel Oxide Transistor Concept for the Rapid Detection of Biomolecules Including the SARSâ€CoVâ€2 Spike Protein. Advanced Materials, 2022, 34, .	24.7	20
49	Over 18% ternary polymer solar cells enabled by a terpolymer as the third component. Nano Energy, 2022, 92, 106681.	16.3	111
50	Doping Approaches for Organic Semiconductors. Chemical Reviews, 2022, 122, 4420-4492.	54.6	248
51	Y6 Organic Thinâ€Film Transistors with Electron Mobilities of 2.4 cm² V^{â^'1} s^{â^'1} via Microstructural Tuning. Advanced Science, 2022, 9, .	12.8	27
52	N-type polymer semiconductors incorporating para, meta, and ortho-carborane in the conjugated backbone. Polymer, 2022, 240, 124481.	4.2	12
53	14ÂGHz Schottky Diodes Using a pâ€Doped Organic Polymer. Advanced Materials, 2022, 34, .	24.7	16
54	Versatile methods for improving the mechanical properties of fullerene and non-fullerene bulk heterojunction layers to enable stretchable organic solar cells. Journal of Materials Chemistry C, 2022, 10, 3375-3386.	5.1	13

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55	A Universal Cosolvent Evaporation Strategy Enables Direct Printing of Perovskite Single Crystals for Optoelectronic Device Applications. Advanced Materials, 2022, 34, .	24.7	25
56	Bismuth-based mixed-anion compounds for anode materials in rechargeable batteries. Chemical Communications, 2022, 58, 3354-3357.	4.2	15
57	Scaled Deposition of Ti₃C₂T_x MXene on Complex Surfaces: Application Assessment as Rear Electrodes for Silicon Heterojunction Solar Cells. ACS Nano, 2022, 16, 2419-2428.	15.4	44
58	Trace Solvent Additives Enhance Charge Generation in Layerâ€byâ€Layer Coated Organic Solar Cells. Small Structures, 2022, 3, .	11.1	27
59	Infrared Organic Photodetectors Employing Ultralow Bandgap Polymer and Nonâ€Fullerene Acceptors for Biometric Monitoring. Small, 2022, 18, .	11.6	65
60	Generation of long-lived charges in organic semiconductor heterojunction nanoparticles for efficient photocatalytic hydrogen evolution. Nature Energy, 2022, 7, 340-351.	26.7	245
61	Efficient Piezoelectric Energy Harvesting from a Discrete Hybrid Bismuth Bromide Ferroelectric Templated by Phosphonium Cation. Chemistry - A European Journal, 2022, 28, .	3.5	12
62	Low-energy consumption CuSCN-based ultra-low-ppb level ozone sensor, operating at room temperature. Sensors and Actuators A: Physical, 2022, 338, 113462.	4.8	3
63	Near-IR Absorbing Molecular Semiconductors Incorporating Cyanated Benzothiadiazole Acceptors for High-Performance Semitransparent n-Type Organic Field-Effect Transistors. , 2022, 4, 165-174.		18
64	Chlorine-Infused Wide-Band Gap p-CuSCN/n-GaN Heterojunction Ultraviolet-Light Photodetectors. ACS Applied Materials & Interfaces, 2022, 14, 17889-17898.	8.1	8
65	Charge transport and recombination in wide-bandgap Y6 derivatives-based organic solar cells. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2022, 13, 025001.	1.8	1
66	Radiofrequency Schottky Diodes Based on p-Doped Copper(I) Thiocyanate (CuSCN). ACS Applied Materials & Interfaces, 2022, 14, 29993-29999.	8.1	5
67	Rapid and up-scalable manufacturing of gigahertz nanogap diodes. Nature Communications, 2022, 13, .	14.1	14
68	Addition of Diquat Enhances the Electron Mobility in Various Nonâ€Fullerene Acceptor Molecules. Advanced Functional Materials, 2022, 32, .	17.1	9
69	Two-dimensional ferroelectricity and antiferroelectricity for next-generation computing paradigms. Matter, 2022, 5, 1999-2014.	13.9	15
70	The Energy Level Conundrum of Organic Semiconductors in Solar Cells. Advanced Materials, 2022, 34, .	24.7	109
71	Photophysics of Defect-Passivated Quasi-2D (PEA)₂PbBr₄ Perovskite Using an Organic Small Molecule. ACS Energy Letters, 2022, 7, 2450-2458.	17.5	10
72	Doping-induced decomposition of organic semiconductors: a caveat to the use of Lewis acid p-dopants. Journal of Materials Chemistry C, 2022, 10, 12751-12764.	5.1	4

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73	Cl₂-Doped CuSCN Hole Transport Layer for Organic and Perovskite Solar Cells with Improved Stability. ACS Energy Letters, 2022, 7, 3139-3148.	17.5	45
74	High-conductivity screen-printable silver nanowire Ink for optically transparent flexible radio frequency electronics. Flexible and Printed Electronics, 2022, 7, 044001.	3.2	5
75	18.9% Efficient Organic Solar Cells Based on nâ€Doped Bulkâ€Heterojunction and Halogenâ€Substituted Selfâ€Assembled Monolayers as Hole Extracting Interlayers. Advanced Energy Materials, 2022, 12, .	22.7	90
76	Monolithic Perovskiteâ€“Perovskiteâ€“Organic Triple-Junction Solar Cells with a Voltage Output Exceeding 3 V. ACS Energy Letters, 2022, 7, 4469-4471.	17.5	11
77	Impact of layer thickness on the operating characteristics of In2O3/ZnO heterojunction thin-film transistors. Applied Physics Letters, 2022, 121, .	3.2	18
78	The effect of residual palladium on the performance of organic electrochemical transistors. Nature Communications, 2022, 13, .	14.1	39
79	Wirelessly powered large-area electronics for the Internet of Things. Nature Electronics, 2022, , .	18.3	27
80	Sequential Formation of Tunableâ€Bandgap Mixedâ€Halide Leadâ€Based Perovskites: In Situ Investigation and Photovoltaic Devices. Solar Rrl, 2021, 5, .	4.7	17
81	Scaling-up perovskite solar cells on hydrophobic surfaces. Nano Energy, 2021, 81, 105633.	16.3	69
82	Unraveling the New Role of an Ethylene Carbonate Solvation Shell in Rechargeable Metal Ion Batteries. ACS Energy Letters, 2021, 6, 69-78.	17.5	136
83	Amphipathic Side Chain of a Conjugated Polymer Optimizes Dopant Location toward Efficient Nâ€Type Organic Thermoelectrics. Advanced Materials, 2021, 33, .	24.7	109
84	Oneâ€Step Sixfold Cyanation of Benzothiadiazole Acceptor Units for Airâ€Stable Highâ€Performance nâ€Type Organic Fieldâ€Effect Transistors. Angewandte Chemie - International Edition, 2021, 60, 5970-5977.	15.0	48
85	Oneâ€Step Sixfold Cyanation of Benzothiadiazole Acceptor Units for Airâ€Stable Highâ€Performance nâ€Type Organic Fieldâ€Effect Transistors. Angewandte Chemie, 2021, 133, 6035-6042.	1.5	6
86	The influence of alkyl group regiochemistry and backbone fluorination on the packing and transistor performance of N-cyanoimine functionalised indacenodithiophenes. Materials Advances, 2021, 2, 1706-1714.	4.8	9
87	N-Doping improves charge transport and morphology in the organic non-fullerene acceptor O-IDTBR. Journal of Materials Chemistry C, 2021, 9, 4486-4495.	5.1	20
88	Molecular doping of near-infrared organic photodetectors for photoplethysmogram sensors. Journal of Materials Chemistry C, 2021, 9, 3129-3135.	5.1	8
89	Tyrian purple: an ancient natural dye for cross-conjugated n-type charge transport. Journal of Materials Chemistry C, 2021, 9, 4200-4205.	5.1	2
90	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of Ti₃C₂T_x MXene Contacts. ACS Nano, 2021, 15, 5221-5229.	15.4	35

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91	Wide and Tunable Bandgap MAPbBr_{3â^'x}Cl_x Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. Solar Rrl, 2021, 5, .	4.7	38
92	Lithiumâ€Ion Desolvation Induced by Nitrate Additives Reveals New Insights into High Performance Lithium Batteries. Advanced Functional Materials, 2021, 31, .	17.1	131
93	Adduct-based p-doping of organic semiconductors. Nature Materials, 2021, 20, 1248-1254.	20.9	53
94	Efficient Hybrid Amorphous Silicon/Organic Tandem Solar Cells Enabled by Nearâ€Infrared Absorbing Nonfullerene Acceptors. Advanced Energy Materials, 2021, 11, .	22.7	6
95	Polymorphism in Nonâ€Fullerene Acceptors Based on Indacenodithienothiophene. Advanced Functional Materials, 2021, 31, .	17.1	39
96	Wide-Band-Gap Mixed-Halide 3D Perovskites: Electronic Structure and Halide Segregation Investigation. ACS Applied Electronic Materials, 2021, 3, 2277-2285.	4.7	12
97	18.4â€‰% Organic Solar Cells Using a High Ionization Energy Selfâ€Assembled Monolayer as Holeâ€Extraction Interlayer. ChemSusChem, 2021, 14, 3569-3578.	6.3	159
98	Concurrent cationic and anionic perovskite defect passivation enables 27.4% perovskite/silicon tandems with suppression of halide segregation. Joule, 2021, 5, 1566-1586.	29.1	153
99	Significant Performance Improvement in nâ€Channel Organic Fieldâ€Effect Transistors with C₆₀:C₇₀ Coâ€Crystals Induced by Poly(2â€ethylâ€2â€oxazoline) Nanodots. Advanced Materials, 2021, 33, .	24.7	12
100	Ternary organic photodetectors based on pseudo-binaries nonfullerene-based acceptors. JPhys Materials, 2021, 4, 045001.	3.8	11
101	Pushing the Limits of Flexibility and Stretchability of Solar Cells: A Review. Advanced Materials, 2021, 33, .	24.7	69
102	Determining Out-of-Plane Hole Mobility in CuSCN via the Time-of-Flight Technique To Elucidate Its Function in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 38499-38507.	8.1	5
103	Using Two Compatible Donor Polymers Boosts the Efficiency of Ternary Organic Solar Cells to 17.7%. Chemistry of Materials, 2021, 33, 7254-7262.	6.9	41
104	Interfacial Model Deciphering Highâ€Voltage Electrolytes for High Energy Density, High Safety, and Fastâ€Charging Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, .	24.7	173
105	Unraveling the compositional heterogeneity and carrier dynamics of alkali cation doped 3D/2D perovskites with improved stability. Materials Advances, 2021, 2, 1253-1262.	4.8	29
106	The Effect of Alkyl Spacers on the Mixed Ionicâ€Electronic Conduction Properties of Nâ€Type Polymers. Advanced Functional Materials, 2021, 31, .	17.1	85
107	Ruddlesdenâ€“Popperâ€Phase Hybrid Halide Perovskite/Smallâ€Molecule Organic Blend Memory Transistors. Advanced Materials, 2021, 33, .	24.7	41
108	Bias stability of solution-processed In₂O₃ thin film transistors. JPhys Materials, 2021, 4, 015003.	3.8	5

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109	Chemical Design Rules for Nonâ€Fullerene Acceptors in Organic Solar Cells. Advanced Energy Materials, 2021, 11, .	22.7	52
110	Printed Memtransistor Utilizing a Hybrid Perovskite/Organic Heterojunction Channel. ACS Applied Materials & Interfaces, 2021, 13, 51592-51601.	8.1	11
111	Charge Carrier Recombination at Perovskite/Hole Transport Layer Interfaces Monitored by Time-Resolved Spectroscopy. ACS Energy Letters, 2021, 6, 4155-4164.	17.5	47
112	Sputtered transparent electrodes for optoelectronic devices: Induced damage and mitigation strategies. Matter, 2021, 4, 3549-3584.	13.9	75
113	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. Joule, 2021, 5, 3169-3186.	29.1	142
114	Transistors based on two-dimensional materials for future integrated circuits. Nature Electronics, 2021, 4, 786-799.	18.3	561
115	Rapid photodegradation of organic micro-pollutants in water using high-intensity pulsed light. Journal of Water Process Engineering, 2021, 44, 102414.	6.2	6
116	Hall Effect in Polycrystalline Organic Semiconductors: The Effect of Grain Boundaries. Advanced Functional Materials, 2020, 30, .	17.1	47
117	Recent Progress in Photonic Processing of Metalâ€Oxide Transistors. Advanced Functional Materials, 2020, 30, .	17.1	72
118	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. Energy and Environmental Science, 2020, 13, 268-276.	30.6	51
119	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: in situ investigation and highly efficient solar cells. Journal of Materials Chemistry A, 2020, 8, 1095-1104.	9.3	76
120	Novel wide-bandgap non-fullerene acceptors for efficient tandem organic solar cells. Journal of Materials Chemistry A, 2020, 8, 1164-1175.	9.3	41
121	Colossal Tunneling Electroresistance in Coâ€Planar Polymer Ferroelectric Tunnel Junctions. Advanced Electronic Materials, 2020, 6, .	5.0	16
122	Modification of Indacenodithiophene-Based Polymers and Its Impact on Charge Carrier Mobility in Organic Thin-Film Transistors. Journal of the American Chemical Society, 2020, 142, 652-664.	15.7	130
123	Low-Temperature Cross-Linking Benzocyclobutene Based Polymer Dielectric for Organic Thin Film Transistors on Plastic Substrates. Journal of Organic Chemistry, 2020, 85, 277-283.	3.8	24
124	Polymer Lightâ€Emitting Transistors With Chargeâ€Carrier Mobilities Exceeding 1 cm² V^{â^'1} s^{â^'1}. Advanced Electronic Materials, 2020, 6, .	5.0	9
125	Nonfullerene-Based Organic Photodetectors for Ultrahigh Sensitivity Visible Light Detection. ACS Applied Materials & Interfaces, 2020, 12, 48836-48844.	8.1	44
126	100â€‰GHz zinc oxide Schottky diodes processed from solution on a wafer scale. Nature Electronics, 2020, 3, 718-725.	18.3	57

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127	Long-range exciton diffusion in molecular non-fullerene acceptors. Nature Communications, 2020, 11, .	14.1	263
128	Quantum Confinement and Thicknessâ€Dependent Electron Transport in Solutionâ€Processed In₂O₃ Transistors. Advanced Electronic Materials, 2020, 6, .	5.0	23
129	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. Energy and Environmental Science, 2020, 13, 5017-5027.	30.6	177
130	A Structurally Simple but Highâ€Performing Donorâ€“Acceptor Polymer for Fieldâ€Effect Transistor Applications. Advanced Electronic Materials, 2020, 6, .	5.0	12
131	N-type organic thermoelectrics: demonstration of ZTâ€‰>â€‰0.3. Nature Communications, 2020, 11, .	14.1	127
132	Efficient Double- and Triple-Junction Nonfullerene Organic Photovoltaics and Design Guidelines for Optimal Cell Performance. ACS Energy Letters, 2020, 5, 3692-3701.	17.5	15
133	Metal Halide Perovskites for Highâ€Energy Radiation Detection. Advanced Science, 2020, 7, .	12.8	179
134	A Simple n-Dopant Derived from Diquat Boosts the Efficiency of Organic Solar Cells to 18.3%. ACS Energy Letters, 2020, 5, 3663-3671.	17.5	260
135	A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, .	17.1	18
136	Impact of p-type doping on charge transport in blade-coated small-molecule:polymer blend transistors. Journal of Materials Chemistry C, 2020, 8, 15368-15376.	5.1	22
137	Optoelectronic Ferroelectric Domainâ€Wall Memories Made from a Single Van Der Waals Ferroelectric. Advanced Functional Materials, 2020, 30, .	17.1	79
138	Printable CsPbI₃ Perovskite Solar Cells with PCE of 19% via an Additive Strategy. Advanced Materials, 2020, 32, .	24.7	173
139	Ambipolar Deep-Subthreshold Printed-Carbon-Nanotube Transistors for Ultralow-Voltage and Ultralow-Power Electronics. ACS Nano, 2020, 14, 14036-14046.	15.4	35
140	Ledge-directed epitaxy of continuously self-aligned single-crystalline nanoribbons of transition metal dichalcogenides. Nature Materials, 2020, 19, 1300-1306.	20.9	125
141	Understanding Charge Transport in Highâ€Mobility pâ€Doped Multicomponent Blend Organic Transistors. Advanced Electronic Materials, 2020, 6, .	5.0	18
142	Self-Assembled Monolayer Enables Hole Transport Layer-Free Organic Solar Cells with 18% Efficiency and Improved Operational Stability. ACS Energy Letters, 2020, 5, 2935-2944.	17.5	516
143	Lowâ€Voltage Heterojunction Metal Oxide Transistors via Rapid Photonic Processing. Advanced Electronic Materials, 2020, 6, .	5.0	25
144	Highâ€Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer. Advanced Energy Materials, 2020, 10, .	22.7	25

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145	Emerging Thinâ€Film Transistor Technologies and Applications. Advanced Functional Materials, 2020, 30, .	17.1	11
146	Colloidal Quantum Dot Photovoltaics Using Ultrathin, Solution-Processed Bilayer In₂O₃/ZnO Electron Transport Layers with Improved Stability. ACS Applied Energy Materials, 2020, 3, 5135-5141.	5.4	15
147	Highly transparent and conductive electrodes enabled by scalable printing-and-sintering of silver nanowires. Nanotechnology, 2020, 31, 395201.	2.7	37
148	Water stable molecular n-doping produces organic electrochemical transistors with high transconductance and record stability. Nature Communications, 2020, 11, .	14.1	102
149	Rapid Photonic Processing of High-Electron-Mobility PbS Colloidal Quantum Dot Transistors. ACS Applied Materials & Interfaces, 2020, 12, 31591-31600.	8.1	18
150	Efficient Hybrid Mixedâ€Ion Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. Solar Rrl, 2020, 4, .	4.7	24
151	Liquid phase exfoliation of MoS₂ and WS₂ in aqueous ammonia and their application in highly efficient organic solar cells. Journal of Materials Chemistry C, 2020, 8, 5259-5264.	5.1	130
152	A Highly Conductive Titanium Oxynitride Electronâ€Selective Contact for Efficient Photovoltaic Devices. Advanced Materials, 2020, 32, .	24.7	56
153	Role of Alkali-Metal Cations in Electronic Structure and Halide Segregation of Hybrid Perovskites. ACS Applied Materials & Interfaces, 2020, 12, 34402-34412.	8.1	16
154	Low Temperature Scalable Deposition of Copper(I) Thiocyanate Films via Aerosol-Assisted Chemical Vapor Deposition. Crystal Growth and Design, 2020, 20, 5380-5386.	3.5	5
155	Solution-processable and photopolymerisable TiO₂ nanorods as dielectric layers for thin film transistors. RSC Advances, 2020, 10, 25540-25546.	4.5	7
156	Core Fluorination Enhances Solubility and Ambient Stability of an IDTâ€Based nâ€Type Semiconductor in Transistor Devices. Advanced Functional Materials, 2020, 30, .	17.1	30
157	Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. ACS Nano, 2020, 14, 3969-3979.	15.4	31
158	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. ACS Energy Letters, 2020, 5, 793-798.	17.5	254
159	Electrolyte Engineering Enables High Stability and Capacity Alloying Anodes for Sodium and Potassium Ion Batteries. ACS Energy Letters, 2020, 5, 766-776.	17.5	162
160	17.1% Efficient Singleâ€Junction Organic Solar Cells Enabled by nâ€Type Doping of the Bulkâ€Heterojunction. Advanced Science, 2020, 7, .	12.8	183
161	Roomâ€Temperature Partial Conversion of Î±â€FAPbI₃Perovskite Phase via PbI₂Solvation Enables Highâ€Performance Solar Cells. Advanced Functional Materials, 2020, 30, .	17.1	53
162	Crucial Role of Fluorine in Fully Alkylated Ladder-Type Carbazole-Based Nonfullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 9555-9562.	8.1	34

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163	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. Nature Energy, 2020, 5, 131-140.	26.7	1,013
164	Thienyl Sidechain Substitution and Backbone Fluorination of Benzodithiophene-Based Donor Polymers Concertedly Minimize Carrier Losses in ITIC-Based Organic Solar Cells. Journal of Physical Chemistry C, 2020, 124, 10420-10429.	3.2	10
165	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. Nature Materials, 2020, 20, 378-384.	20.9	308
166	Stretchable and Transparent Conductive PEDOT:PSSâ€Based Electrodes for Organic Photovoltaics and Strain Sensors Applications. Advanced Functional Materials, 2020, 30, .	17.1	109
167	Heterojunction oxide thin-film transistors. , 2020, , 5-1-5-27.		5
168	Device Physics in Organic Solar Cells and Drift-Diffusion Simulations. , 2020, , 8-1-8-36.		2
169	In Situ Investigation and Photovoltaic Devices: Sequential Formation of Tunable-Bandgap Mixed-Halide Lead-based Perovskites. , 2020, , .		1
170	Flexible IGZO TFTs and Their Suitability for Space Applications. IEEE Journal of the Electron Devices Society, 2019, 7, 1182-1190.	2.4	23
171	Fused Cyclopentadithienothiophene Acceptor Enables Ultrahigh Shortâ€Circuit Current and High Efficiency >11% in Asâ€Cast Organic Solar Cells. Advanced Functional Materials, 2019, 29, .	17.1	28
172	Performance and Stability Improvement of Layered NCM Lithium-Ion Batteries at High Voltage by a Microporous Al₂O₃ Solâ€“Gel Coating. ACS Omega, 2019, 4, 13972-13980.	4.4	60
173	Impact of Layer Configuration and Doping on Electron Transport and Bias Stability in Heterojunction and Superlattice Metal Oxide Transistors. Advanced Functional Materials, 2019, 29, .	17.1	55
174	Impact of Fullerene on the Photophysics of Ternary Small Molecule Organic Solar Cells. Advanced Energy Materials, 2019, 9, .	22.7	44
175	Impact of Nonfullerene Acceptor Side Chain Variation on Transistor Mobility. Advanced Electronic Materials, 2019, 5, .	5.0	52
176	On the Role of Contact Resistance and Electrode Modification in Organic Electrochemical Transistors. Advanced Materials, 2019, 31, .	24.7	60
177	Growth of 2H stacked WSe₂ bilayers on sapphire. Nanoscale Horizons, 2019, 4, 1434-1442.	6.6	25
178	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. Joule, 2019, 3, 1963-1976.	29.1	233
179	The Effect of Ring Expansion in Thienobenzo[b]indacenodithiophene Polymers for Organic Field-Effect Transistors. Journal of the American Chemical Society, 2019, 141, 18806-18813.	15.7	51
180	17% Efficient Organic Solar Cells Based on Liquid Exfoliated WS₂ as a Replacement for PEDOT:PSS. Advanced Materials, 2019, 31, .	24.7	529

#	Article	IF	Citations
181	Self-Powered Perovskite/CdS Heterostructure Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 40204-40213.	8.1	74
182	Efficient and Stable Solution-Processed Organic Light-Emitting Transistors Using a High-k Dielectric. ACS Photonics, 2019, 6, 3159-3165.	7.0	12
183	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO₃) Electron Transport Layer. ACS Applied Energy Materials, 2019, 2, 8090-8097.	5.4	63
184	Use of the Phenâ€NaDPO:Sn(SCN)₂ Blend as Electron Transport Layer Results to Consistent Efficiency Improvements in Organic and Hybrid Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, .	17.1	44
185	Electrochemical Stability and Ambipolar Charge Transport in Diketopyrrolopyrrole-Based Organic Materials. ACS Applied Electronic Materials, 2019, 1, 2037-2046.	4.7	5
186	Ultrathin channels make transistors go faster. Nature Materials, 2019, 18, 1033-1034.	20.9	6
187	Deciphering photocarrier dynamics for tuneable high-performance perovskite-organic semiconductor heterojunction phototransistors. Nature Communications, 2019, 10, .	14.1	58
188	Highly-efficient semi-transparent organic solar cells utilising non-fullerene acceptors with optimised multilayer MoO₃/Ag/MoO₃ electrodes. Materials Chemistry Frontiers, 2019, 3, 450-455.	6.2	41
189	Impact of the Solvation State of Lead Iodide on Its Twoâ€Step Conversion to MAPbI₃: An In Situ Investigation. Advanced Functional Materials, 2019, 29, .	17.1	53
190	Oneâ€Step Bladeâ€Coated Highly Efficient Nonfullerene Organic Solar Cells with a Selfâ€Assembled Interfacial Layer Enabled by Solvent Vapor Annealing. Solar Rrl, 2019, 3, .	4.7	19
191	Introducing a Nonvolatile Nâ€Type Dopant Drastically Improves Electron Transport in Polymer and Smallâ€Molecule Organic Transistors. Advanced Functional Materials, 2019, 29, .	17.1	36
192	High Responsivity and Response Speed Singleâ€Layer Mixedâ€Cation Lead Mixedâ€Halide Perovskite Photodetectors Based on Nanogap Electrodes Manufactured on Largeâ€Area Rigid and Flexible Substrates. Advanced Functional Materials, 2019, 29, .	17.1	40
193	Triarylphosphine Oxide as Cathode Interfacial Material for Inverted Perovskite Solar Cells. Advanced Materials Interfaces, 2019, 6, .	4.2	17
194	Addition of the Lewis Acid Zn(C₆F₅)₂ Enables Organic Transistors with a Maximum Hole Mobility in Excess of 20 cm² V^{â^'1} s^{â^'1}. Advanced Materials, 2019, 31, .	24.7	71
195	Plasmonicâ€Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. Solar Rrl, 2019, 3, .	4.7	39
196	P3HT Molecular Weight Determines the Performance of P3HT:Oâ€IDTBR Solar Cells. Solar Rrl, 2019, 3, .	4.7	32
197	Lightâ€Emitting Transistors Based on Solutionâ€Processed Heterostructures of Selfâ€Organized Multipleâ€Quantumâ€Well Perovskite and Metalâ€Oxide Semiconductors. Advanced Electronic Materials, 2019, 5, .	5.0	22
198	Bismuthâ€Based Perovskiteâ€Inspired Solar Cells: In Situ Diagnostics Reveal Similarities and Differences in the Film Formation of Bismuthâ€and Leadâ€Based Films. Solar Rrl, 2019, 3, .	4.7	43

#	Article	IF	Citations
199	Hybridization of Local Exciton and Charge-Transfer States Reduces Nonradiative Voltage Losses in Organic Solar Cells. Journal of the American Chemical Society, 2019, 141, 6362-6374.	15.7	340
200	Key Parameters Requirements for Nonâ€Fullereneâ€Based Organic Solar Cells with Power Conversion Efficiency >20%. Advanced Science, 2019, 6, .	12.8	158
201	Impact of the Gate Dielectric on Contact Resistance in Highâ€Mobility Organic Transistors. Advanced Electronic Materials, 2019, 5, .	5.0	47
202	A versatile star-shaped organic semiconductor based on benzodithiophene and diketopyrrolopyrrole. Journal of Materials Chemistry C, 2019, 7, 6622-6629.	5.1	17
203	Highly sensitive and room temperature detection of ultra-low concentrations of O₃ using self-powered sensing elements of Cu₂O nanocubes. Nanoscale Advances, 2019, 1, 2009-2017.	4.5	19
204	Rapid photonic curing of solution-processed In2O3 layers on flexible substrates. Applied Surface Science, 2019, 479, 974-979.	6.6	23
205	Adding a new layer to â€˜more than Mooreâ€™. Nature Electronics, 2019, 2, 497-498.	18.3	9
206	Hybrid organicâ€“metal oxide multilayer channel transistors with high operational stability. Nature Electronics, 2019, 2, 587-595.	18.3	53
207	Lyotropic â€˜hairyâ€™ TiO₂ nanorods. Nanoscale Advances, 2019, 1, 254-264.	4.5	8
208	One-step growth of reduced graphene oxide on arbitrary substrates. Carbon, 2019, 144, 457-463.	10.4	16
209	Charge and Triplet Exciton Generation in Neat PC₇₀BM Films and Hybrid CuSCN:PC₇₀BM Solar Cells. Advanced Energy Materials, 2019, 9, .	22.7	21
210	Ultra-high performance organic transistors enabled by molecular doping. , 2019, , .		0
211	Multi-Input Parameter Modulable Memtransistors from Hybrid Perovskite/Conjugated Polymer Heterostructures. , 2019, , .		0
212	Aqueous ammonia-based exfoliation of two dimensional MoS2 and WS2 and their application in non-fullerene organic solar cells. , 2019, , .		0
213	Î±,Î²-Unsubstitutedmeso-positioning thienyl BODIPY: a promising electron deficient building block for the development of near infrared (NIR) p-type donorâ€“acceptor (Dâ€“A) conjugated polymers. Journal of Materials Chemistry C, 2018, 6, 4030-4040.	5.1	23
214	Anion-induced N-doping of naphthalenediimide polymer semiconductor in organic thin-film transistors. Npj Flexible Electronics, 2018, 2, .	14.6	36
215	Alkylated indacenodithieno[3,2-b]thiophene-based all donor ladder-type conjugated polymers for organic thin film transistors. Journal of Materials Chemistry C, 2018, 6, 2004-2009.	5.1	18
216	Copper (I) Selenocyanate (CuSeCN) as a Novel Holeâ€Transport Layer for Transistors, Organic Solar Cells, and Lightâ€Emitting Diodes. Advanced Functional Materials, 2018, 28, .	17.1	20

#	Article	IF	Citations
217	Highâ€Efficiency Fullerene Solar Cells Enabled by a Spontaneously Formed Mesostructured CuSCNâ€Nanowire Heterointerface. Advanced Science, 2018, 5, .	12.8	22
218	The Impact of Molecular pâ€Doping on Charge Transport in Highâ€Mobility Smallâ€Molecule/Polymer Blend Organic Transistors. Advanced Electronic Materials, 2018, 4, .	5.0	69
219	An Alkylated Indacenodithieno[3,2â€b]thiopheneâ€Based Nonfullerene Acceptor with High Crystallinity Exhibiting Single Junction Solar Cell Efficiencies Greater than 13% with Low Voltage Losses. Advanced Materials, 2018, 30, .	24.7	481
220	Charge Photogeneration and Recombination in Mesostructured CuSCNâ€Nanowire/PC₇₀BM Solar Cells. Solar Rrl, 2018, 2, .	4.7	11
221	Solutionâ€Processed In₂O₃/ZnO Heterojunction Electron Transport Layers for Efficient Organic Bulk Heterojunction and Inorganic Colloidal Quantumâ€Dot Solar Cells. Solar Rrl, 2018, 2, .	4.7	37
222	Accurate Extraction of Charge Carrier Mobility in 4â€Probe Fieldâ€Effect Transistors. Advanced Functional Materials, 2018, 28, .	17.1	43
223	Pronounced Side Chain Effects in Triple Bond-Conjugated Polymers Containing Naphthalene Diimides for n-Channel Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 12921-12929.	8.1	24
224	High Speed Ultraviolet Phototransistors Based on an Ambipolar Fullerene Derivative. ACS Applied Materials & Interfaces, 2018, 10, 10202-10210.	8.1	28
225	Remarkable Enhancement of the Hole Mobility in Several Organic Smallâ€Molecules, Polymers, and Smallâ€Molecule:Polymer Blend Transistors by Simple Admixing of the Lewis Acid pâ€Dopant B(C₆F₅)₃. Advanced Science, 2018, 5, .	12.8	145
226	Flexible nanogap polymer light-emitting diodes fabricated via adhesion lithography (a-Lith). JPhys Materials, 2018, 1, 01LT01.	3.8	9
227	Low Temperature and Radiation Stability of Flexible IGZO TFTs and their Suitability for Space Applications. , 2018, 48, 98-101.		0
228	Enabling thin-film transistor technologies and the device metrics that matter. Nature Communications, 2018, 9, .	14.1	63
229	Low-Voltage Solution-Processed Hybrid Light-Emitting Transistors. ACS Applied Materials & Interfaces, 2018, 10, 18445-18449.	8.1	22
230	Phase Inversion Strategy to Flexible Freestanding Electrode: Critical Coupling of Binders and Electrolytes for High Performance Liâ€“S Battery. Advanced Functional Materials, 2018, 28, .	17.1	70
231	Large-area plastic nanogap electronics enabled by adhesion lithography. Npj Flexible Electronics, 2018, 2, .	14.6	32
232	Lightâ€“Matter Interaction within Extreme Dimensions: From Nanomanufacturing to Applications. Advanced Optical Materials, 2018, 6, .	7.1	23
233	Electron mobility enhancement in solution-processed low-voltage In2O3 transistors via channel interface planarization. AIP Advances, 2018, 8, .	1.3	11
234	Recent Progress in Highâ€Mobility Organic Transistors: A Reality Check. Advanced Materials, 2018, 30, .	24.7	529

#	Article	IF	Citations
235	Post-polymerisation functionalisation of conjugated polymer backbones and its application in multi-functional emissive nanoparticles. Nature Communications, 2018, 9, .	14.1	51
236	pâ€Doping of Copper(I) Thiocyanate (CuSCN) Holeâ€Transport Layers for Highâ€Performance Transistors and Organic Solar Cells. Advanced Functional Materials, 2018, 28, .	17.1	59
237	The Influence of Backbone Fluorination on the Dielectric Constant of Conjugated Polythiophenes. Advanced Electronic Materials, 2018, 4, .	5.0	19
238	Electronic Properties of Copper(I) Thiocyanate (CuSCN). Advanced Electronic Materials, 2017, 3, .	5.0	73
239	Cyano substituted benzotriazole based polymers for use in organic solar cells. Journal of Materials Chemistry A, 2017, 5, 6465-6470.	9.3	29
240	Alternating 5,5-Dimethylcyclopentadiene and Diketopyrrolopyrrole Copolymer Prepared at Room Temperature for High Performance Organic Thin-Film Transistors. Journal of the American Chemical Society, 2017, 139, 8094-8097.	15.7	48
241	Alkylated Selenophene-Based Ladder-Type Monomers via a Facile Route for High-Performance Thin-Film Transistor Applications. Journal of the American Chemical Society, 2017, 139, 8552-8561.	15.7	108
242	Heterojunction oxide thin-film transistors with unprecedented electron mobility grown from solution. Science Advances, 2017, 3, .	11.3	166
243	Exploring the Leidenfrost Effect for the Deposition of Highâ€Quality In₂O₃ Layers via Spray Pyrolysis at Low Temperatures and Their Application in High Electron Mobility Transistors. Advanced Functional Materials, 2017, 27, .	17.1	48
244	Foreword. IEEE Transactions on Electron Devices, 2017, 64, 1878-1880.	3.3	0
245	Rapid laser-induced photochemical conversion of solâ€“gel precursors to In₂O₃ layers and their application in thin-film transistors. Journal of Materials Chemistry C, 2017, 5, 3673-3677.	5.1	35
246	Modulationâ€Doped In₂O₃/ZnO Heterojunction Transistors Processed from Solution. Advanced Materials, 2017, 29, .	24.7	105
247	Solution-processed p-type copper(I) thiocyanate (CuSCN) for low-voltage flexible thin-film transistors and integrated inverter circuits. Applied Physics Letters, 2017, 110, .	3.2	36
248	Semiconductor-Free Nonvolatile Resistive Switching Memory Devices Based on Metal Nanogaps Fabricated on Flexible Substrates via Adhesion Lithography. IEEE Transactions on Electron Devices, 2017, 64, 1973-1980.	3.3	19
249	The impact of post-deposition annealing on the performance of solution-processed single layer In₂O₃ and isotype In₂O₃/ZnO heterojunction transistors. Journal of Materials Chemistry C, 2017, 5, 59-64.	5.1	37
250	Sub-second photonic processing of solution-deposited single layer and heterojunction metal oxide thin-film transistors using a high-power xenon flash lamp. Journal of Materials Chemistry C, 2017, 5, 11724-11732.	5.1	38
251	Metalâ€Halide Perovskite Transistors for Printed Electronics: Challenges and Opportunities. Advanced Materials, 2017, 29, .	24.7	132
252	Effect of Alkyl Chain Branching Point on 3D Crystallinity in High Nâ€Type Mobility Indolonaphthyridine Polymers. Advanced Functional Materials, 2017, 27, .	17.1	18

#	Article	IF	Citations
253	Copper(I) Thiocyanate (CuSCN) Holeâ€Transport Layers Processed from Aqueous Precursor Solutions and Their Application in Thinâ€Film Transistors and Highly Efficient Organic and Organometal Halide Perovskite Solar Cells. Advanced Functional Materials, 2017, 27, .	17.1	224
254	Deep Ultraviolet Copper(I) Thiocyanate (CuSCN) Photodetectors Based on Coplanar Nanogap Electrodes Fabricated via Adhesion Lithography. ACS Applied Materials & Interfaces, 2017, 9, 41965-41972.	8.1	32
255	Charge Transport in 2D DNA Tunnel Junction Diodes. Small, 2017, 13, .	11.6	13
256	Flexible diodes for radio frequency (RF) electronics: a materials perspective. Semiconductor Science and Technology, 2017, 32, 123002.	2.3	72
257	Effect of Systematically Tuning Conjugated Donor Polymer Lowest Unoccupied Molecular Orbital Levels via Cyano Substitution on Organic Photovoltaic Device Performance. Chemistry of Materials, 2016, 28, 5110-5120.	6.9	121
258	Energy Quantization in Solutionâ€Processed Layers of Indium Oxide and Their Application in Resonant Tunneling Diodes. Advanced Functional Materials, 2016, 26, 1656-1663.	17.1	20
259	Alâ€Doped ZnO Transistors Processed from Solution at 120 Â°C. Advanced Electronic Materials, 2016, 2, .	5.0	42
260	An Airâ€Stable Semiconducting Polymer Containing Dithieno[3,2â€b:2â€²,3â€²â€d]arsole. Angewandte Chemie - International Edition, 2016, 55, 7148-7151.	15.0	56
261	Radio Frequency Coplanar ZnO Schottky Nanodiodes Processed from Solution on Plastic Substrates. Small, 2016, 12, 1993-2000.	11.6	47
262	Hybrid Lightâ€Emitting Transistors Based on Lowâ€Temperature Solutionâ€Processed Metal Oxides and a Chargeâ€Injecting Interlayer. Advanced Optical Materials, 2016, 4, 231-237.	7.1	26
263	Vertical Phase Separation in Small Molecule:Polymer Blend Organic Thin Film Transistors Can Be Dynamically Controlled. Advanced Functional Materials, 2016, 26, 1737-1746.	17.1	102
264	Hybrid Modulationâ€Doping of Solutionâ€Processed Ultrathin Layers of ZnO Using Molecular Dopants. Advanced Materials, 2016, 28, 3952-3959.	24.7	16
265	Metal oxide semiconductor thin-film transistors for flexible electronics. Applied Physics Reviews, 2016, 3, 021303.	10.7	562
266	Hybrid complementary circuits based on p-channel organic and n-channel metal oxide transistors with balanced carrier mobilities of up to 10â€‰cm2/Vs. Applied Physics Letters, 2016, 109, .	3.2	23
267	Nanoscale current spreading analysis in solution-processed graphene oxide/silver nanowire transparent electrodes via conductive atomic force microscopy. Journal of Applied Physics, 2016, 119, .	2.3	13
268	Temperature and composition-dependent density of states in organic small-molecule/polymer blend transistors. Journal of Applied Physics, 2016, 120, .	2.3	22
269	A Novel Alkylated Indacenodithieno[3,2â€b]thiopheneâ€Based Polymer for Highâ€Performance Fieldâ€Effect Transistors. Advanced Materials, 2016, 28, 3922-3927.	24.7	127
270	Design, synthesis, chemical stability, packing, cyclic voltammetry, ionisation potential, and charge transport of [1]benzothieno[3,2-b][1]benzothiophene derivatives. Journal of Materials Chemistry C, 2016, 4, 4863-4879.	5.1	38

#	Article	IF	Citations
271	Air-Stable n-channel Diketopyrrolopyrroleâ^'Diketopyrrolopyrrole Oligomers for High Performance Ambipolar Organic Transistors. ACS Applied Materials & Interfaces, 2016, 8, 25415-25427.	8.1	38
272	Doping of Large Ionization Potential Indenopyrazine Polymers via Lewis Acid Complexation with Tris(pentafluorophenyl)borane: A Simple Method for Improving the Performance of Organic Thin-Film Transistors. Chemistry of Materials, 2016, 28, 8016-8024.	6.9	59
273	Nanoscale Charge Percolation Analysis in Polymerâ€Sorted (7,5) Singleâ€Walled Carbon Nanotube Networks. Small, 2016, 12, 4211-4221.	11.6	17
274	Significant Stability Enhancement in Highâ€Efficiency Polymer:Fullerene Bulk Heterojunction Solar Cells by Blocking Ultraviolet Photons from Solar Light. Advanced Science, 2016, 3, .	12.8	63
275	Nondestructive Method for Mapping Metal Contact Diffusion in In₂O₃ Thin-Film Transistors. ACS Applied Materials & Interfaces, 2016, 8, 25631-25636.	8.1	10
276	Analysis of Schottky Contact Formation in Coplanar Au/ZnO/Al Nanogap Radio Frequency Diodes Processed from Solution at Low Temperature. ACS Applied Materials & Interfaces, 2016, 8, 23167-23174.	8.1	46
277	Conjugated Copolymers of Vinylene Flanked Naphthalene Diimide. Macromolecules, 2016, 49, 6384-6393.	5.2	50
278	Small Molecule/Polymer Blend Organic Transistors with Hole Mobility Exceeding 13 cm² V^{â^'1} s^{â^'1}. Advanced Materials, 2016, 28, 7791-7798.	24.7	177
279	Ambipolar Organic Phototransistors with pâ€Type/nâ€Type Conjugated Polymer Bulk Heterojunction Lightâ€Sensing Layers. Advanced Electronic Materials, 2016, 2, .	5.0	46
280	Vinylene-Linked Oligothiopheneâ€“Difluorobenzothiadiazole Copolymer for Transistor Applications. ACS Applied Materials & Interfaces, 2016, 8, 31154-31165.	8.1	17
281	Indolo-naphthyridine-6,13-dione Thiophene Building Block for Conjugated Polymer Electronics: Molecular Origin of Ultrahigh n-Type Mobility. Chemistry of Materials, 2016, 28, 8366-8378.	6.9	54
282	>10% Efficiency Polymer:Fullerene Solar Cells with Polyacetyleneâ€Based Polyelectrolyte Interlayers. Advanced Materials Interfaces, 2016, 3, .	4.2	35
283	Room temperature dielectric bistability in solution-processed spin crossover polymer thin films. Journal of Materials Chemistry C, 2016, 4, 6240-6248.	5.1	17
284	An Airâ€Stable Semiconducting Polymer Containing Dithieno[3,2â€²b:2â€²,3â€²â€²d]arsole. Angewandte Chemie, 2016, 128, 7264-7267.	1.5	15
285	Strong molecular weight effects of gate-insulating memory polymers in low-voltage organic nonvolatile memory transistors with outstanding retention characteristics. NPG Asia Materials, 2016, 8, e235-e235.	7.8	23
286	Quasi Two-Dimensional Dye-Sensitized In₂O₃ Phototransistors for Ultrahigh Responsivity and Photosensitivity Photodetector Applications. ACS Applied Materials & Interfaces, 2016, 8, 4894-4902.	8.1	68
287	Exploring and controlling intrinsic defect formation in SnO₂ thin films. Journal of Materials Chemistry C, 2016, 4, 758-765.	5.1	38
288	Influence of the heteroatom on the optoelectronic properties and transistor performance of soluble thiophene-, selenophene- and telluropheneâ€“vinylene copolymers. Chemical Science, 2016, 7, 1093-1099.	7.5	82

#	Article	IF	Citations
289	Using Molecular Design to Increase Hole Transport: Backbone Fluorination in the Benchmark Material		

#	Article	IF	Citations
307	Low-voltage polymer/small-molecule blend organic thin-film transistors and circuits fabricated via spray deposition. Applied Physics Letters, 2015, 106, .	3.2	34
308	Preface: Printed electronics. Semiconductor Science and Technology, 2015, 30, 100301.	2.3	1
309	High Electron Mobility Thinâ€Film Transistors Based on Solutionâ€Processed Semiconducting Metal Oxide Heterojunctions and Quasiâ€Superlattices. Advanced Science, 2015, 2, .	12.8	145
310	Novel soluble thieno[3,2-b]thiophene fused porphyrazine. RSC Advances, 2015, 5, 90645-90650.	4.5	3
311	Fused Ring Cyclopentadithienothiophenes as Novel Building Blocks for High Field Effect Mobility Conjugated Polymers. Macromolecules, 2015, 48, 5605-5613.	5.2	11
312	Copper thiocyanate: An attractive hole transport/extraction layer for use in organic photovoltaic cells. Applied Physics Letters, 2015, 107, .	3.2	54
313	Diselenogermole as a novel donor monomer for low band gap polymers. Journal of Materials Chemistry A, 2015, 3, 1986-1994.	9.3	17
314	Indium Oxide Thin-Film Transistors Processed at Low Temperature via Ultrasonic Spray Pyrolysis. ACS Applied Materials & Interfaces, 2015, 7, 782-790.	8.1	81
315	Highâ€Efficiency, Solutionâ€Processed, Multilayer Phosphorescent Organic Lightâ€Emitting Diodes with a Copper Thiocyanate Holeâ€Injection/Holeâ€Transport Layer. Advanced Materials, 2015, 27, 93-100.	24.7	187
316	Cyano substituted benzothiadiazole: a novel acceptor inducing n-type behaviour in conjugated polymers. Journal of Materials Chemistry C, 2015, 3, 265-275.	5.1	93
317	Highâ€Efficiency Organic Photovoltaic Cells Based on the Solutionâ€Processable Hole Transporting Interlayer Copper Thiocyanate (CuSCN) as a Replacement for PEDOT:PSS. Advanced Energy Materials, 2015, 5, .	22.7	144
318	Selenium in Diketopyrrolopyrroleâ€based Polymers: Influence on Electronic Properties and Charge Carrier Mobilities. Israel Journal of Chemistry, 2014, 54, 817-827.	2.2	6
319	Influence of the Electron Deficient Coâ€Monomer on the Optoelectronic Properties and Photovoltaic Performance of Dithienogermoleâ€based Coâ€Polymers. Advanced Functional Materials, 2014, 24, 678-687.	17.1	56
320	High electron mobility thin-film transistors based on Ga2O3 grown by atmospheric ultrasonic spray pyrolysis at low temperatures. Applied Physics Letters, 2014, 105, .	3.2	64
321	Comparative Study of the Nâ€Type Doping Efficiency in Solutionâ€processed Fullerenes and Fullerene Derivatives. Advanced Functional Materials, 2014, 24, 7116-7124.	17.1	76
322	Sub-15-nm patterning of asymmetric metal electrodes and devices by adhesion lithography. Nature Communications, 2014, 5, .	14.1	82
323	Laser-Assisted Reduction of Graphene Oxide for Flexible, Large-Area Optoelectronics. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 106-115.	4.1	60
324	Triple bulk heterojunctions as means for recovering the microstructure of photoactive layers in organic solar cell devices. Solar Energy Materials and Solar Cells, 2014, 120, 37-47.	6.2	13

#	Article	IF	Citations
325	Benzotrithiophene Copolymers: Influence of Molecular Packing and Energy Levels on Charge Carrier Mobility. Macromolecules, 2014, 47, 2883-2890.	5.2	27
326	Incorporation of benzocarborane into conjugated polymer systems: synthesis, characterisation and optoelectronic properties. Journal of Materials Chemistry C, 2014, 2, 232-239.	5.1	23
327	Benzocarborano[2,1-b:3,4-bâ€²]dithiophene Containing Conjugated Polymers: Synthesis, Characterization, and Optoelectronic Properties. Macromolecules, 2014, 47, 89-96.	5.2	22
328	The role of the ethynylene bond on the optical and electronic properties of diketopyrrolopyrrole copolymers. RSC Advances, 2014, 4, 58404-58411.	4.5	4
329	Correlating Non-Geminate Recombination with Film Structure: A Comparison of Polythiophene: Fullerene Bilayer and Blend Films. Journal of Physical Chemistry Letters, 2014, 5, 3669-3676.	4.6	9
330	High-speed scanning thermal lithography for nanostructuring of electronic devices. Nanoscale, 2014, 6, 5813-5819.	5.1	5
331	Polythiophenes with vinylene linked ortho, meta and para-carborane sidechains. Polymer Chemistry, 2014, 5, 6190-6199.	3.9	22
332	Influence of Side-Chain Regiochemistry on the Transistor Performance of High-Mobility, All-Donor Polymers. Journal of the American Chemical Society, 2014, 136, 15154-15157.	15.7	99
333	Use of side-chain for rational design of n-type diketopyrrolopyrrole-based conjugated polymers: what did we find out?. Physical Chemistry Chemical Physics, 2014, 16, 17253-17265.	2.8	53
334	Microstructural Control of Charge Transport in Organic Blend Thinâ€Film Transistors. Advanced Functional Materials, 2014, 24, 5969-5976.	17.1	60
335	Controlling Conformations of Diketopyrrolopyrrole-Based Conjugated Polymers: Role of Torsional Angle. Journal of Physical Chemistry C, 2014, 118, 11536-11544.	3.2	30
336	Alkyl Chain Extension as a Route to Novel Thieno[3,2-b]thiophene Flanked Diketopyrrolopyrrole Polymers for Use in Organic Solar Cells and Field Effect Transistors. Macromolecules, 2013, 46, 5961-5967.	5.2	68
337	Observation of Unusual, Highly Conductive Grain Boundaries in Highâ€Mobility Phase Separated Organic Semiconducting Blend Films Probed by Lateralâ€Transport Conductiveâ€AFM. Advanced Materials, 2013, 25, 4320-4326.	24.7	53
338	Molecular origin of high field-effect mobility in an indacenodithiopheneâ€“benzothiadiazole copolymer. Nature Communications, 2013, 4, .	14.1	488
339	Near Infrared Absorbing Soluble Poly(cyclopenta[2,1-b:3,4-bâ€²]dithiophen-4-one)vinylene Polymers Exhibiting High Hole and Electron Mobilities in Ambient Air. Chemistry of Materials, 2013, 25, 59-68.	6.9	35
340	New Fused Bis-Thienobenzothienothiophene Copolymers and Their Use in Organic Solar Cells and Transistors. Macromolecules, 2013, 46, 727-735.	5.2	44
341	p-channel thin-film transistors based on spray-coated Cu2O films. Applied Physics Letters, 2013, 102, .	3.2	101
342	Low band gap dithienogermolodithiophene copolymers with tunable acceptors and side-chains for organic solar cells. Journal of Materials Chemistry A, 2013, 1, 14973.	9.3	28

#	Article	IF	Citations
343	Isostructural, Deeper Highest Occupied Molecular Orbital Analogues of Poly(3-hexylthiophene) for High-Open Circuit Voltage Organic Solar Cells. Chemistry of Materials, 2013, 25, 4239-4249.	6.9	57
344	Highâ€Performance ZnO Transistors Processed Via an Aqueous Carbonâ€Free Metal Oxide Precursor Route at Temperatures Between 80â€“180 Â°C. Advanced Materials, 2013, 25, 4340-4346.	24.7	156
345	Graphene oxide gate dielectric for graphene-based monolithic field effect transistors. Applied Physics Letters, 2013, 102, .	3.2	43
346	Post-Polymerization Ketalization for Improved Organic Photovoltaic Materials. Macromolecules, 2013, 46, 7727-7732.	5.2	16
347	Holeâ€Transporting Transistors and Circuits Based on the Transparent Inorganic Semiconductor Copper(I) Thiocyanate (CuSCN) Processed from Solution at Room Temperature. Advanced Materials, 2013, 25, 1504-1509.	24.7	199
348	Synthesis of tetraselenophenoporphyrazine and its application in transistor devices. Journal of Materials Chemistry C, 2013, 1, 6198.	5.1	9
349	Fused Dithienogermolodithiophene Low Band Gap Polymers for High-Performance Organic Solar Cells without Processing Additives. Journal of the American Chemical Society, 2013, 135, 2040-2043.	15.7	140
350	BPTs: thiophene-flanked benzodipyrrolidone conjugated polymers for ambipolar organic transistors. Chemical Communications, 2013, 49, 4465.	4.2	66
351	Dihydropyrroloindoledione-based copolymers for organic electronics. Journal of Materials Chemistry C, 2013, 1, 2711.	5.1	19
352	High Mobility Fieldâ€Effect Transistors with Versatile Processing from a Smallâ€Molecule Organic Semiconductor. Advanced Materials, 2013, 25, 4352-4357.	24.7	128
353	Solution-processable metal oxide semiconductors for thin-film transistor applications. Chemical Society Reviews, 2013, 42, 6910.	38.2	262
354	Pyrroloindacenodithiophene polymers: the effect of molecular structure on OFET performance. Polymer Chemistry, 2013, 4, 3537.	3.9	23
355	The Influence of Polymer Purification on Photovoltaic Device Performance of a Series of Indacenodithiophene Donor Polymers. Advanced Materials, 2013, 25, 2029-2034.	24.7	129
356	Electric field-induced hole transport in copper(i) thiocyanate (CuSCN) thin-films processed from solution at room temperature. Chemical Communications, 2013, 49, 4154-4156.	4.2	173
357	Be-Doped ZnO Thin-Film Transistors and Circuits Fabricated by Spray Pyrolysis in Air. Journal of Display Technology, 2013, 9, 688-693.	1.6	7
358	Improved Field-Effect Transistor Performance of a Benzotrithiophene Polymer through Ketal Cleavage in the Solid State. ACS Applied Materials & Interfaces, 2013, 5, 1806-1810.	8.1	23
359	Solution-processed ZnO nanoparticle-based transistors via a room-temperature photochemical conversion process. Applied Physics Letters, 2013, 102, .	3.2	37
360	Selected Peer-Reviewed Articles from EMRS 2012 Symposium on â€œOrganic and Hybrid Materials for Flexible Electronics: Properties and Applicationsâ€. Journal of Nanoscience and Nanotechnology, 2013, 13, 5134-5135.	0.6	1

#	Article	IF	Citations
361	Organic and Hybrid Materials for Flexible Electronics. Advanced Materials, 2013, 25, 4208-4209.	24.7	30
362	Onâ€Demand Patterning of Nanostructured Pentacene Transistors by Scanning Thermal Lithography. Advanced Materials, 2013, 25, 552-558.	24.7	13
363	Solution-processed dye-sensitized ZnO phototransistors with extremely high photoresponsivity. Journal of Applied Physics, 2012, 112, .	2.3	35
364	Low-voltage graphene transistors based on self-assembled monolayer nanodielectrics. Materials Research Society Symposia Proceedings, 2012, 1451, 179-184.	0.1	0
365	Thiophene fluorination to enhance photovoltaic performance in low band gap donorâ€“acceptor polymers. Chemical Communications, 2012, 48, 11130.	4.2	64
366	Designing organic and inorganic ambipolar thin-film transistors and inverters: Theory and experiment. Organic Electronics, 2012, 13, 2816-2824.	2.6	36
367	Germaindacenodithiophene based low band gap polymers for organic solar cells. Chemical Communications, 2012, 48, 2955.	4.2	47
368	Random benzotrithiophene-based donorâ€“acceptor copolymers for efficient organic photovoltaic devices. Chemical Communications, 2012, 48, 5832.	4.2	110
369	Solution-processable organic dielectrics for graphene electronics. Nanotechnology, 2012, 23, 344017.	2.7	34
370	Low band gap selenopheneâ€“diketopyrrolopyrrolepolymers exhibiting high and balanced ambipolar performance in bottom-gate transistors. Chemical Science, 2012, 3, 181-185.	7.5	167
371	Organic Semiconductor Materials for Transistors. , 2012, , 1-26.		9
372	Electronic structure tuning of new fused thieno[3,2-b]thieno bisthiophene based polymers via alkyl chain and Group IV heteroatom modulation. Proceedings of SPIE, 2012, , .	0.0	0
373	Fullerene/Cobalt Porphyrin Hybrid Nanosheets with Ambipolar Charge Transporting Characteristics. Journal of the American Chemical Society, 2012, 134, 7204-7206.	15.7	127
374	Synthesis of novel thieno[3,2-b]thienobis(silolothiophene) based low bandgap polymers for organic photovoltaics. Chemical Communications, 2012, 48, 7699.	4.2	59
375	Diketopyrrolopyrroleâ€“Diketopyrrolopyrrole-Based Conjugated Copolymer for High-Mobility Organic Field-Effect Transistors. Journal of the American Chemical Society, 2012, 134, 16532-16535.	15.7	349
376	Acenaphtho[1,2-b]quinoxaline based low band gap copolymers for organic thin film transistor applications. Journal of Materials Chemistry, 2012, 22, 4450-4458.	8.1	16
377	Comparative Optoelectronic Study between Copolymers of Peripherally Alkylated Dithienosilole and Dithienogermole. Macromolecules, 2012, 45, 735-742.	5.2	41
378	Solution-processed small molecule transistors with low operating voltages and high grain-boundary anisotropy. Journal of Materials Chemistry, 2012, 22, 9458.	8.1	20

#	Article	IF	Citations
379	Silaindacenodithiopheneâ€Based Low Band Gap Polymers â€“ The Effect of Fluorine Substitution on Device Performances and Film Morphologies. Advanced Functional Materials, 2012, 22, 1663-1670.	17.1	178
380	Solutionâ€Processed Small Moleculeâ€Polymer Blend Organic Thinâ€Film Transistors with Hole Mobility Greater than 5 cm²/Vs. Advanced Materials, 2012, 24, 2441-2446.	24.7	218
381	Airâ€Stable and Highâ€Mobility nâ€Channel Organic Transistors Based on Smallâ€Molecule/Polymer Semiconducting Blends. Advanced Materials, 2012, 24, 3205-3211.	24.7	123
382	Highâ€Performance Ambipolar Diketopyrrolopyrroleâ€Thieno[3,2â€b]thiophene Copolymer Fieldâ€Effect Transistors with Balanced Hole and Electron Mobilities. Advanced Materials, 2012, 24, 647-652.	24.7	528
383	Semiconducting Organic Molecule/Polymer Composites for Thinâ€Film Transistors. , 2012, , 219-249.		0
384	Solution Processed Self-Assembled Monolayer Gate Dielectrics for Low-Voltage Organic Transistors. Materials Research Society Symposia Proceedings, 2011, 1114, .	0.1	0
385	Indole-substituted nickel dithiolene complexes in electronic and optoelectronic devices. Journal of Materials Chemistry, 2011, 21, 15422.	8.1	28
386	Low-voltage ZnO thin-film transistors based on Y2O3 and Al2O3 high-k dielectrics deposited by spray pyrolysis in air. Applied Physics Letters, 2011, 98, .	3.2	123
387	Synthesis, Characterization, and Field Effect Transistor Properties of Regioregular Poly(3-alkyl-2,5-selenylenevinylene). Macromolecules, 2011, 44, 5194-5199.	5.2	46
388	Analysis of Recombination Losses in a Pentacene/C₆₀ Organic Bilayer Solar Cell. Journal of Physical Chemistry Letters, 2011, 2, 2759-2763.	4.6	47
389	Indacenodithiophene-co-benzothiadiazole Copolymers for High Performance Solar Cells or Transistors via Alkyl Chain Optimization. Macromolecules, 2011, 44, 6649-6652.	5.2	174
390	Benzotrithiophene Co-polymers with High Charge Carrier Mobilities in Field-Effect Transistors. Chemistry of Materials, 2011, 23, 4025-4031.	6.9	57
391	Self-assembly and charge transport properties of a benzobisthiazole end-capped with dihexyl thienothiophene units. Journal of Materials Chemistry, 2011, 21, 2091-2097.	8.1	27
392	Pyrroloindacenodithiophene containing polymers for organic field effect transistors and organic photovoltaics. Journal of Materials Chemistry, 2011, 21, 18744.	8.1	48
393	Silaindacenodithiophene Semiconducting Polymers for Efficient Solar Cells and High-Mobility Ambipolar Transistors. Chemistry of Materials, 2011, 23, 768-770.	6.9	116
394	Molecular Packing of High-Mobility Diketo Pyrrolo-Pyrrole Polymer Semiconductors with Branched Alkyl Side Chains. Journal of the American Chemical Society, 2011, 133, 15073-15084.	15.7	379
395	Bias-stress effects in organic field-effect transistors based on self-assembled monolayer nanodielectrics. Physical Chemistry Chemical Physics, 2011, 13, 14387.	2.8	22
396	The tuning of the energy levels of dibenzosilole copolymers and applications in organic electronics. Journal of Materials Chemistry, 2011, 21, 11800.	8.1	40

#	Article	IF	Citations
397	Partially oxidized graphene as a precursor to graphene. Journal of Materials Chemistry, 2011, 21, 11217.	8.1	71
398	Soluble fullerene derivatives: The effect of electronic structure on transistor performance and air stability. Journal of Applied Physics, 2011, 110, .	2.3	18
399	Influence of molecular architecture and processing on properties of semiconducting arylacetylene: Insulating poly(vinylidene fluoride) blends. Organic Electronics, 2011, 12, 1886-1892.	2.6	23
400	A low band gap co-polymer of dithienogermole and 2,1,3-benzothiadiazole by Suzuki polycondensation and its application in transistor and photovoltaic cells. Journal of Materials Chemistry, 2011, 21, 16257.	8.1	86
401	Thieno[3,2-b]thiopheneâ"Diketopyrrolopyrrole-Containing Polymers for High-Performance Organic Field-Effect Transistors and Organic Photovoltaic Devices. Journal of the American Chemical Society, 2011, 133, 3272-3275.	15.7	846
402	Effect of multiple adduct fullerenes on charge generation and transport in photovoltaic blends with poly(3â€hexylthiopheneâ€2,5â€diyl). Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 45-51.	2.8	56
403	Synthesis of a Novel Fused Thiopheneâ€thieno[3,2â€b]thiopheneâ€thiophene Donor Monomer and Coâ€polymer for Use in OPV and OFETs. Macromolecular Rapid Communications, 2011, 32, 1664-1668.	4.2	42
404	Structural and Electrical Characterization of ZnO Films Grown by Spray Pyrolysis and Their Application in Thinâ€Film Transistors. Advanced Functional Materials, 2011, 21, 525-531.	17.1	101
405	In-Situ Monitoring of the Solid-State Microstructure Evolution of Polymer:Fullerene Blend Films Using Field-Effect Transistors. Advanced Functional Materials, 2011, 21, 356-363.	17.1	35
406	Realâ€Time Investigation of Crystallization and Phaseâ€Segregation Dynamics in P3HT:PCBM Solar Cells During Thermal Annealing. Advanced Functional Materials, 2011, 21, 1701-1708.	17.1	202
407	Highâ€Mobility Lowâ€Voltage ZnO and Liâ€Doped ZnO Transistors Based on ZrO₂ Highâ€k Dielectric Grown by Spray Pyrolysis in Ambient Air. Advanced Materials, 2011, 23, 1894-1898.	24.7	216
408	Reduced Graphene Oxide Electrodes for Large Area Organic Electronics. Advanced Materials, 2011, 23, 1558-1562.	24.7	90
409	Effect of Acene Length on Electronic Properties in 5â€, 6â€, and 7â€Ringed Heteroacenes. Advanced Materials, 2011, 23, 3698-3703.	24.7	63
410	Impact of Fullerene Molecular Weight on P3HT:PCBM Microstructure Studied Using Organic Thinâ€Film Transistors. Advanced Energy Materials, 2011, 1, 1176-1183.	22.7	15
411	Percolation behaviour in high mobility p-channel polymer/small-molecule blend organic field-effect transistors. Organic Electronics, 2011, 12, 143-147.	2.6	45
412	Measurement of the diffusivity of fullerenes in polymers using bilayer organic field effect transistors. Physical Review B, 2011, 84, .	3.2	17
413	Semiconducting Arylacetylene:Insulating Polymer Blends for Organic-Based Electronic Devices. Materials Research Society Symposia Proceedings, 2011, 1402, .	0.1	0
414	Indacenodithiophene Semiconducting Polymers for High-Performance, Air-Stable Transistors. Journal of the American Chemical Society, 2010, 132, 11437-11439.	15.7	546

#	Article	IF	Citations
415	The Influence of Film Morphology in Highâ€Mobility Smallâ€Molecule:Polymer Blend Organic Transistors. Advanced Functional Materials, 2010, 20, 2330-2337.	17.1	122
416	Organic Transistors in Optical Displays and Microelectronic Applications. Advanced Materials, 2010, 22, 3778-3798.	24.7	574
417	Solidâ€State Processing of Organic Semiconductors. Advanced Materials, 2010, 22, 3942-3947.	24.7	45
418	Airâ€Stable Solutionâ€Processed Hybrid Transistors with Hole and Electron Mobilities Exceeding 2 cm² V^{â^'1} s^{â^'1}. Advanced Materials, 2010, 22, 3598-3602.	24.7	57
419	Sprayâ€Deposited Liâ€Doped ZnO Transistors with Electron Mobility Exceeding 50 cm²/Vs. Advanced Materials, 2010, 22, 4764-4769.	24.7	102
420	Micron-scale patterning of high conductivity poly(3,4-ethylendioxythiophene):poly(styrenesulfonate) for organic field-effect transistors. Organic Electronics, 2010, 11, 1307-1312.	2.6	30
421	TiO 2 thin-film transistors fabricated by spray pyrolysis. Applied Physics Letters, 2010, 96, .	3.2	52
422	Synthesis and Characterization of Fused Pyrrolo[3,2-d:4,5-dâ€²]bisthiazole-Containing Polymers. Organic Letters, 2010, 12, 5478-5481.	5.1	40
423	Synthesis and characterization of pyrene-centered oligothiophenes. Synthetic Metals, 2010, 160, 1987-1993.	4.6	17
424	Synthesis and characterisation of new diindenodithienothiophene (DITT) based materials. Journal of Materials Chemistry, 2010, 20, 1112-1116.	8.1	14
425	Solution-processed organic transistors based on semiconducting blends. Journal of Materials Chemistry, 2010, 20, 2562.	8.1	199
426	Ink-jet printed p-type polymer electronics based on liquid-crystalline polymer semiconductors. Journal of Materials Chemistry, 2010, 20, 1927.	8.1	41
427	Ambipolar organic transistors and near-infrared phototransistors based on a solution-processable squarilium dye. Journal of Materials Chemistry, 2010, 20, 3673.	8.1	76
428	Solution processed low-voltage organic transistors and complementary inverters. Applied Physics Letters, 2009, 95, .	3.2	30
429	Highâ€Performance Polymerâ€Small Molecule Blend Organic Transistors. Advanced Materials, 2009, 21, 1166-1171.	24.7	345
430	Highâ€Performance Zinc Oxide Transistors and Circuits Fabricated by Spray Pyrolysis in Ambient Atmosphere. Advanced Materials, 2009, 21, 2226-2231.	24.7	195
431	Systematic Improvement in Charge Carrier Mobility of Air Stable Triarylamine Copolymers. Journal of the American Chemical Society, 2009, 131, 10814-10815.	15.7	189
432	Electronic properties of ZnO field-effect transistors fabricated by spray pyrolysis in ambient air. Applied Physics Letters, 2009, 95, 133507.	3.2	65

#	Article	IF	Citations
433	High mobility p-channel organic field effect transistors on flexible substrates using a polymer-small molecule blend. Synthetic Metals, 2009, 159, 2365-2367.	4.6	64
434	Complementary circuits based on solution processed low-voltage organic field-effect transistors. Synthetic Metals, 2009, 159, 2368-2370.	4.6	13
435	Solution processed low-voltage organic transistors based on self-assembled monolayer gate dielectrics. Proceedings of SPIE, 2009, , .	0.0	0
436	Development of Polymer Semiconductors for Field-Effect Transistor Devices in Displays. , 2009, , 393-429.		3
437	Morphology evolution via self-organization and lateral and vertical diffusion in polymer:fullerene solar cell blends. Nature Materials, 2008, 7, 158-164.	20.9	1,364
438	High mobility n-channel organic field-effect transistors based on soluble C60 and C70 fullerene derivatives. Synthetic Metals, 2008, 158, 468-472.	4.6	141
439	Low-voltage organic transistors based on solution processed semiconductors and self-assembled monolayer gate dielectrics. Applied Physics Letters, 2008, 93, .	3.2	109
440	Light-sensing ambipolar organic transistors for optoelectronic applications. Proceedings of SPIE, 2008, , .	0.0	1
441	High-performance organic integrated circuits based on solution processable polymer-small molecule blends. Applied Physics Letters, 2008, 93, .	3.2	70
442	Fluorine containing C60 derivatives for high-performance electron transporting field-effect transistors and integrated circuits. Applied Physics Letters, 2008, 92, 143310.	3.2	22
443	Electro-optical circuits based on light-sensing ambipolar organic field-effect transistors. Applied Physics Letters, 2007, 91, 113513.	3.2	78
444	Air-stable ambipolar organic transistors. Applied Physics Letters, 2007, 90, 122105.	3.2	189
445	Ambipolar charge transport in organic field-effect transistors. Physical Review B, 2006, 73, .	3.2	160
446	High performance n-channel organic field-effect transistors and ring oscillators based on C60 fullerene films. Applied Physics Letters, 2006, 89, 213504.	3.2	228
447	Solution processible organic transistors and circuits based on a C70 methanofullerene. Journal of Applied Physics, 2005, 98, 054503.	2.3	96
448	Simple color tuning of phosphorescent dendrimer light emitting diodes. Applied Physics Letters, 2005, 86, 161104.	3.2	27
449	Integrated Complementary-Like Circuits Based on Organic Ambipolar Transistors. Materials Research Society Symposia Proceedings, 2005, 871, .	0.1	7
450	Organic complementary-like inverters employing methanofullerene-based ambipolar field-effect transistors. Applied Physics Letters, 2004, 85, 4205-4207.	3.2	175

#	Article	IF	Citations
451	Tuning of emission color for blue dendrimer blend light-emitting diodes. Applied Physics Letters, 2004, 85, 1463-1465.	3.2	53
452	Low frequency capacitance characterization of Î±-phase nickel phthalocyanine/lead interfaces: effects of temperature and oxygen doping. Journal of Physics and Chemistry of Solids, 2004, 65, 1345-1348.	4.7	13
453	Conjugated dendrimers: a modular approach to materials for full-color displays. , 2004, , .		0
454	Influence of molecular structure on the properties of dendrimer light-emitting diodes. Organic Electronics, 2003, 4, 71-76.	2.6	47
455	Alternating current conduction properties of thermally evaporated Î±-nickel phthalocyanine thin films: Effects of oxygen doping and thermal annealing. Journal of Applied Physics, 2003, 94, 2426-2433.	2.3	20
456	Highly efficient single-layer dendrimer light-emitting diodes with balanced charge transport. Applied Physics Letters, 2003, 82, 4824-4826.	3.2	123
457	Oxygen induced p-doping of Î±-nickel phthalocyanine vacuum sublimed films: Implication for its use in organic photovoltaics. Applied Physics Letters, 2003, 82, 1628-1630.	3.2	47
458	Nondispersive hole transport in a spin-coated dendrimer film measured by the charge-generation-layer time-of-flight method. Applied Physics Letters, 2002, 81, 3266-3268.	3.2	31
459	Ultrafast Energy Transfer Triggers Ionization Energy Offset Dependence of Quantum Efficiency in Low-bandgap Non-fullerene Acceptor Solar Cells. , 0, , .		0