

John Anthony

List of Publications by Year in descending order

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274
papers

22,777
citations

9775

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8852

145
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285
docs citations

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times ranked

14120
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Symmetry Anthradithiophene Molecular Packing Motifs Promote Thermally Activated Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4433-4445.	1.5	15
2	Insights into the Structure and Self-Assembly of Organic Semiconductor/Quantum Dot Blends. <i>Advanced Functional Materials</i> , 2022, 32, 2109252.	7.8	2
3	Excited-State Dynamics of 5,14- vs 6,13-Bis(trialkylsilylethynyl)-Substituted Pentacenes: Implications for Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9784-9793.	1.5	9
4	Quantitative Hole Mobility Simulation and Validation in Substituted Acenes. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5530-5537.	2.1	7
5	Triplet-pair spin signatures from macroscopically aligned heteroacenes in an oriented single crystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	14
6	Emissive spin-0 triplet-pairs are a direct product of triplet-triplet annihilation in pentacene single crystals and anthradithiophene films. <i>Nature Chemistry</i> , 2021, 13, 163-171.	6.6	45
7	Hydrogen Bonding Optimizes Singlet Fission in Carboxylic Acid Functionalized Anthradithiophene Films. <i>ChemPhotoChem</i> , 2021, 5, 68-78.	1.5	7
8	Isothermal crystallization and time-temperature-transformation diagram of the organic semiconductor 5,11-bis(triethylsilylethynyl)anthradithiophene. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11745-11752.	2.7	2
9	Resolving electron injection from singlet fission-borne triplets into mesoporous transparent conducting oxides. <i>Chemical Science</i> , 2021, 12, 11146-11156.	3.7	1
10	Measuring the impact of spin-triplet exciton orientation on photocurrent in an organic transistor. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11809-11814.	2.7	6
11	Photocurrent in Metal-Halide Perovskite/Organic Semiconductor Heterostructures: Impact of Microstructure on Charge Generation Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10231-10238.	4.0	14
12	Direct detection of 5-MeV protons by flexible organic thin-film devices. <i>Science Advances</i> , 2021, 7, .	4.7	11
13	Suppressing bias stress degradation in high performance solution processed organic transistors operating in air. <i>Nature Communications</i> , 2021, 12, 2352.	5.8	48
14	Reply to: On the observation of photo-excitation effects in molecules using muon spin spectroscopy. <i>Nature Materials</i> , 2021, , .	13.3	0
15	OCELOT: An infrastructure for data-driven research to discover and design crystalline organic semiconductors. <i>Journal of Chemical Physics</i> , 2021, 154, 174705.	1.2	23
16	Singlet Fission in Concentrated TIPS-Pentacene Solutions: The Role of Excimers and Aggregates. <i>Journal of the American Chemical Society</i> , 2021, 143, 13749-13758.	6.6	22
17	What is special about silicon in functionalised organic semiconductors?. <i>Materials Advances</i> , 2021, 2, 5415-5421.	2.6	8
18	The role of orientation in the MEL response of OLEDs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10052-10064.	2.7	10

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19	Group 14 effects in alkynyl acene small molecule semiconductors. , 2021, , .		0
20	Nanoribbons or weakly connected acenes? The influence of pyrene insertion on linearly extended ring systems. Journal of Materials Chemistry C, 2021, 9, 16929-16934.	2.7	3
21	Exciton Polariton-Enhanced Photodimerization of Functionalized Tetracene. Journal of Physical Chemistry C, 2021, 125, 27072-27083.	1.5	10
22	Exciton Polaritons Reveal "Hidden" Populations in Functionalized Pentacene Films. Journal of Physical Chemistry C, 2021, 125, 27381-27393.	1.5	7
23	Enhanced Gas Sensing Performance of Organic Field-Effect Transistors by Modulating the Dimensions of Triethylsilylethynyl-Anthradithiophene Microcrystal Arrays. Advanced Materials Interfaces, 2020, 7, 1901696.	1.9	22
24	Manipulating molecules with strong coupling: harvesting triplet excitons in organic exciton microcavities. Chemical Science, 2020, 11, 343-354.	3.7	98
25	Tuning Triplet-Pair Separation versus Relaxation Using a Diamond Anvil Cell. Cell Reports Physical Science, 2020, 1, 100005.	2.8	7
26	Slow charge transfer from pentacene triplet states at the Marcus optimum. Nature Chemistry, 2020, 12, 63-70.	6.6	36
27	Ultrafast Triplet Pair Separation and Triplet Trapping following Singlet Fission in Amorphous Pentacene Films. Journal of Physical Chemistry C, 2020, 124, 23567-23578.	1.5	15
28	Photochemical upconversion of near-infrared light from below the silicon bandgap. Nature Photonics, 2020, 14, 585-590.	15.6	88
29	A Thermostable Protein Matrix for Spectroscopic Analysis of Organic Semiconductors. Journal of the American Chemical Society, 2020, 142, 13898-13907.	6.6	3
30	Synthesis and electronic properties of a linearly fused anthracene dimer. Tetrahedron Letters, 2020, 61, 152182.	0.7	4
31	Molecular packing-dependent exciton dynamics in functionalized anthradithiophene derivatives: From solutions to crystals. Journal of Chemical Physics, 2020, 153, 164715.	1.2	13
32	Large-area printed low-voltage organic thin film transistors <i>via</i> minimal-solution bar-coating. Journal of Materials Chemistry C, 2020, 8, 15112-15118.	2.7	14
33	Highly conductive wet-spun PEDOT:PSS fibers for applications in electronic textiles. Journal of Materials Chemistry C, 2020, 8, 11618-11630.	2.7	62
34	A Novel Mitigation Mechanism for Photo-Induced Trapping in an Anthradithiophene Derivative Using Additives. Advanced Electronic Materials, 2020, 6, 2000250.	2.6	5
35	Organic Field-Effect Transistors as Flexible, Tissue-Equivalent Radiation Dosimeters in Medical Applications. Advanced Science, 2020, 7, 2001522.	5.6	19
36	<i>In Situ</i> Reduction and Functionalization of Polycyclic Quinones. Organic Letters, 2020, 22, 7193-7196.	2.4	1

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37	Spin Fine Structure Reveals Biexciton Geometry in an Organic Semiconductor. <i>Physical Review Letters</i> , 2020, 125, 097402.	2.9	7
38	Thiol-Anchored TIPS-Tetracene Ligands with Quantitative Triplet Energy Transfer to PbS Quantum Dots and Improved Thermal Stability. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7239-7244.	2.1	11
39	TIPS-pentacene triplet exciton generation on PbS quantum dots results from indirect sensitization. <i>Chemical Science</i> , 2020, 11, 5690-5696.	3.7	19
40	Predictive Model of Charge Mobilities in Organic Semiconductor Small Molecules with Force-Matched Potentials. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3494-3503.	2.3	12
41	Conversion between triplet pair states is controlled by molecular coupling in pentadithiophene thin films. <i>Chemical Science</i> , 2020, 11, 7226-7238.	3.7	8
42	Direct vs Delayed Triplet Energy Transfer from Organic Semiconductors to Quantum Dots and Implications for Luminescent Harvesting of Triplet Excitons. <i>ACS Nano</i> , 2020, 14, 4224-4234.	7.3	33
43	Medical Applications of Tissue-Equivalent, Organic-Based Flexible Direct X-Ray Detectors. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	22
44	Real-time monitoring of trap dynamics reveals the electronic states that limit charge transport in crystalline organic semiconductors. <i>Materials Horizons</i> , 2020, 7, 2390-2398.	6.4	11
45	Probing the Wave Function and Dynamics of the Quintet Multiexciton State with Coherent Control in a Singlet Fission Material. <i>Physical Review X</i> , 2020, 10, .	2.8	8
46	Optimization of gate-bias stability and gas-sensing properties of triethylsilylethynyl anthradithiophene micro-strip field-effect transistors by incorporating insulating polymer. <i>Organic Electronics</i> , 2020, 85, 105878.	1.4	8
47	Gas Sensors: Enhanced Gas Sensing Performance of Organic Field-Effect Transistors by Modulating the Dimensions of Triethylsilylethynyl-Anthradithiophene Microcrystal Arrays (<i>Adv. Mater. Interfaces</i>)	1.0	14
48	Synthesis, crystal structure, polymorphism and microscopic luminescence properties of anthracene derivative compounds. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 427-435.	0.5	9
49	Engineering Molecular Ligand Shells on Quantum Dots for Quantitative Harvesting of Triplet Excitons Generated by Singlet Fission. <i>Journal of the American Chemical Society</i> , 2019, 141, 12907-12915.	6.6	48
50	Vibrational probe of the origin of singlet exciton fission in TIPS-pentacene solutions. <i>Journal of Chemical Physics</i> , 2019, 151, 154701.	1.2	18
51	The Direct Solution-Process Crystallization of π -Conjugated Small Molecules In-Situ Integrated Planar Electrodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900617.	0.8	0
52	Textured Poling of the Ferroelectric Dielectric Layer for Improved Organic Field-Effect Transistors. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801787.	1.9	10
53	Effect of Crystallization Modes in TIPS-pentacene/Insulating Polymer Blends on the Gas Sensing Properties of Organic Field-Effect Transistors. <i>Scientific Reports</i> , 2019, 9, 21.	1.6	58
54	Direct probe of the nuclear modes limiting charge mobility in molecular semiconductors. <i>Materials Horizons</i> , 2019, 6, 182-191.	6.4	53

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55	Annealing Behavior with Thickness Hindered Nucleation in Small-Molecule Organic Semiconductor Thin Films. <i>Crystal Growth and Design</i> , 2019, 19, 3777-3784.	1.4	2
56	Impact of Atomistic Substitution on Thin-Film Structure and Charge Transport in a Germanyl-ethynyl Functionalized Pentacene. <i>Chemistry of Materials</i> , 2019, 31, 6615-6623.	3.2	24
57	Exploring Crystal Structure in Ethyne-Substituted Pentacenes, and Their Elaboration into Crystalline Dehydro[18]annulenes. <i>Helvetica Chimica Acta</i> , 2019, 102, e1900026.	1.0	1
58	Influence of solvent additives on the morphology and electrical properties of diF-TES ADT organic field-effect transistors. <i>Organic Electronics</i> , 2019, 68, 205-211.	1.4	15
59	Micro-Raman imaging of isomeric segregation in small-molecule organic semiconductors. <i>Communications Chemistry</i> , 2019, 2, .	2.0	15
60	Directed Functionalization Tailors the Polarized Emission and Waveguiding Properties of Anthracene-Based Molecular Crystals. <i>Chemistry of Materials</i> , 2019, 31, 1775-1783.	3.2	14
61	Sensitizing Singlet Fission with Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2019, 141, 4919-4927.	6.6	83
62	Computationally aided design of a high-performance organic semiconductor: the development of a universal crystal engineering core. <i>Chemical Science</i> , 2019, 10, 10543-10549.	3.7	22
63	Boosting Direct X-Ray Detection in Organic Thin Films by Small Molecules Tailoring. <i>Advanced Functional Materials</i> , 2019, 29, 1806119.	7.8	45
64	Singlet Fission and Triplet Transfer to PbS Quantum Dots in TIPS-Tetracene Carboxylic Acid Ligands. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1454-1460.	2.1	53
65	Dynamics of singlet fission and electron injection in self-assembled acene monolayers on titanium dioxide. <i>Chemical Science</i> , 2018, 9, 3004-3013.	3.7	41
66	Processing Dependent Influence of the Hole Transport Layer Ionization Energy on Methylammonium Lead Iodide Perovskite Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15548-15557.	4.0	17
67	Delimited Polyacenes: Edge Topology as a Tool To Modulate Carbon Nanoribbon Structure, Conjugation, and Mobility. <i>Chemistry of Materials</i> , 2018, 30, 947-957.	3.2	21
68	Effect of Halogenation on the Energetics of Pure and Mixed Phases in Model Organic Semiconductors Composed of Anthradithiophene Derivatives and C ₆₀ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 4757-4767.	1.5	8
69	Endothermic singlet fission is hindered by excimer formation. <i>Nature Chemistry</i> , 2018, 10, 305-310.	6.6	130
70	Control of Energy Flow Dynamics between Tetracene Ligands and PbS Quantum Dots by Size Tuning and Ligand Coverage. <i>Nano Letters</i> , 2018, 18, 865-873.	4.5	62
71	Elucidation of Excitation Energy Dependent Correlated Triplet Pair Formation Pathways in an Endothermic Singlet Fission System. <i>Journal of the American Chemical Society</i> , 2018, 140, 4613-4622.	6.6	32
72	Direct Observation of Correlated Triplet Pair Dynamics during Singlet Fission Using Ultrafast Mid-IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2012-2022.	1.5	62

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73	Effects of Grain Boundary Density on the Gas Sensing Properties of Triethylsilylethynyl-Anthradithiophene Field-Effect Transistors. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701399.	1.9	39
74	Site-selective measurement of coupled spin pairs in an organic semiconductor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5077-5082.	3.3	39
75	Employing Pneumatic Nozzle Printing for Controlling the Crystal Growth of Small Molecule Organic Semiconductor for Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2018, 4, 1700534.	2.6	20
76	A simple and robust approach to reducing contact resistance in organic transistors. <i>Nature Communications</i> , 2018, 9, 5130.	5.8	96
77	Presence of Short Intermolecular Contacts Screens for Kinetic Stability in Packing Polymorphs. <i>Journal of the American Chemical Society</i> , 2018, 140, 7519-7525.	6.6	29
78	Striking the right balance of intermolecular coupling for high-efficiency singlet fission. <i>Chemical Science</i> , 2018, 9, 6240-6259.	3.7	97
79	1D versus 2D Growth of Soluble Acene Crystals from Soluble Acene/Polymer Blends Governed by a Residual Solvent Reservoir in a Phase-Separated Polymer Matrix. <i>Advanced Functional Materials</i> , 2018, 28, 1802875.	7.8	20
80	Molecular Packing-Dependent Exciton and Polariton Dynamics in Anthradithiophene Organic Crystals. <i>MRS Advances</i> , 2018, 3, 3465-3470.	0.5	7
81	Effect of molecular side groups and local nanoenvironment on photodegradation and its reversibility. , 2018, , .		0
82	Organic Electronics: The Influence of Isomer Purity on Trap States and Performance of Organic Thin-Film Transistors (Adv. Electron. Mater. 1/2017). <i>Advanced Electronic Materials</i> , 2017, 3, .	2.6	0
83	Understanding the Crystal Packing and Organic Thin-Film Transistor Performance in Isomeric Guest-Host Systems. <i>Advanced Materials</i> , 2017, 29, 1700048.	11.1	24
84	Solution-Processed Organic and Halide Perovskite Transistors on Hydrophobic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18120-18126.	4.0	40
85	Delayed Molecular Triplet Generation from Energized Lead Sulfide Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1458-1463.	2.1	78
86	Simple, low-cost, water-processable n-type thermoelectric composite films from multiwall carbon nanotubes in polyvinylpyrrolidone. <i>Synthetic Metals</i> , 2017, 225, 86-92.	2.1	20
87	Temporal mapping of photochemical reactions and molecular excited states with carbon specificity. <i>Nature Materials</i> , 2017, 16, 467-473.	13.3	16
88	The Influence of Isomer Purity on Trap States and Performance of Organic Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2017, 3, 1600294.	2.6	37
89	Triplet Transfer Mediates Triplet Pair Separation during Singlet Fission in 6,13-Bis(triisopropylsilylethynyl)-Pentacene. <i>Advanced Functional Materials</i> , 2017, 27, 1703929.	7.8	40
90	Laser-Printed Organic Thin-Film Transistors. <i>Advanced Materials Technologies</i> , 2017, 2, 1700167.	3.0	17

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91	Vibronically coherent ultrafast triplet-pair formation and subsequent thermally activated dissociation control efficient endothermic singlet fission. <i>Nature Chemistry</i> , 2017, 9, 1205-1212.	6.6	184
92	Growth, Structure, and Anisotropic Optical Properties of Difluoro-anthradithiophene Thin Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21011-21017.	1.5	11
93	Interface engineering to enhance charge injection and transport in solution-deposited organic transistors. <i>Organic Electronics</i> , 2017, 50, 100-105.	1.4	41
94	Crossover from band-like to thermally activated charge transport in organic transistors due to strain-induced traps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6739-E6748.	3.3	77
95	The entangled triplet pair state in acene and heteroacene materials. <i>Nature Communications</i> , 2017, 8, 15953.	5.8	171
96	Single-Molecule Level Insight into Nanoscale Environment-Dependent Photophysics in Blends. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12483-12494.	1.5	7
97	Solution-processable, crystalline material for quantitative singlet fission. <i>Materials Horizons</i> , 2017, 4, 915-923.	6.4	56
98	Photophysical characterization and time-resolved spectroscopy of an anthradithiophene dimer: exploring the role of conformation in singlet fission. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23162-23175.	1.3	31
99	Organic Thin-Film Transistors: Laser-Printed Organic Thin-Film Transistors (<i>Adv. Mater. Technol.</i>) Tj ETQq1 1 0.784314 rgBT /Over	3.0	6
100	Harnessing Molecular Vibrations to Probe Triplet Dynamics During Singlet Fission. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5700-5706.	2.1	39
101	Strongly exchange-coupled triplet pairs in an organic semiconductor. <i>Nature Physics</i> , 2017, 13, 176-181.	6.5	182
102	Theory-Driven Insight into the Crystal Packing of Trialkylsilylethynyl Pentacenes. <i>Chemistry of Materials</i> , 2017, 29, 2502-2512.	3.2	30
103	Structural and Electronic Properties of Crystalline, Isomerically Pure Anthradithiophene Derivatives. <i>Advanced Functional Materials</i> , 2016, 26, 2341-2348.	7.8	44
104	Vertical Phase Separation in Small Molecule:Polymer Blend Organic Thin Film Transistors Can Be Dynamically Controlled. <i>Advanced Functional Materials</i> , 2016, 26, 1737-1746.	7.8	98
105	Grain Boundary Induced Bias Instability in Soluble Acene-Based Thin-Film Transistors. <i>Scientific Reports</i> , 2016, 6, 33224.	1.6	27
106	Thermal resistances of thin films of small molecule organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8817-8821.	2.7	7
107	Transistor Sizing for Bias-Stress Instability Compensation in Inkjet-Printed Organic Complementary Inverters. <i>IEEE Electron Device Letters</i> , 2016, 37, 1438-1441.	2.2	4
108	Intrinsic Charge Trapping Observed as Surface Potential Variations in diF-TES-ADT Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21490-21496.	4.0	2

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109	Unified film patterning and annealing of an organic semiconductor with micro-grooved wet stamps. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6996-7003.	2.7	24
110	Dynamic Exchange During Triplet Transport in Nanocrystalline TIPS-Pentacene Films. <i>Journal of the American Chemical Society</i> , 2016, 138, 16069-16080.	6.6	84
111	Spray printing of organic semiconducting single crystals. <i>Nature Communications</i> , 2016, 7, 13531.	5.8	57
112	Red-emitting, EtTP-5-based organic nanoprobe for two-photon imaging in 3D multicellular biological models. <i>RSC Advances</i> , 2016, 6, 65770-65774.	1.7	4
113	Synthesis and Electrical Properties of Derivatives of 1,4-bis(trialkylsilylethynyl)benzo[2,3- <i>b</i> :5,6- <i>b'</i>]diindolizines. <i>Organic Letters</i> , 2016, 18, 6050-6053.	2.4	19
114	Reducing dynamic disorder in small-molecule organic semiconductors by suppressing large-amplitude thermal motions. <i>Nature Communications</i> , 2016, 7, 10736.	5.8	147
115	Observation of Two Triplet-Pair Intermediates in Singlet Exciton Fission. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2370-2375.	2.1	186
116	Photoinduced π -to n -type Switching in Thermoelectric Polymer/Carbon Nanotube Composites. <i>Advanced Materials</i> , 2016, 28, 2782-2789.	11.1	89
117	High mobility transistors based on electrospray-printed small-molecule/polymer semiconducting blends. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3499-3507.	2.7	30
118	Localization length scales of triplet excitons in singlet fission materials. <i>Physical Review B</i> , 2015, 92, .	1.1	16
119	Quantitative analysis of the density of trap states at the semiconductor-dielectric interface in organic field-effect transistors. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	75
120	Capillary effects in guided crystallization of organic thin films. <i>APL Materials</i> , 2015, 3, .	2.2	6
121	Identification of a triplet pair intermediate in singlet exciton fission in solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7656-7661.	3.3	178
122	Exciton Delocalization Drives Rapid Singlet Fission in Nanoparticles of Acene Derivatives. <i>Journal of the American Chemical Society</i> , 2015, 137, 6790-6803.	6.6	195
123	Quantifying the Energy Barriers and Elucidating the Charge Transport Mechanisms across Interspherulite Boundaries in Solution-Processed Organic Semiconductor Thin Films. <i>Advanced Functional Materials</i> , 2015, 25, 5662-5668.	7.8	24
124	Solution-printed organic semiconductor blends exhibiting transport properties on par with single crystals. <i>Nature Communications</i> , 2015, 6, 8598.	5.8	219
125	Disruption of Molecular Ordering over Several Layers near the Au/2,8-Difluoro-5,11-bis(triethylsilylethynyl) Anthradithiophene Interface. <i>Crystal Growth and Design</i> , 2015, 15, 822-828.	1.4	3
126	Electrospray-Processed Soluble Acenes toward the Realization of High-Performance Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6496-6504.	4.0	19

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127	The effect of regioisomerism on the crystal packing and device performance of desymmetrized anthradithiophenes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8956-8962.	2.7	8
128	Design of organic ternary blends and small-molecule bulk heterojunctions: photophysical considerations. <i>Journal of Photonics for Energy</i> , 2015, 5, 057208.	0.8	8
129	Polymer Directed Self-Assembly of pH-Responsive Antioxidant Nanoparticles. <i>Langmuir</i> , 2015, 31, 3612-3620.	1.6	61
130	Role of crystallinity of non-fullerene acceptors in bulk heterojunctions. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9989-9998.	5.2	18
131	Low-voltage polymer/small-molecule blend organic thin-film transistors and circuits fabricated via spray deposition. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	33
132	Crystalline Alloys of Organic Donors and Acceptors Based on TIPS-Pentacene. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20823-20832.	1.5	14
133	Decoupling the Effects of Self-Assembled Monolayers on Gold, Silver, and Copper Organic Transistor Contacts. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400384.	1.9	75
134	Thermal diffusivities of functionalized pentacene semiconductors. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	15
135	Organic Semiconductors: Rational Design of Organic Semiconductors for Texture Control and Self-Patterning on Halogenated Surfaces (<i>Adv. Funct. Mater.</i> 32/2014). <i>Advanced Functional Materials</i> , 2014, 24, 5168-5168.	7.8	1
136	The Electronic Nature and Reactivity of the Larger Acenes. <i>Israel Journal of Chemistry</i> , 2014, 54, 642-649.	1.0	50
137	Low-temperature phase transitions in a soluble oligoacene and their effect on device performance and stability. <i>Applied Physics Letters</i> , 2014, 105, 083305.	1.5	10
138	Geminate and Nongeminate Recombination of Triplet Excitons Formed by Singlet Fission. <i>Physical Review Letters</i> , 2014, 112, 238701.	2.9	67
139	Enhanced charge photogeneration promoted by crystallinity in small-molecule donor-acceptor bulk heterojunctions. <i>Applied Physics Letters</i> , 2014, 105, 043301.	1.5	30
140	Bistetracene: An Air-Stable, High-Mobility Organic Semiconductor with Extended Conjugation. <i>Journal of the American Chemical Society</i> , 2014, 136, 9248-9251.	6.6	150
141	Rational Design of Organic Semiconductors for Texture Control and Self-Patterning on Halogenated Surfaces. <i>Advanced Functional Materials</i> , 2014, 24, 5052-5058.	7.8	43
142	Late stage crystallization and healing during spin-coating enhance carrier transport in small-molecule organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5681-5689.	2.7	58
143	Addressing challenges. <i>Nature Materials</i> , 2014, 13, 773-775.	13.3	85
144	Effect of Ozone on the Stability of Solution-Processed Anthradithiophene-Based Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2014, 26, 3914-3919.	3.2	11

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145	Solvent-type-dependent polymorphism and charge transport in a long fused-ring organic semiconductor. <i>Nanoscale</i> , 2014, 6, 449-456.	2.8	59
146	All-Printed Flexible Organic Transistors Enabled by Surface Tension-Guided Blade Coating. <i>Advanced Materials</i> , 2014, 26, 5722-5727.	11.1	204
147	Vibration-Assisted Crystallization Improves Organic/Dielectric Interface in Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2013, 25, 6956-6962.	11.1	65
148	Conjugated Polymer-Mediated Polymorphism of a High Performance, Small-Molecule Organic Semiconductor with Tuned Intermolecular Interactions, Enhanced Long-Range Order, and Charge Transport. <i>Chemistry of Materials</i> , 2013, 25, 4378-4386.	3.2	77
149	Topography-guided spreading and drying of 6,13-bis(triisopropylsilylethynyl)-pentacene solution on a polymer insulator for the field-effect mobility enhancement. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	8
150	Self-organizing properties of triethylsilylethynyl-anthradithiophene on monolayer graphene electrodes in solution-processed transistors. <i>Nanoscale</i> , 2013, 5, 11094.	2.8	24
151	Singlet Exciton Fission in a Hexacene Derivative. <i>Advanced Materials</i> , 2013, 25, 1445-1448.	11.1	73
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