List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Solution-processed small-molecule solar cells with 6.7% efficiency. Nature Materials, 2012, 11, 44-48.	27.5	1,437
2	Leadâ€Free Halide Perovskite Solar Cells with High Photocurrents Realized Through Vacancy Modulation. Advanced Materials, 2014, 26, 7122-7127.	21.0	942
3	Intensity Dependence of Current–Voltage Characteristics and Recombination in High-Efficiency Solution-Processed Small-Molecule Solar Cells. ACS Nano, 2013, 7, 4569-4577.	14.6	857
4	Lead-free germanium iodide perovskite materials for photovoltaic applications. Journal of Materials Chemistry A, 2015, 3, 23829-23832.	10.3	841
5	Formamidinium tin-based perovskite with low E _g for photovoltaic applications. Journal of Materials Chemistry A, 2015, 3, 14996-15000.	10.3	449
6	Charge Formation, Recombination, and Sweepâ€Out Dynamics in Organic Solar Cells. Advanced Functional Materials, 2012, 22, 1116-1128.	14.9	286
7	Identifying a Threshold Impurity Level for Organic Solar Cells: Enhanced Firstâ€Order Recombination Via Wellâ€Defined PC ₈₄ BM Traps in Organic Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2011, 21, 3083-3092.	14.9	212
8	Differential Resistance Analysis of Charge Carrier Losses in Organic Bulk Heterojunction Solar Cells: Observing the Transition from Bimolecular to Trapâ€Assisted Recombination and Quantifying the Order of Recombination. Advanced Energy Materials, 2011, 1, 517-522.	19.5	204
9	Nonâ€Volatile Organic Memory Applications Enabled by In Situ Synthesis of Gold Nanoparticles in a Selfâ€Assembled Block Copolymer. Advanced Materials, 2008, 20, 2325-2331.	21.0	186
10	A swivel-cruciform thiophene based hole-transporting material for efficient perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 6305-6309.	10.3	167
11	Flexible Ionicâ€Electronic Hybrid Oxide Synaptic TFTs with Programmable Dynamic Plasticity for Brainâ€Inspired Neuromorphic Computing. Small, 2017, 13, 1701193.	10.0	152
12	Charging phenomena in pentacene-gold nanoparticle memory device. Applied Physics Letters, 2007, 90, 042906.	3.3	141
13	Towards printable organic thin film transistor based flash memory devices. Journal of Materials Chemistry, 2011, 21, 5203.	6.7	133
14	Identifying Fundamental Limitations in Halide Perovskite Solar Cells. Advanced Materials, 2016, 28, 2439-2445.	21.0	129
15	Lightweight, Superelastic Boron Nitride/Polydimethylsiloxane Foam as Air Dielectric Substitute for Multifunctional Capacitive Sensor Applications. Advanced Functional Materials, 2020, 30, 1909604.	14.9	117
16	Micellar poly(styrene-b-4-vinylpyridine)-nanoparticle hybrid system for non-volatile organic transistor memory. Journal of Materials Chemistry, 2009, 19, 7354.	6.7	99
17	A New Terthiopheneâ€Thienopyrrolodione Copolymerâ€Based Bulk Heterojunction Solar Cell with High Openâ€Circuit Voltage. Advanced Energy Materials, 2012, 2, 1397-1403.	19.5	98
18	Efficient and Ambientâ€Air‣table Solar Cell with Highly Oriented 2D@3D Perovskites. Advanced Functional Materials, 2018, 28, 1801654.	14.9	98

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19	lonicâ€Liquid Doping Enables High Transconductance, Fast Response Time, and High Ion Sensitivity in Organic Electrochemical Transistors. Advanced Materials, 2019, 31, e1805544.	21.0	95
20	Role of trace impurities in the photovoltaic performance of solution processed small-molecule bulk heterojunction solar cells. Chemical Science, 2012, 3, 2103.	7.4	84
21	Organic Electrochemical Transistors for In Vivo Bioelectronics. Advanced Materials, 2021, 33, e2101874.	21.0	78
22	Human Hair Keratin for Biocompatible Flexible and Transient Electronic Devices. ACS Applied Materials & Interfaces, 2017, 9, 43004-43012.	8.0	74
23	A Highly Conducting Polymer for Selfâ€Healable, Printable, and Stretchable Organic Electrochemical Transistor Arrays and Near Hysteresisâ€Free Soft Tactile Sensors. Advanced Materials, 2022, 34, e2200682.	21.0	63
24	Understanding the Role of Thermal Processing in High Performance Solution Processed Small Molecule Bulk Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 356-363.	19.5	52
25	Universal Spray-Deposition Process for Scalable, High-Performance, and Stable Organic Electrochemical Transistors. ACS Applied Materials & Interfaces, 2020, 12, 20757-20764.	8.0	48
26	Recent Technological Advances in Fabrication and Application of Organic Electrochemical Transistors. Advanced Materials Technologies, 2020, 5, 2000523.	5.8	46
27	Proquinoidal-Conjugated Polymer as an Effective Strategy for the Enhancement of Electrical Conductivity and Thermoelectric Properties. Chemistry of Materials, 2019, 31, 8543-8550.	6.7	43
28	Ionicâ€Liquid Induced Morphology Tuning of PEDOT:PSS for Highâ€Performance Organic Electrochemical Transistors. Advanced Functional Materials, 2022, 32, .	14.9	43
29	Effects of Impurities on Operational Mechanism of Organic Bulk Heterojunction Solar Cells. Advanced Materials, 2013, 25, 1706-1712.	21.0	42
30	Contact Modulated Ionic Transfer Doping in Allâ€Solidâ€State Organic Electrochemical Transistor for Ultraâ€High Sensitive Tactile Perception at Low Operating Voltage. Advanced Functional Materials, 2020, 30, 2006186.	14.9	42
31	Self-Healable Organic Electrochemical Transistor with High Transconductance, Fast Response, and Long-Term Stability. ACS Applied Materials & Interfaces, 2020, 12, 33979-33988.	8.0	40
32	Enhancing the Electrochemical Doping Efficiency in Diketopyrrolopyrroleâ€Based Polymer for Organic Electrochemical Transistors. Advanced Electronic Materials, 2021, 7, .	5.1	39
33	Alkali Additives Enable Efficient Large Area (>55 cm ²) Slotâ€Die Coated Perovskite Solar Modules. Advanced Functional Materials, 2022, 32, .	14.9	39
34	All Inorganic Mixed Halide Perovskite Nanocrystal–Graphene Hybrid Photodetector: From Ultrahigh Gain to Photostability. ACS Applied Materials & Interfaces, 2019, 11, 27064-27072.	8.0	37
35	Optogenetics inspired transition metal dichalcogenide neuristors for in-memory deep recurrent neural networks. Nature Communications, 2020, 11, 3211.	12.8	36
36	Recent advancements and perspectives on light management and high performance in perovskite light-emitting diodes. Nanophotonics, 2021, 10, 2103-2143.	6.0	35

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37	Solution processed non-volatile top-gate polymer field-effect transistors. Journal of Materials Chemistry, 2011, 21, 8971.	6.7	34
38	Cubic NaSbS ₂ as an Ionic–Electronic Coupled Semiconductor for Switchable Photovoltaic and Neuromorphic Device Applications. Advanced Materials, 2020, 32, e1906976.	21.0	34
39	Slot-die coated methylammonium-free perovskite solar cells with 18% efficiency. Solar Energy Materials and Solar Cells, 2021, 230, 111189.	6.2	28
40	Halide perovskite-based indoor photovoltaics: recent development and challenges. Materials Today Energy, 2022, 23, 100907.	4.7	27
41	Self-healable electrochromic ion gels for low power and robust displays. Organic Electronics, 2019, 71, 199-205.	2.6	21
42	Charging dynamics of discrete gold nanoparticle arrays self-assembled within a poly(styrene-b-4-vinylpyridine) diblock copolymer template. Applied Physics Letters, 2008, 93, 222908.	3.3	20
43	Diketopyrrolopyrrole based organic semiconductors with different numbers of thiophene units: symmetry tuning effect on electronic devices. New Journal of Chemistry, 2018, 42, 4017-4028.	2.8	19
44	Manifestation of Carrier Relaxation Through the Manifold of Localized States in PCDTBT:PC ₆₀ BM Bulk Heterojunction Material: The Role of PC ₈₄ BM Traps on the Carrier Transport. Advanced Materials, 2012, 24, 2273-2277.	21.0	18
45	Efficient Polymer Solar Cells Enabled by Low Temperature Processed Ternary Metal Oxide as Electron Transport Interlayer with Large Stoichiometry Window. ACS Applied Materials & Interfaces, 2015, 7, 11099-11106.	8.0	15
46	Novel amphiphilic corannulene additive for moisture-resistant perovskite solar cells. Chemical Communications, 2020, 56, 11997-12000.	4.1	15
47	Perturbation-Induced Seeding and Crystallization of Hybrid Perovskites over Surface-Modified Substrates for Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 27727-27734.	8.0	12
48	Elastic modulus tailoring in CH3NH3PbI3 perovskite system by the introduction of two dimensionality using (5-AVA)2PbI4. Solar Energy, 2021, 224, 27-34.	6.1	10
49	Direct arylation polymerization toward ultraâ€low bandgap poly(thienoisoindigoâ€ <i>alt</i> â€diketopyrrolepyrrole) conjugated polymers: The effect of βâ€protection on the polymerization and properties of the polymers. Journal of Polymer Science Part A, 2017, 55, 3205-3213.	2.3	9
50	Large area, high efficiency and stable perovskite solar cells enabled by fine control of intermediate phase. Solar Energy Materials and Solar Cells, 2019, 201, 110113.	6.2	9
51	Crown ether enabled enhancement of ionic–electronic properties of PEDOT:PSS. Materials Horizons, 2022, 9, 2408-2415.	12.2	8
52	Selfâ€Powered Organic Electrochemical Transistors with Stable, Lightâ€Intensity Independent Operation Enabled by Carbonâ€Based Perovskite Solar Cells. Advanced Materials Technologies, 0, , 2100565.	5.8	7
53	Non-Volatile Organic Transistor Memory Based on Black Phosphorus Quantum Dots as Charge Trapping Layer. IEEE Electron Device Letters, 2020, 41, 852-855.	3.9	6
54	Polaron Delocalization Dependence of the Conductivity and the Seebeck Coefficient in Doped Conjugated Polymers. Journal of Physical Chemistry B, 2022, 126, 2073-2085.	2.6	5

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55	Improvement in polymer solar cell performance and eliminating light soaking effect via UV-light treatment on conjugated polyelectrolyte interlayer. Organic Electronics, 2015, 25, 105-111.	2.6	4
56	Water robustness of organic thin-film transistors based on pyrazino[2,3- <i>g</i>]quinoxaline-dione conjugated polymer. Journal of Materials Chemistry C, 2020, 8, 4157-4163.	5.5	4
57	Operando Direct Observation of Filament Formation in Resistive Switching Devices Enabled by a Topological Transformation Molecule. Nano Letters, 2021, 21, 9262-9269.	9.1	4
58	Comparing data driven and physics inspired models for hopping transport in organic field effect transistors. Scientific Reports, 2021, 11, 23621.	3.3	4
59	Flexible Organic Electronics: Contact Modulated Ionic Transfer Doping in Allâ€Solidâ€State Organic Electrochemical Transistor for Ultraâ€High Sensitive Tactile Perception at Low Operating Voltage (Adv.) Tj ETQq1	11 4. 9843	14.rgBT /Ov
60	Biopolymer based gate dielectrics for high performance organic thin film transistors. , 2020, , .		1
61	Organic Electrochemical Transistors for In Vivo Bioelectronics (Adv. Mater. 49/2021). Advanced Materials, 2021, 33, .	21.0	1
62	Ammonium sulfate treatment at TiO2/perovskite interface boosts operational stability of perovskite solar cells. Journal of Materials Chemistry C, 0, , .	5.5	0
63	Tuning Precursors Ink Stoichiometry for High Efficiency Scalable Perovskite Photovoltaics. , 2021, , .		Ο