

Thomas D Anthopoulos

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

412
papers

24,197
citations

80
h-index

138
g-index

449
ext. papers

27,801
ext. citations

12.2
avg, IF

7.06
L-index

#	Paper	IF	Citations
412	14GHz Schottky Diodes using a p-Doped Organic Polymer.. <i>Advanced Materials</i> , 2022 , e2108524	24	1
411	A Universal Cosolvent Evaporation Strategy Enables Direct Printing of Perovskite Single Crystals for Optoelectronic Device Applications.. <i>Advanced Materials</i> , 2022 , e2109862	24	1
410	N-type polymer semiconductors incorporating para, meta, and ortho-carborane in the conjugated backbone. <i>Polymer</i> , 2022 , 240, 124481	3.9	2
409	Metal Halide Perovskites for High-Energy Radiation Detection 2022 , 119-144		1
408	Infrared Organic Photodetectors Employing Ultralow Bandgap Polymer and Non-Fullerene Acceptors for Biometric Monitoring.. <i>Small</i> , 2022 , e2200580	11	3
407	Efficient Piezoelectric Energy Harvesting from a Discrete Hybrid Bismuth Bromide Ferroelectric Templated by Phosphonium Cation.. <i>Chemistry - A European Journal</i> , 2022 ,	4.8	3
406	Damp heat-stable perovskite solar cells with tailored-dimensionality 2D/3D heterojunctions.. <i>Science</i> , 2022 , eabm5784	33.3	57
405	Low-energy consumption CuSCN-based ultra-low-ppb level ozone sensor, operating at room temperature. <i>Sensors and Actuators A: Physical</i> , 2022 , 338, 113462	3.9	
404	Near-IR Absorbing Molecular Semiconductors Incorporating Cyanated Benzothiadiazole Acceptors for High-Performance Semitransparent n-Type Organic Field-Effect Transistors 2022 , 4, 165-174		3
403	Charge transport and recombination in wide-bandgap Y6 derivatives-based organic solar cells. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2022 , 13, 025001	1.6	
402	A Tri-Channel Oxide Transistor Concept for the Rapid Detection of Biomolecules Including the SARS-CoV-2 Spike Protein. <i>Advanced Materials</i> , 2021 , e2104608	24	6
401	Over 18% Ternary Polymer Solar Cells Enabled By A Terpolymer as The Third Component. <i>Nano Energy</i> , 2021 , 92, 106681	17.1	23
400	Sputtered transparent electrodes for optoelectronic devices: Induced damage and mitigation strategies. <i>Matter</i> , 2021 , 4, 3549-3584	12.7	8
399	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. <i>Joule</i> , 2021 ,	27.8	15
398	Doping Approaches for Organic Semiconductors. <i>Chemical Reviews</i> , 2021 ,	68.1	26
397	Transistors based on two-dimensional materials for future integrated circuits. <i>Nature Electronics</i> , 2021 , 4, 786-799	28.4	51
396	Chemical Design Rules for Non-Fullerene Acceptors in Organic Solar Cells (Adv. Energy Mater. 44/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170175	21.8	0

395	Y6 Organic Thin-Film Transistors with Electron Mobilities of 2.4 cm ² V ⁻¹ s ⁻¹ via Microstructural Tuning. <i>Advanced Science</i> , 2021 , e2104977	13.6	3
394	Rapid photodegradation of organic micro-pollutants in water using high-intensity pulsed light. <i>Journal of Water Process Engineering</i> , 2021 , 44, 102414	6.7	1
393	Emissive Charge-Transfer States at Hybrid Inorganic/Organic Heterojunctions Enable Low Non-Radiative Recombination and High-Performance Photodetectors. <i>Advanced Materials</i> , 2021 , e2104634	24	3
392	Printed Memtransistor Utilizing a Hybrid Perovskite/Organic Heterojunction Channel. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 51592-51601	9.5	4
391	Oligoethylene Glycol Side Chains Increase Charge Generation in Organic Semiconductor Nanoparticles for Enhanced Photocatalytic Hydrogen Evolution. <i>Advanced Materials</i> , 2021 , e2105007	24	6
390	Wide and Tunable Bandgap MAPbBr ₃ /Cl _x Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021 , 5, 2000718	7.1	10
389	Lithium-Ion Desolvation Induced by Nitrate Additives Reveals New Insights into High Performance Lithium Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101593	15.6	27
388	Adduct-based p-doping of organic semiconductors. <i>Nature Materials</i> , 2021 , 20, 1248-1254	27	18
387	Efficient Hybrid Amorphous Silicon/Organic Tandem Solar Cells Enabled by Near-Infrared Absorbing Nonfullerene Acceptors. <i>Advanced Energy Materials</i> , 2021 , 11, 2100166	21.8	3
386	Polymorphism in Non-Fullerene Acceptors Based on Indacenodithienothiophene. <i>Advanced Functional Materials</i> , 2021 , 31, 2103784	15.6	15
385	Wide-Band-Gap Mixed-Halide 3D Perovskites: Electronic Structure and Halide Segregation Investigation. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2277-2285	4	3
384	18.4 % Organic Solar Cells Using a High Ionization Energy Self-Assembled Monolayer as Hole-Extraction Interlayer. <i>ChemSusChem</i> , 2021 , 14, 3569-3578	8.3	54
383	Concurrent cationic and anionic perovskite defect passivation enables 27.4% perovskite/silicon tandems with suppression of halide segregation. <i>Joule</i> , 2021 , 5, 1566-1586	27.8	43
382	Significant Performance Improvement in n-Channel Organic Field-Effect Transistors with C:C Co-Crystals Induced by Poly(2-ethyl-2-oxazoline) Nanodots. <i>Advanced Materials</i> , 2021 , 33, e2100421	24	4
381	Ternary organic photodetectors based on pseudo-binaries nonfullerene-based acceptors. <i>JPhys Materials</i> , 2021 , 4, 045001	4.2	2
380	Pushing the Limits of Flexibility and Stretchability of Solar Cells: A Review. <i>Advanced Materials</i> , 2021 , 33, e2101469	24	15
379	Sequential Formation of Tunable-Bandgap Mixed-Halide Lead-Based Perovskites: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021 , 5, 2000668	7.1	10
378	Scaling-up perovskite solar cells on hydrophobic surfaces. <i>Nano Energy</i> , 2021 , 81, 105633	17.1	15

377	Unraveling the New Role of an Ethylene Carbonate Solvation Shell in Rechargeable Metal Ion Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 69-78	20.1	41
376	Amphipathic Side Chain of a Conjugated Polymer Optimizes Dopant Location toward Efficient N-Type Organic Thermoelectrics. <i>Advanced Materials</i> , 2021 , 33, e2006694	24	42
375	One-Step Sixfold Cyanation of Benzothiadiazole Acceptor Units for Air-Stable High-Performance n-Type Organic Field-Effect Transistors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5970-5977	16.4	10
374	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. <i>Nature Materials</i> , 2021 , 20, 378-384	27	108
373	One-Step Sixfold Cyanation of Benzothiadiazole Acceptor Units for Air-Stable High-Performance n-Type Organic Field-Effect Transistors. <i>Angewandte Chemie</i> , 2021 , 133, 6035-6042	3.6	0
372	The influence of alkyl group regiochemistry and backbone fluorination on the packing and transistor performance of N-cyanoimine functionalised indacenodithiophenes. <i>Materials Advances</i> , 2021 , 2, 1706-1714	3.3	4
371	N-Doping improves charge transport and morphology in the organic non-fullerene acceptor O-IDTBR. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4486-4495	7.1	5
370	Molecular doping of near-infrared organic photodetectors for photoplethysmogram sensors. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3129-3135	7.1	2
369	Tyrian purple: an ancient natural dye for cross-conjugated n-type charge transport. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4200-4205	7.1	1
368	All-Solution-Processed Quantum Dot Electrical Double-Layer Transistors Enhanced by Surface Charges of TiCT MXene Contacts. <i>ACS Nano</i> , 2021 , 15, 5221-5229	16.7	12
367	Determining Out-of-Plane Hole Mobility in CuSCN via the Time-of-Flight Technique To Elucidate Its Function in Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38499-38507	9.5	
366	Using Two Compatible Donor Polymers Boosts the Efficiency of Ternary Organic Solar Cells to 17.7%. <i>Chemistry of Materials</i> , 2021 , 33, 7254-7262	9.6	11
365	Interfacial Model Deciphering High-Voltage Electrolytes for High Energy Density, High Safety, and Fast-Charging Lithium-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2102964	24	33
364	Unraveling the compositional heterogeneity and carrier dynamics of alkali cation doped 3D/2D perovskites with improved stability. <i>Materials Advances</i> , 2021 , 2, 1253-1262	3.3	6
363	The Effect of Alkyl Spacers on the Mixed Ionic-Electronic Conduction Properties of N-Type Polymers. <i>Advanced Functional Materials</i> , 2021 , 31, 2008718	15.6	33
362	Ruddlesden-Popper-Phase Hybrid Halide Perovskite/Small-Molecule Organic Blend Memory Transistors. <i>Advanced Materials</i> , 2021 , 33, e2003137	24	17
361	Low-Voltage Heterojunction Metal Oxide Transistors via Rapid Photonic Processing. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000028	6.4	12
360	High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer. <i>Advanced Energy Materials</i> , 2020 , 10, 2000823	21.8	18

359	Colloidal Quantum Dot Photovoltaics Using Ultrathin, Solution-Processed Bilayer In ₂ O ₃ /ZnO Electron Transport Layers with Improved Stability. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5135-5141	6.1	5
358	Highly transparent and conductive electrodes enabled by scalable printing-and-sintering of silver nanowires. <i>Nanotechnology</i> , 2020 , 31, 395201	3.4	13
357	Water stable molecular n-doping produces organic electrochemical transistors with high transconductance and record stability. <i>Nature Communications</i> , 2020 , 11, 3004	17.4	51
356	Rapid Photonic Processing of High-Electron-Mobility PbS Colloidal Quantum Dot Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31591-31600	9.5	9
355	Efficient Hybrid Mixed-Ion Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. <i>Solar Rrl</i> , 2020 , 4, 2000272	7.1	17
354	Liquid phase exfoliation of MoS ₂ and WS ₂ in aqueous ammonia and their application in highly efficient organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5259-5264	7.1	46
353	A Highly Conductive Titanium Oxynitride Electron-Selective Contact for Efficient Photovoltaic Devices. <i>Advanced Materials</i> , 2020 , 32, e2002608	24	22
352	Role of Alkali-Metal Cations in Electronic Structure and Halide Segregation of Hybrid Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34402-34412	9.5	10
351	Low Temperature Scalable Deposition of Copper(I) Thiocyanate Films via Aerosol-Assisted Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2020 , 20, 5380-5386	3.5	2
350	Solution-processable and photopolymerisable TiO nanorods as dielectric layers for thin film transistors.. <i>RSC Advances</i> , 2020 , 10, 25540-25546	3.7	2
349	Organic Solar Cells: High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer (Adv. Energy Mater. 25/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070109	21.8	
348	Core Fluorination Enhances Solubility and Ambient Stability of an IDT-Based n-Type Semiconductor in Transistor Devices. <i>Advanced Functional Materials</i> , 2020 , 30, 2000325	15.6	11
347	Solution-Processed Mixed-Dimensional Hybrid Perovskite/Carbon Nanotube Electronics. <i>ACS Nano</i> , 2020 , 14, 3969-3979	16.7	19
346	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020 , 5, 793-798	20.1	100
345	Electrolyte Engineering Enables High Stability and Capacity Alloying Anodes for Sodium and Potassium Ion Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 766-776	20.1	91
344	17.1% Efficient Single-Junction Organic Solar Cells Enabled by n-Type Doping of the Bulk-Heterojunction. <i>Advanced Science</i> , 2020 , 7, 1903419	13.6	110
343	Room-Temperature Partial Conversion of FAPbI_3 Perovskite Phase via PbI_2 Solvation Enables High-Performance Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 1907442	15.6	27
342	Crucial Role of Fluorine in Fully Alkylated Ladder-Type Carbazole-Based Nonfullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9555-9562	9.5	20

341	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020 , 5, 131-140	62.3	552
340	Device Physics in Organic Solar Cells and Drift-Diffusion Simulations 2020 , 1-36		1
339	Bias stability of solution-processed In ₂ O ₃ thin film transistors. <i>JPhys Materials</i> , 2020 , 4, 015003	4.2	1
338	Recent Progress in Photonic Processing of Metal-Oxide Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 1906022	15.6	33
337	A universal solution processed interfacial bilayer enabling ohmic contact in organic and hybrid optoelectronic devices. <i>Energy and Environmental Science</i> , 2020 , 13, 268-276	35.4	26
336	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: in situ investigation and highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1095-1104	13	49
335	Novel wide-bandgap non-fullerene acceptors for efficient tandem organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1164-1175	13	28
334	Colossal Tunneling Electroresistance in Co-Planar Polymer Ferroelectric Tunnel Junctions. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901091	6.4	9
333	Modification of Indacenodithiophene-Based Polymers and Its Impact on Charge Carrier Mobility in Organic Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2020 , 142, 652-664	16.4	55
332	Low-Temperature Cross-Linking Benzocyclobutene Based Polymer Dielectric for Organic Thin Film Transistors on Plastic Substrates. <i>Journal of Organic Chemistry</i> , 2020 , 85, 277-283	4.2	5
331	Polymer Light-Emitting Transistors With Charge-Carrier Mobilities Exceeding 1 cm ² V ⁻¹ s ⁻¹ . <i>Advanced Electronic Materials</i> , 2020 , 6, 1901132	6.4	6
330	Nonfullerene-Based Organic Photodetectors for Ultrahigh Sensitivity Visible Light Detection. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48836-48844	9.5	15
329	100 GHz zinc oxide Schottky diodes processed from solution on a wafer scale. <i>Nature Electronics</i> , 2020 , 3, 718-725	28.4	18
328	Long-range exciton diffusion in molecular non-fullerene acceptors. <i>Nature Communications</i> , 2020 , 11, 5220	17.4	87
327	Quantum Confinement and Thickness-Dependent Electron Transport in Solution-Processed In ₂ O ₃ Transistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000682	6.4	6
326	Over 14% efficiency all-polymer solar cells enabled by a low bandgap polymer acceptor with low energy loss and efficient charge separation. <i>Energy and Environmental Science</i> , 2020 , 13, 5017-5027	35.4	117
325	A Structurally Simple but High-Performing Donor-Acceptor Polymer for Field-Effect Transistor Applications. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000490	6.4	4
324	N-type organic thermoelectrics: demonstration of ZT > 0.3. <i>Nature Communications</i> , 2020 , 11, 5694	17.4	53

323	Efficient Double- and Triple-Junction Nonfullerene Organic Photovoltaics and Design Guidelines for Optimal Cell Performance. <i>ACS Energy Letters</i> , 2020 , 5, 3692-3701	20.1	5
322	Metal Halide Perovskites for High-Energy Radiation Detection. <i>Advanced Science</i> , 2020 , 7, 2002098	13.6	55
321	A Simple n-Dopant Derived from Diquat Boosts the Efficiency of Organic Solar Cells to 18.3%. <i>ACS Energy Letters</i> , 2020 , 5, 3663-3671	20.1	175
320	A Multilayered Electron Extracting System for Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2004273	15.6	8
319	Impact of p-type doping on charge transport in blade-coated small-molecule:polymer blend transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15368-15376	7.1	14
318	Optoelectronic Ferroelectric Domain-Wall Memories Made from a Single Van Der Waals Ferroelectric. <i>Advanced Functional Materials</i> , 2020 , 30, 2004206	15.6	26
317	Printable CsPbI Perovskite Solar Cells with PCE of 19% via an Additive Strategy. <i>Advanced Materials</i> , 2020 , 32, e2001243	24	88
316	Ambipolar Deep-Subthreshold Printed-Carbon-Nanotube Transistors for Ultralow-Voltage and Ultralow-Power Electronics. <i>ACS Nano</i> , 2020 , 14, 14036-14046	16.7	17
315	Ledge-directed epitaxy of continuously self-aligned single-crystalline nanoribbons of transition metal dichalcogenides. <i>Nature Materials</i> , 2020 , 19, 1300-1306	27	41
314	Understanding Charge Transport in High-Mobility p-Doped Multicomponent Blend Organic Transistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000539	6.4	9
313	Self-Assembled Monolayer Enables Hole Transport Layer-Free Organic Solar Cells with 18% Efficiency and Improved Operational Stability. <i>ACS Energy Letters</i> , 2020 , 5, 2935-2944	20.1	244
312	Hall Effect in Polycrystalline Organic Semiconductors: The Effect of Grain Boundaries. <i>Advanced Functional Materials</i> , 2020 , 30, 1903617	15.6	21
311	Thienyl Sidechain Substitution and Backbone Fluorination of Benzodithiophene-Based Donor Polymers Concertedly Minimize Carrier Losses in ITIC-Based Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10420-10429	3.8	7
310	Stretchable and Transparent Conductive PEDOT:PSS-Based Electrodes for Organic Photovoltaics and Strain Sensors Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 2001251	15.6	46
309	Use of the Phen-NaDPO:Sn(SCN) ₂ Blend as Electron Transport Layer Results to Consistent Efficiency Improvements in Organic and Hybrid Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1905810	15.6	30
308	Electrochemical Stability and Ambipolar Charge Transport in Diketopyrrolopyrrole-Based Organic Materials. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2037-2046	4	2
307	Ultrathin channels make transistors go faster. <i>Nature Materials</i> , 2019 , 18, 1033-1034	27	1
306	Deciphering photocarrier dynamics for tuneable high-performance perovskite-organic semiconductor heterojunction phototransistors. <i>Nature Communications</i> , 2019 , 10, 4475	17.4	31

305	Highly-efficient semi-transparent organic solar cells utilising non-fullerene acceptors with optimised multilayer MoO ₃ /Ag/MoO ₃ electrodes. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 450-455	7.8	27
304	Impact of the Solvation State of Lead Iodide on Its Two-Step Conversion to MAPbI ₃ : An In Situ Investigation. <i>Advanced Functional Materials</i> , 2019 , 29, 1807544	15.6	36
303	One-Step Blade-Coated Highly Efficient Nonfullerene Organic Solar Cells with a Self-Assembled Interfacial Layer Enabled by Solvent Vapor Annealing. <i>Solar Rrl</i> , 2019 , 3, 1900179	7.1	11
302	Introducing a Nonvolatile N-Type Dopant Drastically Improves Electron Transport in Polymer and Small-Molecule Organic Transistors. <i>Advanced Functional Materials</i> , 2019 , 29, 1902784	15.6	29
301	High Responsivity and Response Speed Single-Layer Mixed-Cation Lead Mixed-Halide Perovskite Photodetectors Based on Nanogap Electrodes Manufactured on Large-Area Rigid and Flexible Substrates. <i>Advanced Functional Materials</i> , 2019 , 29, 1901371	15.6	22
300	Triarylphosphine Oxide as Cathode Interfacial Material for Inverted Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900434	4.6	11
299	Addition of the Lewis Acid Zn(CF ₃) ₂ Enables Organic Transistors with a Maximum Hole Mobility in Excess of 20 cm ² V ⁻¹ s ⁻¹ . <i>Advanced Materials</i> , 2019 , 31, e1900871	24	48
298	Plasmonic-Enhanced Light Harvesting and Perovskite Solar Cell Performance Using Au Biometric Dimers with Broadband Structural Darkness. <i>Solar Rrl</i> , 2019 , 3, 1900138	7.1	21
297	P3HT Molecular Weight Determines the Performance of P3HT:O-IDTBR Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900023	7.1	21
296	Light-Emitting Transistors Based on Solution-Processed Heterostructures of Self-Organized Multiple-Quantum-Well Perovskite and Metal-Oxide Semiconductors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800985	6.4	14
295	Bismuth-Based Perovskite-Inspired Solar Cells: In Situ Diagnostics Reveal Similarities and Differences in the Film Formation of Bismuth- and Lead-Based Films. <i>Solar Rrl</i> , 2019 , 3, 1800305	7.1	30
294	Hybridization of Local Exciton and Charge-Transfer States Reduces Nonradiative Voltage Losses in Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6362-6374	16.4	188
293	Key Parameters Requirements for Non-Fullerene-Based Organic Solar Cells with Power Conversion Efficiency >20. <i>Advanced Science</i> , 2019 , 6, 1802028	13.6	107
292	Impact of the Gate Dielectric on Contact Resistance in High-Mobility Organic Transistors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800723	6.4	31
291	A versatile star-shaped organic semiconductor based on benzodithiophene and diketopyrrolopyrrole. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6622-6629	7.1	10
290	Highly sensitive and room temperature detection of ultra-low concentrations of O ₃ using self-powered sensing elements of Cu ₂ O nanocubes. <i>Nanoscale Advances</i> , 2019 , 1, 2009-2017	5.1	10
289	Rapid photonic curing of solution-processed In ₂ O ₃ layers on flexible substrates. <i>Applied Surface Science</i> , 2019 , 479, 974-979	6.7	13
288	Flexible IGZO TFTs and Their Suitability for Space Applications. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 1182-1190	2.3	7

287	Fused Cyclopentadithienothiophene Acceptor Enables Ultrahigh Short-Circuit Current and High Efficiency >11% in As-Cast Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1904956	15.6	18
286	Performance and Stability Improvement of Layered NCM Lithium-Ion Batteries at High Voltage by a Microporous AlO Sol-Gel Coating. <i>ACS Omega</i> , 2019 , 4, 13972-13980	3.9	37
285	Impact of Layer Configuration and Doping on Electron Transport and Bias Stability in Heterojunction and Superlattice Metal Oxide Transistors. <i>Advanced Functional Materials</i> , 2019 , 29, 1902591	15.6	29
284	Impact of Fullerene on the Photophysics of Ternary Small Molecule Organic Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901443	21.8	27
283	Impact of Nonfullerene Acceptor Side Chain Variation on Transistor Mobility. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900344	6.4	30
282	On the Role of Contact Resistance and Electrode Modification in Organic Electrochemical Transistors. <i>Advanced Materials</i> , 2019 , 31, e1902291	24	31
281	Growth of 2H stacked WSe ₂ bilayers on sapphire. <i>Nanoscale Horizons</i> , 2019 , 4, 1434-1442	10.8	11
280	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 1963-1976	27.8	154
279	The Effect of Ring Expansion in Thienobenzothienopyrrole Polymers for Organic Field-Effect Transistors. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18806-18813	16.4	23
278	17% Efficient Organic Solar Cells Based on Liquid Exfoliated WS ₂ as a Replacement for PEDOT:PSS. <i>Advanced Materials</i> , 2019 , 31, e1902965	24	384
277	Self-Powered Perovskite/CdS Heterostructure Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40204-40213	9.5	38
276	Efficient and Stable Solution-Processed Organic Light-Emitting Transistors Using a High-k Dielectric. <i>ACS Photonics</i> , 2019 , 6, 3159-3165	6.3	9
275	Enhancing the Charge Extraction and Stability of Perovskite Solar Cells Using Strontium Titanate (SrTiO ₃) Electron Transport Layer. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8090-8097	6.1	26
274	Hybrid organic-metal oxide multilayer channel transistors with high operational stability. <i>Nature Electronics</i> , 2019 , 2, 587-595	28.4	30
273	Lyotropic hairy TiO ₂ nanorods. <i>Nanoscale Advances</i> , 2019 , 1, 254-264	5.1	6
272	One-step growth of reduced graphene oxide on arbitrary substrates. <i>Carbon</i> , 2019 , 144, 457-463	10.4	10
271	Charge and Triplet Exciton Generation in Neat PC70BM Films and Hybrid CuSCN:PC70BM Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1802476	21.8	17
270	Unsubstituted meso-positioning thienyl BODIPY: a promising electron deficient building block for the development of near infrared (NIR) p-type donor-acceptor (D-A) conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4030-4040	7.1	17

269	Anion-induced N-doping of naphthalenediimide polymer semiconductor in organic thin-film transistors. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	26
268	Alkylated indacenodithieno[3,2-b]thiophene-based all donor ladder-type conjugated polymers for organic thin film transistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2004-2009	7.1	15
267	Copper (I) Selenocyanate (CuSeCN) as a Novel Hole-Transport Layer for Transistors, Organic Solar Cells, and Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1707319	15.6	13
266	High-Efficiency Fullerene Solar Cells Enabled by a Spontaneously Formed Mesostructured CuSCN-Nanowire Heterointerface. <i>Advanced Science</i> , 2018 , 5, 1700980	13.6	15
265	The Impact of Molecular p-Doping on Charge Transport in High-Mobility Small-Molecule/Polymer Blend Organic Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700464	6.4	52
264	An Alkylated Indacenodithieno[3,2-b]thiophene-Based Nonfullerene Acceptor with High Crystallinity Exhibiting Single Junction Solar Cell Efficiencies Greater than 13% with Low Voltage Losses. <i>Advanced Materials</i> , 2018 , 30, 1705209	24	399
263	Charge Photogeneration and Recombination in Mesostructured CuSCN-Nanowire/PC70BM Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800095	7.1	7
262	Solution-Processed In ₂ O ₃ /ZnO Heterojunction Electron Transport Layers for Efficient Organic Bulk Heterojunction and Inorganic Colloidal Quantum-Dot Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1800076	7.1	32
261	Accurate Extraction of Charge Carrier Mobility in 4-Probe Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1707105	15.6	30
260	Pronounced Side Chain Effects in Triple Bond-Conjugated Polymers Containing Naphthalene Diimides for n-Channel Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12921-12929	9.5	15
259	High Speed Ultraviolet Phototransistors Based on an Ambipolar Fullerene Derivative. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10202-10210	9.5	21
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248	Phase Inversion Strategy to Flexible Freestanding Electrode: Critical Coupling of Binders and Electrolytes for High Performance LiB Battery. <i>Advanced Functional Materials</i> , 2018 , 28, 1802244	15.6	48
247	Large-area plastic nanogap electronics enabled by adhesion lithography. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	18
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121	Be-Doped ZnO Thin-Film Transistors and Circuits Fabricated by Spray Pyrolysis in Air. <i>Journal of Display Technology</i> , 2013 , 9, 688-693		6
120	Improved field-effect transistor performance of a benzotrithiophene polymer through ketal cleavage in the solid state. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1806-10	9.5	19
119	Solution-processed ZnO nanoparticle-based transistors via a room-temperature photochemical conversion process. <i>Applied Physics Letters</i> , 2013 , 102, 193516	3.4	32
118	Selected peer-reviewed articles from EMRS 2012 symposium on "Organic and hybrid materials for flexible electronics: properties and applications". <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 5134-5	1.3	1
117	On-demand patterning of nanostructured pentacene transistors by scanning thermal lithography. <i>Advanced Materials</i> , 2013 , 25, 552-8	24	12
116	High-performance ambipolar diketopyrrolopyrrole-thieno[3,2-b]thiophene copolymer field-effect transistors with balanced hole and electron mobilities. <i>Advanced Materials</i> , 2012 , 24, 647-52	24	488
115	Thiophene fluorination to enhance photovoltaic performance in low band gap donor-acceptor polymers. <i>Chemical Communications</i> , 2012 , 48, 11130-2	5.8	60
114	Designing organic and inorganic ambipolar thin-film transistors and inverters: Theory and experiment. <i>Organic Electronics</i> , 2012 , 13, 2816-2824	3.5	27
113	Germaindacenodithiophene based low band gap polymers for organic solar cells. <i>Chemical Communications</i> , 2012 , 48, 2955-7	5.8	49
112	Random benzotrithiophene-based donor-acceptor copolymers for efficient organic photovoltaic devices. <i>Chemical Communications</i> , 2012 , 48, 5832-4	5.8	108
111	Solution-processable organic dielectrics for graphene electronics. <i>Nanotechnology</i> , 2012 , 23, 344017	3.4	30
110	Low band gap selenophene-diketopyrrolopyrrole polymers exhibiting high and balanced ambipolar performance in bottom-gate transistors. <i>Chemical Science</i> , 2012 , 3, 181-185	9.4	158
109	Organic Semiconductor Materials for Transistors 2012 , 1-26		5
108	Fullerene/cobalt porphyrin hybrid nanosheets with ambipolar charge transporting characteristics. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7204-6	16.4	104

107	Synthesis of novel thieno[3,2-b]thienobis(silolothiophene) based low bandgap polymers for organic photovoltaics. <i>Chemical Communications</i> , 2012 , 48, 7699-701	5.8	60
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105	Acenaphtho[1,2-b]quinoxaline based low band gap copolymers for organic thin film transistor applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4450-4458		15
104	Comparative Optoelectronic Study between Copolymers of Peripherally Alkylated Dithienosilole and Dithienogermole. <i>Macromolecules</i> , 2012 , 45, 735-742	5.5	39
103	Solution-processed small molecule transistors with low operating voltages and high grain-boundary anisotropy. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9458		17
102	Silaindacenodithiophene-Based Low Band Gap Polymers □The Effect of Fluorine Substitution on Device Performances and Film Morphologies. <i>Advanced Functional Materials</i> , 2012 , 22, 1663-1670	15.6	170
101	Solution-processed small molecule-polymer blend organic thin-film transistors with hole mobility greater than 5 cm ² /Vs. <i>Advanced Materials</i> , 2012 , 24, 2441-6	24	202
100	Air-stable and high-mobility n-channel organic transistors based on small-molecule/polymer semiconducting blends. <i>Advanced Materials</i> , 2012 , 24, 3205-11	24	116
99	Semiconducting Arylacetylene:Insulating Polymer Blends for Organic-Based Electronic Devices. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1402, 94		
98	Solution-processed dye-sensitized ZnO phototransistors with extremely high photoresponsivity. <i>Journal of Applied Physics</i> , 2012 , 112, 074507	2.5	29
97	Low-voltage graphene transistors based on self-assembled monolayer nanodielectrics. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1451, 179-184		
96	Benzotrithiophene Co-polymers with High Charge Carrier Mobilities in Field-Effect Transistors. <i>Chemistry of Materials</i> , 2011 , 23, 4025-4031	9.6	50
95	Self-assembly and charge transport properties of a benzobisthiazole end-capped with dihexyl thienothiophene units. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2091-2097		26
94	Pyrroloindacenodithiophene containing polymers for organic field effect transistors and organic photovoltaics. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18744		48
93	Silaindacenodithiophene Semiconducting Polymers for Efficient Solar Cells and High-Mobility Ambipolar Transistors □ <i>Chemistry of Materials</i> , 2011 , 23, 768-770	9.6	120
92	Molecular packing of high-mobility diketo pyrrolo-pyrrole polymer semiconductors with branched alkyl side chains. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15073-84	16.4	353
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