Yun Li

List of Publications by Year
in descending order

85	3,674	136950	133252
papers	citations	32 h-index	59 g-index

86	86	86	4673
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Retinaâ€Inspired Selfâ€Powered Artificial Optoelectronic Synapses with Selective Detection in Organic Asymmetric Heterojunctions. Advanced Science, 2022, 9, e2103494.	11.2	40
2	Emerging Logic Devices beyond CMOS. Journal of Physical Chemistry Letters, 2022, 13, 1914-1924.	4.6	5
3	Molecular-Layer-Defined Asymmetric Schottky Contacts in Organic Planar Diodes for Self-Powered Optoelectronic Synapses. Journal of Physical Chemistry Letters, 2022, 13, 2338-2347.	4.6	9
4	In-situ/operando characterization techniques for organic semiconductors and devices. Journal of Semiconductors, 2022, 43, 041101.	3.7	6
5	A Smarter Pavlovian Dog with Optically Modulated Associative Learning in an Organic Ferroelectric Neuromem. Research, 2021, 2021, 9820502.	5.7	9
6	Asymmetric electrode geometry induced photovoltaic behavior for self-powered organic artificial synapses. Flexible and Printed Electronics, 2021, 6, 044009.	2.7	2
7	Precise Extraction of Charge Carrier Mobility for Organic Transistors. Advanced Functional Materials, 2020, 30, 1904508.	14.9	34
8	Solution-processed organic single-crystalline semiconductors with a fence-like shape via ultrasound concussion. Journal of Materials Chemistry C, 2020, 8, 2589-2593.	5.5	2
9	Low-power-consumption organic field-effect transistors. JPhys Materials, 2020, 3, 014009.	4.2	22
10	Effect of access resistance on the experimentally measured temperatureâ€“carrier mobility dependence in highly-crystalline DNTT-based transistors. Materials Advances, 2020, 1, 1799-1804.	5.4	5
11	Device Based on Polymer Schottky Junctions and Their Applications: A Review. IEEE Access, 2020, 8, 189646-189660.	4.2	9
12	Patterning 2D Organic Crystalline Semiconductors via Thermally Induced Selfâ€Assembly. Advanced Electronic Materials, 2020, 6, 2000438.	5.1	7
13	An Optically Modulated Organic Schottkyâ€Barrier Planarâ€Diodeâ€Based Artificial Synapse. Advanced Optical Materials, 2020, 8, 2000153.	7.3	52
14	Fewâ€Layer Organic Crystalline van der Waals Heterojunctions for Ultrafast UV Phototransistors. Advanced Electronic Materials, 2020, 6, 2000062.	5.1	22
15	Molecular Layer-Defined Transition of Carrier Distribution and Correlation with Transport in Organic Crystalline Semiconductors. ACS Applied Materials & Interfaces, 2020, 12, 26267-26275.	8.0	6
16	Role of Schottky Barrier and Access Resistance in Organic Field-Effect Transistors. Journal of Physical Chemistry Letters, 2020, 11, 1466-1472.	4.6	19
17	Semiconductor/dielectric interface in organic field-effect transistors: charge transport, interfacial effects, and perspectives with 2D molecular crystals. Advances in Physics: X, 2020, 5, 1747945.	4.1	9
18	Probing Coulomb Interactions on Charge Transport in Fewâ€Layer Organic Crystalline Semiconductors by the Gated van der Pauw Method. Advanced Electronic Materials, 2020, 6, 2000136.	5.1	7

#	Article	IF	Citations
19	Approaching isotropic transfer integrals in crystalline organic semiconductors. Physical Review Materials, 2020, 4, .	2.4	5
20	Fabrication of Two-Dimensional Crystalline Organic Films by Tilted Spin Coating for High-Performance Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2019, 11, 7226-7234.	8.0	24
21	Advanced electronic skin devices for healthcare applications. Journal of Materials Chemistry B, 2019, 7, 173-197.	5.8	193
22	pJ-Level Energy-Consuming, Low-Voltage Ferroelectric Organic Field-Effect Transistor Memories. Journal of Physical Chemistry Letters, 2019, 10, 2335-2340.	4.6	30
23	Additive-assisted â€œmetal-wire-gapâ€•process for N-type two-dimensional organic crystalline films. Organic Electronics, 2019, 68, 176-181.	2.6	1
24	Solutionâ€Processed 2D Molecular Crystals: Fabrication Techniques, Transistor Applications, and Physics. Advanced Materials Technologies, 2019, 4, 1800182.	5.8	53
25	Two-dimensional Organic Materials and Their Electronic Applications. Chemistry Letters, 2019, 48, 14-21.	1.3	4
26	Spin-Coated Crystalline Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. Journal of Physical Chemistry Letters, 2018, 9, 1318-1323.	4.6	37
27	Flexible Pressure Sensor With High Sensitivity and Low Hysteresis Based on a Hierarchically Microstructured Electrode. IEEE Electron Device Letters, 2018, 39, 288-291.	3.9	87
28	Unveiling the piezoelectric nature of polar Î±-phase P(VDF-TrFE) at quasi-two-dimensional limit. Scientific Reports, 2018, 8, 532.	3.3	14
29	Millimeter-Sized Two-Dimensional Molecular Crystalline Semiconductors with Precisely Defined Molecular Layers via Interfacial-Interaction-Modulated Self-Assembly. Journal of Physical Chemistry Letters, 2018, 9, 6755-6760.	4.6	31
30	Temperature dependence of piezo- and ferroelectricity in ultrathin P(VDFâ€“TrFE) films. RSC Advances, 2018, 8, 29164-29171.	3.6	7
31	Interfacial Flat-Lying Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 22513-22519.	8.0	18
32	Speed up Ferroelectric Organic Transistor Memories by Using Two-Dimensional Molecular Crystalline Semiconductors. ACS Applied Materials & Interfaces, 2017, 9, 18127-18133.	8.0	52
33	Generating one-dimensional micro- or nano-structures with in-plane alignment by vapor-driven wetting kinetics. Materials Horizons, 2017, 4, 259-267.	12.2	9
34	Low-voltage, High-performance Organic Field-Effect Transistors Based on 2D Crystalline Molecular Semiconductors. Scientific Reports, 2017, 7, 7830.	3.3	32
35	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. Science Advances, 2017, 3, e1701186.	10.3	146
36	Field-effect transistor memories based on ferroelectric polymers. Journal of Semiconductors, 2017, 38, 111001.	3.7	11

#	Article	IF	Citations
37	Directly writing 2D organic semiconducting crystals for high-performance field-effect transistors. Journal of Materials Chemistry C, 2017, 5, 11246-11251.	5.5	27
38	Segregations and desorptions of Ge atoms in nanocomposite Si 1â^' x Ge x films during high-temperature annealing. Chinese Physics B, 2017, 26, 126801.	1.4	0
39	2D Singleâ€Crystalline Molecular Semiconductors with Precise Layer Definition Achieved by Floatingâ€Coffeeâ€Ringâ€Driven Assembly. Advanced Functional Materials, 2016, 26, 3191-3198.	14.9	136
40	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. Nano Letters, 2016, 16, 3754-3759.	9.1	92
41	High-performance non-volatile field-effect transistor memories using an amorphous oxide semiconductor and ferroelectric polymer. Journal of Materials Chemistry C, 2016, 4, 7917-7923.	5.5	15
42	Probing Carrier Transport and Structure-Property Relationship of Highly Ordered Organic Semiconductors at the Two-Dimensional Limit. Physical Review Letters, 2016, 116, 016602.	7.8	220
43	Evaluation of in vitro and in vivo biocompatibility of a myo-inositol hexakisphosphate gelated polyaniline hydrogel in a rat model. Scientific Reports, 2016, 6, 23931.	3.3	42
44	A van der Waals pn heterojunction with organic/inorganic semiconductors. Applied Physics Letters, 2015, 107, 183103.	3.3	77
45	Reducing contact resistance in ferroelectric organic transistors by buffering the semiconductor/dielectric interface. Applied Physics Letters, 2015, 107, .	3.3	21
46	Spontaneous Ga incorporation in ZnO nanowires epitaxially grown on GaN substrate. Physica Status Solidi - Rapid Research Letters, 2015, 9, 466-469.	2.4	5
47	Structural evolution of Ge-rich Si1â^'xGex films deposited by jet-ICPCVD. AIP Advances, 2015, 5, 117127.	1.3	1
48	Unidirectional coating technology for organic field-effect transistors: materials and methods. Semiconductor Science and Technology, 2015, 30, 054001.	2.0	32
49	Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. Nano Letters, 2015, 15, 7736-7741.	9.1	227
50	Low-voltage organic field-effect transistors based on novel high-Î¹ organometallic lanthanide complex for gate insulating materials. AIP Advances, 2014, 4, .	1.3	6
51	Remarkable reduction in the threshold voltage of pentacene-based thin film transistors with pentacene/CuPc sandwich configuration. AIP Advances, 2014, 4, 067126.	1.3	2
52	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. Nature Communications, 2014, 5, 5162.	12.8	315
53	Large [6,6]-phenyl C61 butyric acid methyl (PCBM) hexagonal crystals grown by solvent-vapor annealing. Materials Chemistry and Physics, 2014, 145, 327-333.	4.0	13
54	Patterning technology for solution-processed organic crystal field-effect transistors. Science and Technology of Advanced Materials, 2014, 15, 024203.	6.1	39

#	Article	IF	Citations
55	Influence of lithium fluoride thickness on electrical switching behavior in a cross-point structure using self-assembly molecules. Japanese Journal of Applied Physics, 2014, 53, 030304.	1.5	0
56	Solution-processed organic crystals written directly with a rollerball pen for field-effect transistors. Organic Electronics, 2014, 15, 2234-2239.	2.6	19
57	Influence of Deposition Pressure on the Film Morphologies, Structures, and Mobilities for Different-Shaped Organic Semiconductors. Journal of Physical Chemistry C, 2014, 118, 14218-14226.	3.1	5
58	Enhancing charge transport in copper phthalocyanine thin film by elevating pressure of deposition chamber. Organic Electronics, 2014, 15, 1799-1804.	2.6	8
59	Boost Up Carrier Mobility for Ferroelectric Organic Transistor Memory via Buffering Interfacial Polarization Fluctuation. Scientific Reports, 2014, 4, 7227.	3.3	67
60	On Practical Charge Injection at the Metal/Organic Semiconductor Interface. Scientific Reports, 2013, 3, 1026.	3.3	71
61	Self-assembly of semiconductor/insulator interfaces in one-step spin-coating: a versatile approach for organic field-effect transistors. Physical Chemistry Chemical Physics, 2013, 15, 7917.	2.8	59
62	In situpurification to eliminate the influence of impurities in solution-processed organic crystals for transistor arrays. Journal of Materials Chemistry C, 2013, 1, 1352-1358.	5.5	37
63	Critical Impact of Gate Dielectric Interfaces on the Contact Resistance of High-Performance Organic Field-Effect Transistors. Journal of Physical Chemistry C, 2013, 117, 12337-12345.	3.1	98
64	Two-dimensional electron gas generated by La-doping at SrTiO3(001) surface: A first-principles study. AIP Advances, 2013, 3, 062116.	1.3	2
65	Joule's law for organic transistors exploration: Case of contact resistance. Journal of Applied Physics, 2013, 113, 064507.	2.5	19
66	Flexible field-effect transistor arrays with patterned solution-processed organic crystals. AIP Advances, 2013, 3, .	1.3	19
67	Surface Selectively Deposited Organic Single-crystal Transistor Arrays with High Device Performance. Molecular Crystals and Liquid Crystals, 2012, 566, 13-17.	0.9	4
68	Metal-diffusion-induced ITO nanoparticles at the organic/ITO interface. Journal Physics D: Applied Physics, 2012, 45, 165104.	2.8	3
69	Charge trapping at organic/self-assembly molecule interfaces studied by electrical switching behaviour in a crosspoint structure. Journal Physics D: Applied Physics, 2012, 45, 025304.	2.8	1
70	Highly enhanced charge injection in thienoacene-based organic field-effect transistors with chemically doped contact. Applied Physics Letters, 2012, 100, .	3.3	130
71	Reduction of charge injection barrier by 1-nm contact oxide interlayer in organic field effect transistors. Applied Physics Letters, 2012, 100, .	3.3	37
72	Direct formation of organic semiconducting single crystals by solvent vapor annealing on a polymer base film. Journal of Materials Chemistry, 2012, 22, 8462.	6.7	55

#	Article	IF	Citations
73	Tunable contact resistance in double-gate organic field-effect transistors. Organic Electronics, 2012, 13, 1583-1588.	2.6	18
74	Controlling the crystal formation in solution-process for organic field-effect transistors with high-performance. Organic Electronics, 2012, 13, 2975-2984.	2.6	17
75	Solution-processed, Self-organized Organic Single Crystal Arrays with Controlled Crystal Orientation. Scientific Reports, 2012, 2, 393.	3.3	87
76	Large plate-like organic crystals from direct spin-coating for solution-processed field-effect transistor arrays with high uniformity. Organic Electronics, 2012, 13, 264-272.	2.6	69
77	Solution-processed organic crystals for field-effect transistor arrays with smooth semiconductor/dielectric interface on paper substrates. Organic Electronics, 2012, 13, 815-819.	2.6	65
78	Forming semiconductor/dielectric double layers by one-step spin-coating for enhancing the performance of organic field-effect transistors. Organic Electronics, 2012, 13, 1146-1151.	2.6	39
79	Patterning solution-processed organic single-crystal transistors with high device performance. AIP Advances, 2011, 1, .	1.3	45
80	Electrical switching behavior from all-polymer-based system of semiconductor/ferroelectrics/semiconductor. Applied Physics Letters, 2011, 98, 173306.	3.3	9
81	Electrical switching behavior from ultrathin potential barrier of self-assembly molecules tuned by interfacial charge trapping. Applied Physics Letters, 2010, 96, .	3.3	15
82	Conducting Polymer Nanostructures: Template Synthesis and Applications in Energy Storage. International Journal of Molecular Sciences, 2010, 11, 2636-2657.	4.1	309
83	High-Performance Solution-Deposited Ambipolar Organic Transistors Based on Terrylene Diimides. Chemistry of Materials, 2010, 22, 2120-2124.	6.7	69
84	Self-assembly of Polyaniline: Mechanism Study. Chinese Journal of Chemical Physics, 2008, 21, 187-192.	1.3	9
85	Formation of SnO<inf>x</inf> nanoparticles at the AlDCN/ITO interface in organic cross-point memory devices. , 2008, , .		0