

Aram Amassian

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Conjugated Polymer Mesocrystals with Structural and Optoelectronic Coherence and Anisotropy in Three Dimensions. <i>Advanced Materials</i> , 2022, 34, e2103002.	11.1	11
2	Blending Donors with Different Molecular Weights: An Efficient Strategy to Resolve the Conflict between Coherence Length and Intermixed Phase in Polymer/Nonfullerene Solar Cells. <i>Small</i> , 2022, 18, e2103804.	5.2	16
3	A universal co-solvent dilution strategy enables facile and cost-effective fabrication of perovskite photovoltaics. <i>Nature Communications</i> , 2022, 13, 89.	5.8	77
4	Formamidinium-based Ruddlesden-Popper perovskite films fabricated via two-step sequential deposition: quantum well formation, physical properties and film-based solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 1144-1155.	15.6	27
5	Conjugated polymers with controllable interfacial order and energetics enable tunable heterojunctions in organic and colloidal quantum dot photovoltaics. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1788-1801.	5.2	6
6	Versatile methods for improving the mechanical properties of fullerene and non-fullerene bulk heterojunction layers to enable stretchable organic solar cells. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3375-3386.	2.7	10
7	A Universal Cosolvent Evaporation Strategy Enables Direct Printing of Perovskite Single Crystals for Optoelectronic Device Applications. <i>Advanced Materials</i> , 2022, 34, e2109862.	11.1	18
8	In Situ Study of Molecular Aggregation in Conjugated Polymer/Elastomer Blends toward Stretchable Electronics. <i>Macromolecules</i> , 2022, 55, 297-308.	2.2	30
9	Processing of Lead Halide Perovskite Thin Films Studied with In-Situ Real-Time X-ray Scattering. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 26315-26326.	4.0	5
10	Controlling Phase Transition toward Future Low-Cost and Eco-friendly Printing of Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6503-6513.	2.1	9
11	Roles of Organic Ligands in Ambient Stability of Layered Halide Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33085-33093.	4.0	2
12	Microstructure and lattice strain control towards high-performance ambient green-printed perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13297-13305.	5.2	29
13	A molecular interaction-diffusion framework for predicting organic solar cell stability. <i>Nature Materials</i> , 2021, 20, 525-532.	13.3	212
14	Perovskite Solar Cells toward Eco-Friendly Printing. <i>Research</i> , 2021, 2021, 9671892.	2.8	18
15	Balancing crop production and energy harvesting in organic solar-powered greenhouses. <i>Cell Reports Physical Science</i> , 2021, 2, 100381.	2.8	48
16	Wide and Tunable Bandgap MAPbBr ₃ Cl Hybrid Perovskites with Enhanced Phase Stability: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , 2021, 5, 2000718.	3.1	32
17	Film Formation Control for High Performance Dion-Jacobson 2D Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2002733.	10.2	62
18	Implication of polymeric template agent on the formation process of hybrid halide perovskite films. <i>Nanotechnology</i> , 2021, 32, 265707.	1.3	13

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19	Optimizing Morphology to Trade Off Charge Transport and Mechanical Properties of Stretchable Conjugated Polymer Films. <i>Macromolecules</i> , 2021, 54, 3907-3926.	2.2	70
20	Effective Phase Alignment for 2D Halide Perovskites Incorporating Symmetric Diammonium Ion for Photovoltaics. <i>Advanced Science</i> , 2021, 8, e2001433.	5.6	32
21	Stable 2D Alternating Cation Perovskite Solar Cells with Power Conversion Efficiency >19% via Solvent Engineering. <i>Solar Rrl</i> , 2021, 5, 2100286.	3.1	45
22	Pushing the Limits of Flexibility and Stretchability of Solar Cells: A Review. <i>Advanced Materials</i> , 2021, 33, e2101469.	11.1	51
23	Observation of spatially resolved Rashba states on the surface of CH ₃ NH ₃ PbBr ₃ single crystals. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	12
24	Impact of Residual Lead Iodide on Photophysical Properties of Lead Triiodide Perovskite Solar Cells. <i>Energy Technology</i> , 2020, 8, 1900627.	1.8	10
25	Observation of long spin lifetime in MAPbBr ₃ single crystals at room temperature. <i>JPhys Materials</i> , 2020, 3, 015012.	1.8	15
26	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: <i>in situ</i> investigation and highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1095-1104.	5.2	68
27	Systematic Study on the Morphological Development of Blade-Coated Conjugated Polymer Thin Films via In Situ Measurements. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36417-36427.	4.0	15
28	Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and High Efficiency Semitransparent Organic Photovoltaics. <i>Solar Rrl</i> , 2020, 4, 2000328.	3.1	36
29	Perovskite Quantum Dots: Artificial Chemist: An Autonomous Quantum Dot Synthesis Bot (Adv. Mater.) Tj ETQq1 1,0784314 rgBT /Ove	11.1	2
30	Colloidal Quantum Dot Photovoltaics: Current Progress and Path to Gigawatt Scale Enabled by Smart Manufacturing. <i>ACS Energy Letters</i> , 2020, 5, 3069-3100.	8.8	61
31	Printable CsPbI ₃ Perovskite Solar Cells with PCE of 19% via an Additive Strategy. <i>Advanced Materials</i> , 2020, 32, e2001243.	11.1	157
32	High-density polyethylene as an inert additive with stabilizing effects on organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15406-15415.	2.7	15
33	The Critical Role of Materials Interaction in Realizing Organic Field-Effect Transistors Via High-Dilution Blending with Insulating Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26239-26249.	4.0	22
34	High Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer. <i>Advanced Energy Materials</i> , 2020, 10, 2000823.	10.2	23
35	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.	2.5	13
36	Artificial Chemist: An Autonomous Quantum Dot Synthesis Bot. <i>Advanced Materials</i> , 2020, 32, e2001626.	11.1	170

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37	Efficient Hybrid Mixed-Halide Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. <i>Solar Rrl</i> , 2020, 4, 2000272.	3.1	19
38	Facile and noninvasive passivation, doping and chemical tuning of macroscopic hybrid perovskite crystals. <i>PLoS ONE</i> , 2020, 15, e0230540.	1.1	9
39	<i>In situ</i> study of the film formation mechanism of organic-inorganic hybrid perovskite solar cells: controlling the solvate phase using an additive system. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7695-7703.	5.2	29
40	Role of Alkali-Metal Cations in Electronic Structure and Halide Segregation of Hybrid Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34402-34412.	4.0	15
41	Organic Solar Cells: High-Performance Tandem Organic Solar Cells Using HSolar as the Interconnecting Layer (<i>Adv. Energy Mater.</i> 25/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070109.	10.2	0
42	Critical Role of Polymer Aggregation and Miscibility in Nonfullerene-Based Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2020, 10, 1902430.	10.2	41
43	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.	7.8	41
44	Efficient near-infrared light-emitting diodes based on quantum dots in layered perovskite. <i>Nature Photonics</i> , 2020, 14, 227-233.	15.6	136
45	Optimizing Solid-State Ligand Exchange for Colloidal Quantum Dot Optoelectronics: How Much Is Enough?. <i>ACS Applied Energy Materials</i> , 2020, 3, 5385-5392.	2.5	29
46	Stretchable and Transparent Conductive PEDOT:PSS-Based Electrodes for Organic Photovoltaics and Strain Sensors Applications. <i>Advanced Functional Materials</i> , 2020, 30, 2001251.	7.8	88
47	The Growth of Photoactive Porphyrin-Based MOF Thin Films Using the Liquid-Phase Epitaxy Approach and their Optoelectronic Properties. <i>Materials</i> , 2019, 12, 2457.	1.3	11
48	Ligand-Size Related Dimensionality Control in Metal Halide Perovskites. <i>ACS Energy Letters</i> , 2019, 4, 1830-1838.	8.8	38
49	Multi-cation Synergy Suppresses Phase Segregation in Mixed-Halide Perovskites. <i>Joule</i> , 2019, 3, 1746-1764.	11.7	159
50	Compositional Control in 2D Perovskites with Alternating Cations in the Interlayer Space for Photovoltaics with Efficiency over 18%. <i>Advanced Materials</i> , 2019, 31, e1903848.	11.1	171
51	Fine Multi-Phase Alignments in 2D Perovskite Solar Cells with Efficiency over 17% via Slow Post-Annealing. <i>Advanced Materials</i> , 2019, 31, e1903889.	11.1	178
52	Scalable Ambient Fabrication of High-Performance CsPbI_2Br Solar Cells. <i>Joule</i> , 2019, 3, 2485-2502.	11.7	124
53	Interfacial Engineering at the 2D/3D Heterojunction for High-Performance Perovskite Solar Cells. <i>Nano Letters</i> , 2019, 19, 7181-7190.	4.5	163
54	Environmental impact of the production of graphene oxide and reduced graphene oxide. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	55

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55	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.	7.8	45
56	Kinetic Stabilization of the Sol-Gel State in Perovskites Enables Facile Processing of High-Efficiency Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1808357.	11.1	76
57	Lattice anchoring stabilizes solution-processed semiconductors. <i>Nature</i> , 2019, 570, 96-101.	13.7	208
58	Impressive near-infrared brightness and singlet oxygen generation from strategic lanthanide-porphyrin double-decker complexes in aqueous solution. <i>Light: Science and Applications</i> , 2019, 8, 46.	7.7	33
59	Controlled Steric Hindrance Enables Efficient Ligand Exchange for Stable, Infrared-Bandgap Quantum Dot Inks. <i>ACS Energy Letters</i> , 2019, 4, 1225-1230.	8.8	54
60	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.	3.1	41
61	Conducting and Stretchable PEDOT:PSS Electrodes: Role of Additives on Self-Assembly, Morphology, and Transport. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17570-17582.	4.0	72
62	Low-temperature-gradient crystallization for multi-inch high-quality perovskite single crystals for record performance photodetectors. <i>Materials Today</i> , 2019, 22, 67-75.	8.3	204
63	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , 2019, 141, 2684-2694.	6.6	189
64	Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701607.	1.9	14
65	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. <i>Nature Nanotechnology</i> , 2018, 13, 456-462.	15.6	252
66	Phase Transition Control for High Performance Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1707166.	11.1	244
67	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.	2.6	63
68	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Li-S Batteries. <i>ACS Nano</i> , 2018, 12, 836-843.	7.3	76
69	Hybrid Tandem Quantum Dot/Organic Solar Cells with Enhanced Photocurrent and Efficiency via Ink and Interlayer Engineering. <i>ACS Energy Letters</i> , 2018, 3, 1307-1314.	8.8	40
70	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.	3.1	34
71	Blade-Coated Hybrid Perovskite Solar Cells with Efficiency > 17%: An In Situ Investigation. <i>ACS Energy Letters</i> , 2018, 3, 1078-1085.	8.8	171
72	Stable High-Performance Perovskite Solar Cells via Grain Boundary Passivation. <i>Advanced Materials</i> , 2018, 30, e1706576.	11.1	665

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73	On the Effect of Confinement on the Structure and Properties of Small-Molecular Organic Semiconductors. <i>Advanced Electronic Materials</i> , 2018, 4, 1700308.	2.6	19
74	High performance ambient-air-stable FAPbI ₃ perovskite solar cells with molecule-passivated Ruddlesden-Popper/3D heterostructured film. <i>Energy and Environmental Science</i> , 2018, 11, 3358-3366.	15.6	196
75	Single crystal hybrid perovskite field-effect transistors. <i>Nature Communications</i> , 2018, 9, 5354.	5.8	255
76	Multi-inch single-crystalline perovskite membrane for high-detectivity flexible photosensors. <i>Nature Communications</i> , 2018, 9, 5302.	5.8	212
77	The quantum-confined Stark effect in layered hybrid perovskites mediated by orientational polarizability of confined dipoles. <i>Nature Communications</i> , 2018, 9, 4214.	5.8	61
78	Compositional and orientational control in metal halide perovskites of reduced dimensionality. <i>Nature Materials</i> , 2018, 17, 900-907.	13.3	351
79	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (<i>Adv. Mater.</i> 35/2018). <i>Advanced Materials</i> , 2018, 30, 1870260.	11.1	3
80	Solvent Vapor Annealing: Bistetracene Thin Film Polymorphic Control to Unravel the Effect of Molecular Packing on Charge Transport (<i>Adv. Mater. Interfaces</i> 9/2018). <i>Advanced Materials Interfaces</i> , 2018, 5, 1870040.	1.9	0
81	A 1300 mm ² Ultrahigh-Performance Digital Imaging Assembly using High-Quality Perovskite Single Crystals. <i>Advanced Materials</i> , 2018, 30, e1707314.	11.1	246
82	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2018, 30, e1801661.	11.1	79
83	Contributions of the lead-bromine weighted bands to the occupied density of states of the hybrid tri-bromide perovskites. <i>Applied Physics Letters</i> , 2018, 113, 022101.	1.5	6
84	Highly Efficient Ruddlesden-Popper Halide Perovskite PA ₂ MA ₄ Pb ₅ I ₁₆ Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 1975-1982.	8.8	135
85	Phase Transition Control for High-Performance Blade-Coated Perovskite Solar Cells. <i>Joule</i> , 2018, 2, 1313-1330.	11.7	180
86	Double Charged Surface Layers in Lead Halide Perovskite Crystals. <i>Nano Letters</i> , 2017, 17, 2021-2027.	4.5	60
87	Perovskite Photovoltaics: Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases (<i>Adv. Mater.</i> 2/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	3
88	Open-Circuit Voltage in Organic Solar Cells: The Impacts of Donor Semicrystallinity and Coexistence of Multiple Interfacial Charge-Transfer Bands. <i>Advanced Energy Materials</i> , 2017, 7, 1601995.	10.2	35
89	Amorphous Tin Oxide as a Low-Temperature-Processed Electron-Transport Layer for Organic and Hybrid Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11828-11836.	4.0	145
90	Organic Gelators as Growth Control Agents for Stable and Reproducible Hybrid Perovskite-Based Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602600.	10.2	78

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91	Programmable and coherent crystallization of semiconductors. <i>Science Advances</i> , 2017, 3, e1602462.	4.7	35
92	Hybrid perovskite solar cells: <i>in situ</i> investigation of solution-processed PbI_2 reveals metastable precursors and a pathway to producing porous thin films. <i>Journal of Materials Research</i> , 2017, 32, 1899-1907.	1.2	26
93	Morphology Development in Solution-Processed Functional Organic Blend Films: An <i>In Situ</i> Viewpoint. <i>Chemical Reviews</i> , 2017, 117, 6332-6366.	23.0	145
94	Solution Coating of Superior Large-Area Flexible Perovskite Thin Films with Controlled Crystal Packing. <i>Advanced Optical Materials</i> , 2017, 5, 1700102.	3.6	34
95	Hybrid Doping of Few-Layer Graphene via a Combination of Intercalation and Surface Doping. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20020-20028.	4.0	11
96	Highly Efficient and Reproducible Nonfullerene Solar Cells from Hydrocarbon Solvents. <i>ACS Energy Letters</i> , 2017, 2, 1494-1500.	8.8	89
97	Hybrid tandem quantum dot/organic photovoltaic cells with complementary near infrared absorption. <i>Applied Physics Letters</i> , 2017, 110, 223903.	1.5	23
98	Heterojunction oxide thin-film transistors with unprecedented electron mobility grown from solution. <i>Science Advances</i> , 2017, 3, e1602640.	4.7	148
99	Microwave-synthesized tin oxide nanocrystals for low-temperature solution-processed planar junction organo-halide perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7759-7763.	5.2	45
100	A Solution-Doped Polymer Semiconductor: Insulator Blend for Thermoelectrics. <i>Advanced Science</i> , 2017, 4, 1600203.	5.6	72
101	Facile Doping and Work-Function Modification of Few-Layer Graphene Using Molecular Oxidants and Reductants. <i>Advanced Functional Materials</i> , 2017, 27, 1602004.	7.8	25
102	Enhanced Electrical Conductivity of Molecularly p-Doped Poly(3-hexylthiophene) through Understanding the Correlation with Solid-State Order. <i>Macromolecules</i> , 2017, 50, 8140-8148.	2.2	135
103	Effects of High Temperature and Thermal Cycling on the Performance of Perovskite Solar Cells: Acceleration of Charge Recombination and Deterioration of Charge Extraction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35018-35029.	4.0	62
104	Laser-Printed Organic Thin-Film Transistors. <i>Advanced Materials Technologies</i> , 2017, 2, 1700167.	3.0	17
105	Intermediate-Sized Conjugated Donor Molecules for Organic Solar Cells: Comparison of Benzodithiophene and Benzobisthiazole-Based Cores. <i>Chemistry of Materials</i> , 2017, 29, 7880-7887.	3.2	17
106	Polymer Main-Chain Substitution Effects on the Efficiency of Nonfullerene BHJ Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700834.	10.2	80
107	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
108	Molecular Doping of the Hole-Transporting Layer for Efficient, Single-Step-Deposited Colloidal Quantum Dot Photovoltaics. <i>ACS Energy Letters</i> , 2017, 2, 1952-1959.	8.8	45

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109	Improved Morphology and Efficiency of n-i-p Planar Perovskite Solar Cells by Processing with Glycol Ether Additives. ACS Energy Letters, 2017, 2, 1960-1968.	8.8	47
110	Stable high efficiency two-dimensional perovskite solar cells via cesium doping. Energy and Environmental Science, 2017, 10, 2095-2102.	15.6	588
111	An automatic window opening system to prevent drowning in vehicles sinking in water. Cogent Engineering, 2017, 4, 1347990.	1.1	5
112	Organic Thin-Film Transistors: Laser-Printed Organic Thin-Film Transistors (Adv. Mater. Technol.)	3.5	0
113	Hybrid organic-inorganic inks flatten the energy landscape in colloidal quantum dot solids. Nature Materials, 2017, 16, 258-263.	13.3	563
114	Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases. Advanced Materials, 2017, 29, 1604113.	11.1	155
115	Reducing the efficiency-stability-cost gap of organic photovoltaics with highly efficient and stable small molecule acceptor ternary solar cells. Nature Materials, 2017, 16, 363-369.	13.3	921
116	Radio Frequency Coplanar ZnO Schottky Nanodiodes Processed from Solution on Plastic Substrates. Small, 2016, 12, 1993-2000.	5.2	48
117	Vertical Phase Separation in Small Molecule:Polymer Blend Organic Thin Film Transistors Can Be Dynamically Controlled. Advanced Functional Materials, 2016, 26, 1737-1746.	7.8	98
118	Thin Film Transistors: Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing (Adv. Funct. Mater.)	7.4	0
119	Hybrid Modulation-Doping of Solution-Processed Ultrathin Layers of ZnO Using Molecular Dopants. Advanced Materials, 2016, 28, 3952-3959.	11.1	16
120	Electrical limit of silver nanowire electrodes: Direct measurement of the nanowire junction resistance. Applied Physics Letters, 2016, 108, .	1.5	41
121	Ultra-low p-doping of poly(3-hexylthiophene) and its impact on polymer aggregation and photovoltaic performance. Organic Photonics and Photovoltaics, 2016, 4, .	1.3	3
122	Highly efficient polymer solar cells with printed photoactive layer: rational process transfer from spin-coating. Journal of Materials Chemistry A, 2016, 4, 16036-16046.	5.2	57
123	Remote Molecular Doping of Colloidal Quantum Dot Photovoltaics. ACS Energy Letters, 2016, 1, 922-930.	8.8	40
124	Morphology changes upon scaling a high-efficiency, solution-processed solar cell. Energy and Environmental Science, 2016, 9, 2835-2846.	15.6	170
125	Solution-processable MoOx nanocrystals enable highly efficient reflective and semitransparent polymer solar cells. Nano Energy, 2016, 28, 277-287.	8.2	27
126	Donor and Acceptor Unit Sequences Influence Material Performance in Benzo[1,2-b:4,5-b']dithiophene-6,7-difluoroquinoxaline Small Molecule Donors for BHJ Solar Cells. Advanced Functional Materials, 2016, 26, 7103-7114.	7.8	26

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127	The Roles of Structural Order and Intermolecular Interactions in Determining Ionization Energies and Charge-Transfer State Energies in Organic Semiconductors. <i>Advanced Energy Materials</i> , 2016, 6, 1601211.	10.2	45
128	Optoelectronic and photovoltaic properties of the air-stable organohalide semiconductor (CH ₃ NH ₃) ₃ Bi ₂ I ₉ . <i>Journal of Materials Chemistry A</i> , 2016, 4, 12504-12515.	5.2	151
129	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. <i>Journal of the American Chemical Society</i> , 2016, 138, 10252-10259.	6.6	270
130	Carrier Transport Enhancement in Conjugated Polymers through Interfacial Self-Assembly of Solution-State Aggregates. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19649-19657.	4.0	15
131	n-type organic electrochemical transistors with stability in water. <i>Nature Communications</i> , 2016, 7, 13066.	5.8	242
132	Reduced voltage losses yield 10% efficient fullerene free organic solar cells with >1 V open circuit voltages. <i>Energy and Environmental Science</i> , 2016, 9, 3783-3793.	15.6	477
133	Surface Restructuring of Hybrid Perovskite Crystals. <i>ACS Energy Letters</i> , 2016, 1, 1119-1126.	8.8	140
134	Mesostructured Fullerene Electrodes for Highly Efficient n-i-p Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 1049-1056.	8.8	37
135	Contact-Induced Nucleation in High-Performance Bottom-Contact Organic Thin Film Transistors Manufactured by Large-Area Compatible Solution Processing. <i>Advanced Functional Materials</i> , 2016, 26, 2371-2378.	7.8	71
136	Double-Sided Junctions Enable High-Performance Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2016, 28, 4142-4148.	11.1	121
137	KO ^t Bu-Initiated Aryl C-H Iodination: A Powerful Tool for the Synthesis of High Electron Affinity Compounds. <i>Journal of the American Chemical Society</i> , 2016, 138, 3946-3949.	6.6	57
138	10-fold enhancement in light-driven water splitting using niobium oxynitride microcone array films. <i>Solar Energy Materials and Solar Cells</i> , 2016, 151, 149-153.	3.0	27
139	Quasi Two-Dimensional Dye-Sensitized In ₂ O ₃ Phototransistors for Ultrahigh Responsivity and Photosensitivity Photodetector Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4894-4902.	4.0	61
140	Ligand-Stabilized Reduced-Dimensionality Perovskites. <i>Journal of the American Chemical Society</i> , 2016, 138, 2649-2655.	6.6	1,157
141	Morphology Changes Upon Scaling a High-Efficiency, Solution-Processed Solar Cell From Spin-Coating to Roll-to-Roll Coating. <i>Energy and Environmental Science</i> , 2016, 9, .	15.6	4
142	Quantum Dots: Overcoming the Cut-Off Charge Transfer Bandgaps at the PbS Quantum Dot Interface (<i>Adv. Funct. Mater.</i> 48/2015). <i>Advanced Functional Materials</i> , 2015, 25, 7548-7548.	7.8	0
143	Photovoltaics: Highly Efficient Hybrid Photovoltaics Based on Hyperbranched Three-Dimensional TiO ₂ Electron Transporting Materials (<i>Adv. Mater.</i> 18/2015). <i>Advanced Materials</i> , 2015, 27, 2814-2814.	11.1	1
144	A Thieno[3,2-b][1]benzothiophene Isoindigo Building Block for Additive- and Annealing-Free High-Performance Polymer Solar Cells. <i>Advanced Materials</i> , 2015, 27, 4702-4707.	11.1	120

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145	Synergistic Impact of Solvent and Polymer Additives on the Film Formation of Small Molecule Blend Films for Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501121.	10.2	56
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