Thomas D Anthopoulos

List of Publications by Year
in descending order

436	31,817	3874 91	7427 157
papers	citations	h-index	g-index

449	449	449	25544
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Planar refractive index patterning through microcontact photo-thermal annealing of a printable organic/inorganic hybrid material. Materials Horizons, 2022, 9, 411-416.	6.4	4
2	Emissive Chargeâ€Transfer States at Hybrid Inorganic/Organic Heterojunctions Enable Low Nonâ€Radiative Recombination and Highâ€Performance Photodetectors. Advanced Materials, 2022, 34, e2104654.	11.1	13
3	Oligoethylene Glycol Side Chains Increase Charge Generation in Organic Semiconductor Nanoparticles for Enhanced Photocatalytic Hydrogen Evolution. Advanced Materials, 2022, 34, e2105007.	11.1	33
4	A Lowâ€Power CuSCN Hydrogen Sensor Operating Reversibly at Room Temperature. Advanced Functional Materials, 2022, 32, 2102635.	7.8	8
5	A Triâ€Channel Oxide Transistor Concept for the Rapid Detection of Biomolecules Including the SARSâ€CoVâ€2 Spike Protein. Advanced Materials, 2022, 34, e2104608.	11.1	19
6	Over 18% ternary polymer solar cells enabled by a terpolymer as the third component. Nano Energy, 2022, 92, 106681.	8.2	97
7	Doping Approaches for Organic Semiconductors. Chemical Reviews, 2022, 122, 4420-4492.	23.0	153
8	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, e2104977.	5.6	16
9	N-type polymer semiconductors incorporating para, meta, and ortho-carborane in the conjugated backbone. Polymer, 2022, 240, 124481.	1.8	6
10	14ÂGHz Schottky Diodes Using a pâ€Doped Organic Polymer. Advanced Materials, 2022, 34, e2108524.	11.1	9
11	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.	2.7	10
12	A Universal Cosolvent Evaporation Strategy Enables Direct Printing of Perovskite Single Crystals for Optoelectronic Device Applications. Advanced Materials, 2022, 34, e2109862.	11.1	18
13	Bismuth-based mixed-anion compounds for anode materials in rechargeable batteries. Chemical Communications, 2022, 58, 3354-3357.	2.2	12
14	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.	7.3	28
15	Infrared Organic Photodetectors Employing Ultralow Bandgap Polymer and Nonâ€Fullerene Acceptors for Biometric Monitoring. Small, 2022, 18, e2200580.	5.2	39
16	Generation of long-lived charges in organic semiconductor heterojunction nanoparticles for efficient photocatalytic hydrogen evolution. Nature Energy, 2022, 7, 340-351.	19.8	164
17	Efficient Piezoelectric Energy Harvesting from a Discrete Hybrid Bismuth Bromide Ferroelectric Templated by Phosphonium Cation. Chemistry - A European Journal, 2022, , .	1.7	6
18	Damp heatâ€“stable perovskite solar cells with tailored-dimensionality 2D/3D heterojunctions. Science, 2022, 376, 73-77.	6.0	366

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19	Low-energy consumption CuSCN-based ultra-low-ppb level ozone sensor, operating at room temperature. Sensors and Actuators A: Physical, 2022, 338, 113462.	2.0	1
20	Near-IR Absorbing Molecular Semiconductors Incorporating Cyanated Benzothiadiazole Acceptors for High-Performance Semitransparent n-Type Organic Field-Effect Transistors. , 2022, 4, 165-174.		12
21	Chlorine-Infused Wide-Band Gap p-CuSCN/n-GaN Heterojunction Ultraviolet-Light Photodetectors. ACS Applied Materials & Interfaces, 2022, 14, 17889-17898.	4.0	8
22	Charge transport and recombination in wide-bandgap Y6 derivatives-based organic solar cells. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2022, 13, 025001.	0.7	1
23	Radiofrequency Schottky Diodes Based on p-Doped Copper(I) Thiocyanate (CuSCN). ACS Applied Materials & Interfaces, 2022, 14, 29993-29999.	4.0	3
24	Rapid and up-scalable manufacturing of gigahertz nanogap diodes. Nature Communications, 2022, 13, .	5.8	11
25	Two-dimensional ferroelectricity and antiferroelectricity for next-generation computing paradigms. Matter, 2022, 5, 1999-2014.	5.0	3
26	The Energy Level Conundrum of Organic Semiconductors in Solar Cells. Advanced Materials, 2022, 34, .	11.1	72
27	Photophysics of Defect-Passivated Quasi-2D (PEA)₂PbBr₄ Perovskite Using an Organic Small Molecule. ACS Energy Letters, 2022, 7, 2450-2458.	8.8	8
28	Sequential Formation of Tunableâ€Bandgap Mixedâ€Halide Leadâ€Based Perovskites: In Situ Investigation and Photovoltaic Devices. Solar Rrl, 2021, 5, .	3.1	15
29	Scaling-up perovskite solar cells on hydrophobic surfaces. Nano Energy, 2021, 81, 105633.	8.2	46
30	Unraveling the New Role of an Ethylene Carbonate Solvation Shell in Rechargeable Metal Ion Batteries. ACS Energy Letters, 2021, 6, 69-78.	8.8	99
31	Amphipathic Side Chain of a Conjugated Polymer Optimizes Dopant Location toward Efficient Nâ€Type Organic Thermoelectrics. Advanced Materials, 2021, 33, e2006694.	11.1	91
32	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.	7.2	34
33	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. Nature Materials, 2021, 20, 378-384.	13.3	257
34	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.	1.6	2
35	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.	2.6	7
36	N-Doping improves charge transport and morphology in the organic non-fullerene acceptor O-IDTBR. Journal of Materials Chemistry C, 2021, 9, 4486-4495.	2.7	17

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37	Molecular doping of near-infrared organic photodetectors for photoplethysmogram sensors. Journal of Materials Chemistry C, 2021, 9, 3129-3135.	2.7	6
38	Tyrian purple: an ancient natural dye for cross-conjugated n-type charge transport. Journal of Materials Chemistry C, 2021, 9, 4200-4205.	2.7	2
39	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of Ti₃C₂T_x MXene Contacts. ACS Nano, 2021, 15, 5221-5229.	7.3	30
40	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, 2000718.	3.1	32
41	Lithiumâ€Ion Desolvation Induced by Nitrate Additives Reveals New Insights into High Performance Lithium Batteries. Advanced Functional Materials, 2021, 31, 2101593.	7.8	100
42	Adduct-based p-doping of organic semiconductors. Nature Materials, 2021, 20, 1248-1254.	13.3	40
43	Efficient Hybrid Amorphous Silicon/Organic Tandem Solar Cells Enabled by Nearâ€Infrared Absorbing Nonfullerene Acceptors. Advanced Energy Materials, 2021, 11, 2100166.	10.2	5
44	Polymorphism in Nonâ€Fullerene Acceptors Based on Indacenodithienothiophene. Advanced Functional Materials, 2021, 31, 2103784.	7.8	33
45	Wide-Band-Gap Mixed-Halide 3D Perovskites: Electronic Structure and Halide Segregation Investigation. ACS Applied Electronic Materials, 2021, 3, 2277-2285.	2.0	10
46	18.4â€‰% Organic Solar Cells Using a High Ionization Energy Selfâ€Assembled Monolayer as Holeâ€Extraction Interlayer. ChemSusChem, 2021, 14, 3569-3578.	3.6	121
47	Concurrent cationic and anionic perovskite defect passivation enables 27.4% perovskite/silicon tandems with suppression of halide segregation. Joule, 2021, 5, 1566-1586.	11.7	119
48	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, e2100421.	11.1	9
49	Ternary organic photodetectors based on pseudo-binaries nonfullerene-based acceptors. JPhys Materials, 2021, 4, 045001.	1.8	9
50	Pushing the Limits of Flexibility and Stretchability of Solar Cells: A Review. Advanced Materials, 2021, 33, e2101469.	11.1	51
51	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.	4.0	4
52	Using Two Compatible Donor Polymers Boosts the Efficiency of Ternary Organic Solar Cells to 17.7%. Chemistry of Materials, 2021, 33, 7254-7262.	3.2	35
53	Interfacial Model Deciphering Highâ€Voltage Electrolytes for High Energy Density, High Safety, and Fastâ€Charging Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2102964.	11.1	122
54	Unraveling the compositional heterogeneity and carrier dynamics of alkali cation doped 3D/2D perovskites with improved stability. Materials Advances, 2021, 2, 1253-1262.	2.6	23

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55	The Effect of Alkyl Spacers on the Mixed Ionicâ€Electronic Conduction Properties of Nâ€Type Polymers. Advanced Functional Materials, 2021, 31, 2008718.	7.8	67
56	Ruddlesdenâ€“Popperâ€Phase Hybrid Halide Perovskite/Smallâ€Molecule Organic Blend Memory Transistors. Advanced Materials, 2021, 33, e2003137.	11.1	32
57	Chemical Design Rules for Nonâ€Fullerene Acceptors in Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2102363.	10.2	38
58	Printed Memtransistor Utilizing a Hybrid Perovskite/Organic Heterojunction Channel. ACS Applied Materials & Interfaces, 2021, 13, 51592-51601.	4.0	9
59	Charge Carrier Recombination at Perovskite/Hole Transport Layer Interfaces Monitored by Time-Resolved Spectroscopy. ACS Energy Letters, 2021, 6, 4155-4164.	8.8	20
60	Sputtered transparent electrodes for optoelectronic devices: Induced damage and mitigation strategies. Matter, 2021, 4, 3549-3584.	5.0	43
61	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. Joule, 2021, 5, 3169-3186.	11.7	99
62	Transistors based on two-dimensional materials for future integrated circuits. Nature Electronics, 2021, 4, 786-799.	13.1	335
63	Chemical Design Rules for Nonâ€Fullerene Acceptors in Organic Solar Cells (Adv. Energy Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	10.2	2
64	Rapid photodegradation of organic micro-pollutants in water using high-intensity pulsed light. Journal of Water Process Engineering, 2021, 44, 102414.	2.6	5
65	Hall Effect in Polycrystalline Organic Semiconductors: The Effect of Grain Boundaries. Advanced Functional Materials, 2020, 30, 1903617.	7.8	37
66	Recent Progress in Photonic Processing of Metalâ€Oxide Transistors. Advanced Functional Materials, 2020, 30, 1906022.	7.8	58
67	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. Energy and Environmental Science, 2020, 13, 268-276.	15.6	40
68	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.	5.2	68
69	Novel wide-bandgap non-fullerene acceptors for efficient tandem organic solar cells. Journal of Materials Chemistry A, 2020, 8, 1164-1175.	5.2	39
70	Colossal Tunneling Electroresistance in Coâ€Planar Polymer Ferroelectric Tunnel Junctions. Advanced Electronic Materials, 2020, 6, 1901091.	2.6	14
71	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.	6.6	101
72	Low-Temperature Cross-Linking Benzocyclobutene Based Polymer Dielectric for Organic Thin Film Transistors on Plastic Substrates. Journal of Organic Chemistry, 2020, 85, 277-283.	1.7	17

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73	Polymer Lightâ€Emitting Transistors With Chargeâ€Carrier Mobilities Exceeding 1 cm² V^{â^'1} s^{â^'1}. Advanced Electronic Materials, 2020, 6, 1901132.	2.6	8
74	Nonfullerene-Based Organic Photodetectors for Ultrahigh Sensitivity Visible Light Detection. ACS Applied Materials & Interfaces, 2020, 12, 48836-48844.	4.0	40
75	100â€‰GHz zinc oxide Schottky diodes processed from solution on a wafer scale. Nature Electronics, 2020, 3, 718-725.	13.1	45
76	Long-range exciton diffusion in molecular non-fullerene acceptors. Nature Communications, 2020, 11, 5220.	5.8	204
77	Quantum Confinement and Thicknessâ€Dependent Electron Transport in Solutionâ€Processed In₂O₃ Transistors. Advanced Electronic Materials, 2020, 6, 2000682.	2.6	16
78	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.	15.6	170
79	A Structurally Simple but Highâ€Performing Donorâ€“Acceptor Polymer for Fieldâ€Effect Transistor Applications. Advanced Electronic Materials, 2020, 6, 2000490.	2.6	10
80	N-type organic thermoelectrics: demonstration of ZTâ€‰>â€‰0.3. Nature Communications, 2020, 11, 5694.	5.8	98
81	Efficient Double- and Triple-Junction Nonfullerene Organic Photovoltaics and Design Guidelines for Optimal Cell Performance. ACS Energy Letters, 2020, 5, 3692-3701.	8.8	15
82	Metal Halide Perovskites for Highâ€Energy Radiation Detection. Advanced Science, 2020, 7, 2002098.	5.6	126
83	A Simple n-Dopant Derived from Diquat Boosts the Efficiency of Organic Solar Cells to 18.3%. ACS Energy Letters, 2020, 5, 3663-3671.	8.8	253
84	A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2004273.	7.8	17
85	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.	2.7	19
86	Optoelectronic Ferroelectric Domainâ€Wall Memories Made from a Single Van Der Waals Ferroelectric. Advanced Functional Materials, 2020, 30, 2004206.	7.8	67
87	Printable CsPbI₃ Perovskite Solar Cells with PCE of 19% via an Additive Strategy. Advanced Materials, 2020, 32, e2001243.	11.1	157
88	Ambipolar Deep-Subthreshold Printed-Carbon-Nanotube Transistors for Ultralow-Voltage and Ultralow-Power Electronics. ACS Nano, 2020, 14, 14036-14046.	7.3	30
89	Ledge-directed epitaxy of continuously self-aligned single-crystalline nanoribbons of transition metal dichalcogenides. Nature Materials, 2020, 19, 1300-1306.	13.3	104
90	Understanding Charge Transport in Highâ€Mobility pâ€Doped Multicomponent Blend Organic Transistors. Advanced Electronic Materials, 2020, 6, 2000539.	2.6	15

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91	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.	8.8	425
92	Lowâ€Voltage Heterojunction Metal Oxide Transistors via Rapid Photonic Processing. Advanced Electronic Materials, 2020, 6, 2000028.	2.6	25
93	Highâ€Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer. Advanced Energy Materials, 2020, 10, 2000823.	10.2	23
94	Emerging Thinâ€Film Transistor Technologies and Applications. Advanced Functional Materials, 2020, 30, 2001678.	7.8	8
95	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.	2.5	13
96	Highly transparent and conductive electrodes enabled by scalable printing-and-sintering of silver nanowires. Nanotechnology, 2020, 31, 395201.	1.3	32
97	Water stable molecular n-doping produces organic electrochemical transistors with high transconductance and record stability. Nature Communications, 2020, 11, 3004.	5.8	82
98	Rapid Photonic Processing of High-Electron-Mobility PbS Colloidal Quantum Dot Transistors. ACS Applied Materials & Interfaces, 2020, 12, 31591-31600.	4.0	16
99	Efficient Hybrid Mixedâ€Ion Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. Solar Rrl, 2020, 4, 2000272.	3.1	19
100	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.	2.7	109
101	A Highly Conductive Titanium Oxynitride Electronâ€Selective Contact for Efficient Photovoltaic Devices. Advanced Materials, 2020, 32, e2002608.	11.1	46
102	Role of Alkali-Metal Cations in Electronic Structure and Halide Segregation of Hybrid Perovskites. ACS Applied Materials & Interfaces, 2020, 12, 34402-34412.	4.0	15
103	Low Temperature Scalable Deposition of Copper(I) Thiocyanate Films via Aerosol-Assisted Chemical Vapor Deposition. Crystal Growth and Design, 2020, 20, 5380-5386.	1.4	3
104	Solution-processable and photopolymerisable TiO₂ nanorods as dielectric layers for thin film transistors. RSC Advances, 2020, 10, 25540-25546.	1.7	6
105	Organic Solar Cells: Highâ€Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer (Adv. Energy Mater. 25/2020). Advanced Energy Materials, 2020, 10, 2070109.	10.2	0
106	Core Fluorination Enhances Solubility and Ambient Stability of an IDTâ€Based nâ€Type Semiconductor in Transistor Devices. Advanced Functional Materials, 2020, 30, 2000325.	7.8	27
107	Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. ACS Nano, 2020, 14, 3969-3979.	7.3	30
108	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.	8.8	208

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109	Electrolyte Engineering Enables High Stability and Capacity Alloying Anodes for Sodium and Potassium Ion Batteries. ACS Energy Letters, 2020, 5, 766-776.	8.8	134
110	17.1% Efficient Singleâ€Junction Organic Solar Cells Enabled by nâ€Type Doping of the Bulkâ€Heterojunction. Advanced Science, 2020, 7, 1903419.	5.6	173
111	Roomâ€Temperature Partial Conversion of Î±â€FAPbI₃Perovskite Phase via PbI₂Solvation Enables Highâ€Performance Solar Cells. Advanced Functional Materials, 2020, 30, 1907442.	7.8	41
112	Crucial Role of Fluorine in Fully Alkylated Ladder-Type Carbazole-Based Nonfullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 9555-9562.	4.0	31
113	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. Nature Energy, 2020, 5, 131-140.	19.8	894
114	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.	1.5	10
115	Stretchable and Transparent Conductive PEDOT:PSSâ€Based Electrodes for Organic Photovoltaics and Strain Sensors Applications. Advanced Functional Materials, 2020, 30, 2001251.	7.8	88
116	Bias stability of solution-processed In2O3 thin film transistors. JPhys Materials, 2020, 4, 015003.	1.8	5
117	Device Physics in Organic Solar Cells and Drift-Diffusion Simulations. , 2020, , 1-36.		1
118	Flexible IGZO TFTs and Their Suitability for Space Applications. IEEE Journal of the Electron Devices Society, 2019, 7, 1182-1190.	1.2	14
119	Fused Cyclopentadithienothiophene Acceptor Enables Ultrahigh Shortâ€Circuit Current and High Efficiency >11% in Asâ€Cast Organic Solar Cells. Advanced Functional Materials, 2019, 29, 1904956.	7.8	26
120	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.	1.6	57
121	Impact of Layer Configuration and Doping on Electron Transport and Bias Stability in Heterojunction and Superlattice Metal Oxide Transistors. Advanced Functional Materials, 2019, 29, 1902591.	7.8	46
122	Impact of Fullerene on the Photophysics of Ternary Small Molecule Organic Solar Cells. Advanced Energy Materials, 2019, 9, 1901443.	10.2	37
123	Impact of Nonfullerene Acceptor Side Chain Variation on Transistor Mobility. Advanced Electronic Materials, 2019, 5, 1900344.	2.6	45
124	On the Role of Contact Resistance and Electrode Modification in Organic Electrochemical Transistors. Advanced Materials, 2019, 31, e1902291.	11.1	52
125	Growth of 2H stacked WSe₂ bilayers on sapphire. Nanoscale Horizons, 2019, 4, 1434-1442.	4.1	20
126	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. Joule, 2019, 3, 1963-1976.	11.7	222

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127	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.	6.6	45
128	17% Efficient Organic Solar Cells Based on Liquid Exfoliated WS₂ as a Replacement for PEDOT:PSS. Advanced Materials, 2019, 31, e1902965.	11.1	500
129	Self-Powered Perovskite/CdS Heterostructure Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 40204-40213.	4.0	65
130	Efficient and Stable Solution-Processed Organic Light-Emitting Transistors Using a High-k Dielectric. ACS Photonics, 2019, 6, 3159-3165.	3.2	11
131	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.	2.5	51
132	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, 1905810.	7.8	41
133	Electrochemical Stability and Ambipolar Charge Transport in Diketopyrrolopyrrole-Based Organic Materials. ACS Applied Electronic Materials, 2019, 1, 2037-2046.	2.0	5
134	Ultrathin channels make transistors go faster. Nature Materials, 2019, 18, 1033-1034.	13.3	5
135	Deciphering photocarrier dynamics for tuneable high-performance perovskite-organic semiconductor heterojunction phototransistors. Nature Communications, 2019, 10, 4475.	5.8	49
136	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.	3.2	40
137	Impact of the Solvation State of Lead Iodide on Its Twoâ€Step Conversion to MAPbI₃: An In Situ Investigation. Advanced Functional Materials, 2019, 29, 1807544.	7.8	45
138	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, 1900179.	3.1	19
139	Introducing a Nonvolatile Nâ€Type Dopant Drastically Improves Electron Transport in Polymer and Smallâ€Molecule Organic Transistors. Advanced Functional Materials, 2019, 29, 1902784.	7.8	35
140	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, 1901371.	7.8	39
141	Triarylphosphine Oxide as Cathode Interfacial Material for Inverted Perovskite Solar Cells. Advanced Materials Interfaces, 2019, 6, 1900434.	1.9	16
142	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, e1900871.	11.1	64
143	Plasmonicâ€Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. Solar Rrl, 2019, 3, 1900138.	3.1	34
144	P3HT Molecular Weight Determines the Performance of P3HT:Oâ€IDTBR Solar Cells. Solar Rrl, 2019, 3, 1900023.	3.1	27

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145	Lightâ€Emitting Transistors Based on Solutionâ€Processed Heterostructures of Selfâ€Organized Multipleâ€Quantumâ€Well Perovskite and Metalâ€Oxide Semiconductors. Advanced Electronic Materials, 2019, 5, 1800985.	2.6	18
146	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, 1800305.	3.1	41
147	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.	6.6	307
148	Key Parameters Requirements for Nonâ€Fullereneâ€Based Organic Solar Cells with Power Conversion Efficiency >20%. Advanced Science, 2019, 6, 1802028.	5.6	149
149	Impact of the Gate Dielectric on Contact Resistance in Highâ€Mobility Organic Transistors. Advanced Electronic Materials, 2019, 5, 1800723.	2.6	40
150	A versatile star-shaped organic semiconductor based on benzodithiophene and diketopyrrolopyrrole. Journal of Materials Chemistry C, 2019, 7, 6622-6629.	2.7	16
151	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.	2.2	15
152	Rapid photonic curing of solution-processed In2O3 layers on flexible substrates. Applied Surface Science, 2019, 479, 974-979.	3.1	19
153	Adding a new layer to â€˜more than Mooreâ€™. Nature Electronics, 2019, 2, 497-498.	13.1	8
154	Hybrid organicâ€“metal oxide multilayer channel transistors with high operational stability. Nature Electronics, 2019, 2, 587-595.	13.1	49
155	Lyotropic â€˜hairyâ€™ TiO₂ nanorods. Nanoscale Advances, 2019, 1, 254-264.	2.2	8
156	One-step growth of reduced graphene oxide on arbitrary substrates. Carbon, 2019, 144, 457-463.	5.4	12
157	Charge and Triplet Exciton Generation in Neat PC₇₀BM Films and Hybrid CuSCN:PC₇₀BM Solar Cells. Advanced Energy Materials, 2019, 9, 1802476.	10.2	20
158	Î±,Î²-Unsubstituted meso-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.	2.7	22
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