

Yun Li

List of Publications by Year in descending order

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85
papers

3,674
citations

136950

32
h-index

133252

59
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86
all docs

86
docs citations

86
times ranked

4673
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. <i>Nature Communications</i> , 2014, 5, 5162.	12.8	315
2	Conducting Polymer Nanostructures: Template Synthesis and Applications in Energy Storage. <i>International Journal of Molecular Sciences</i> , 2010, 11, 2636-2657.	4.1	309
3	Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. <i>Nano Letters</i> , 2015, 15, 7736-7741.	9.1	227
4	Probing Carrier Transport and Structure-Property Relationship of Highly Ordered Organic Semiconductors at the Two-Dimensional Limit. <i>Physical Review Letters</i> , 2016, 116, 016602.	7.8	220
5	Advanced electronic skin devices for healthcare applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 173-197.	5.8	193
6	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. <i>Science Advances</i> , 2017, 3, e1701186.	10.3	146
7	2D Single-Crystalline Molecular Semiconductors with Precise Layer Definition Achieved by Floating-Coffee-Ring-Driven Assembly. <i>Advanced Functional Materials</i> , 2016, 26, 3191-3198.	14.9	136
8	Highly enhanced charge injection in thienoacene-based organic field-effect transistors with chemically doped contact. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	130
9	Critical Impact of Gate Dielectric Interfaces on the Contact Resistance of High-Performance Organic Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12337-12345.	3.1	98
10	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. <i>Nano Letters</i> , 2016, 16, 3754-3759.	9.1	92
11	Solution-processed, Self-organized Organic Single Crystal Arrays with Controlled Crystal Orientation. <i>Scientific Reports</i> , 2012, 2, 393.	3.3	87
12	Flexible Pressure Sensor With High Sensitivity and Low Hysteresis Based on a Hierarchically Microstructured Electrode. <i>IEEE Electron Device Letters</i> , 2018, 39, 288-291.	3.9	87
13	A van der Waals pn heterojunction with organic/inorganic semiconductors. <i>Applied Physics Letters</i> , 2015, 107, 183103.	3.3	77
14	On Practical Charge Injection at the Metal/Organic Semiconductor Interface. <i>Scientific Reports</i> , 2013, 3, 1026.	3.3	71
15	High-Performance Solution-Deposited Ambipolar Organic Transistors Based on Terrylene Diimides. <i>Chemistry of Materials</i> , 2010, 22, 2120-2124.	6.7	69
16	Large plate-like organic crystals from direct spin-coating for solution-processed field-effect transistor arrays with high uniformity. <i>Organic Electronics</i> , 2012, 13, 264-272.	2.6	69
17	Boost Up Carrier Mobility for Ferroelectric Organic Transistor Memory via Buffering Interfacial Polarization Fluctuation. <i>Scientific Reports</i> , 2014, 4, 7227.	3.3	67
18	Solution-processed organic crystals for field-effect transistor arrays with smooth semiconductor/dielectric interface on paper substrates. <i>Organic Electronics</i> , 2012, 13, 815-819.	2.6	65

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19	Self-assembly of semiconductor/insulator interfaces in one-step spin-coating: a versatile approach for organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 7917.	2.8	59
20	Direct formation of organic semiconducting single crystals by solvent vapor annealing on a polymer base film. <i>Journal of Materials Chemistry</i> , 2012, 22, 8462.	6.7	55
21	Solution-Processed 2D Molecular Crystals: Fabrication Techniques, Transistor Applications, and Physics. <i>Advanced Materials Technologies</i> , 2019, 4, 1800182.	5.8	53
22	Speed up Ferroelectric Organic Transistor Memories by Using Two-Dimensional Molecular Crystalline Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18127-18133.	8.0	52
23	An Optically Modulated Organic Schottky-Barrier Planar-Diode-Based Artificial Synapse. <i>Advanced Optical Materials</i> , 2020, 8, 2000153.	7.3	52
24	Patterning solution-processed organic single-crystal transistors with high device performance. <i>AIP Advances</i> , 2011, 1, .	1.3	45
25	Evaluation of in vitro and in vivo biocompatibility of a myo-inositol hexakisphosphate gelled polyaniline hydrogel in a rat model. <i>Scientific Reports</i> , 2016, 6, 23931.	3.3	42
26	Retina-Inspired Self-Powered Artificial Optoelectronic Synapses with Selective Detection in Organic Asymmetric Heterojunctions. <i>Advanced Science</i> , 2022, 9, e2103494.	11.2	40
27	Forming semiconductor/dielectric double layers by one-step spin-coating for enhancing the performance of organic field-effect transistors. <i>Organic Electronics</i> , 2012, 13, 1146-1151.	2.6	39
28	Patterning technology for solution-processed organic crystal field-effect transistors. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 024203.	6.1	39
29	Reduction of charge injection barrier by 1-nm contact oxide interlayer in organic field effect transistors. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	37
30	In situ purification to eliminate the influence of impurities in solution-processed organic crystals for transistor arrays. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1352-1358.	5.5	37
31	Spin-Coated Crystalline Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1318-1323.	4.6	37
32	Precise Extraction of Charge Carrier Mobility for Organic Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 1904508.	14.9	34
33	Unidirectional coating technology for organic field-effect transistors: materials and methods. <i>Semiconductor Science and Technology</i> , 2015, 30, 054001.	2.0	32
34	Low-voltage, High-performance Organic Field-Effect Transistors Based on 2D Crystalline Molecular Semiconductors. <i>Scientific Reports</i> , 2017, 7, 7830.	3.3	32
35	Millimeter-Sized Two-Dimensional Molecular Crystalline Semiconductors with Precisely Defined Molecular Layers via Interfacial-Interaction-Modulated Self-Assembly. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6755-6760.	4.6	31
36	pJ-Level Energy-Consuming, Low-Voltage Ferroelectric Organic Field-Effect Transistor Memories. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2335-2340.	4.6	30

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37	Directly writing 2D organic semiconducting crystals for high-performance field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11246-11251.	5.5	27
38	Fabrication of Two-Dimensional Crystalline Organic Films by Tilted Spin Coating for High-Performance Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7226-7234.	8.0	24
39	Low-power-consumption organic field-effect transistors. <i>JPhys Materials</i> , 2020, 3, 014009.	4.2	22
40	Few-Layer Organic Crystalline van der Waals Heterojunctions for Ultrafast UV Phototransistors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000062.	5.1	22
41	Reducing contact resistance in ferroelectric organic transistors by buffering the semiconductor/dielectric interface. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	21
42	Joule's law for organic transistors exploration: Case of contact resistance. <i>Journal of Applied Physics</i> , 2013, 113, 064507.	2.5	19
43	Flexible field-effect transistor arrays with patterned solution-processed organic crystals. <i>AIP Advances</i> , 2013, 3, .	1.3	19
44	Solution-processed organic crystals written directly with a rollerball pen for field-effect transistors. <i>Organic Electronics</i> , 2014, 15, 2234-2239.	2.6	19
45	Role of Schottky Barrier and Access Resistance in Organic Field-Effect Transistors. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1466-1472.	4.6	19
46	Tunable contact resistance in double-gate organic field-effect transistors. <i>Organic Electronics</i> , 2012, 13, 1583-1588.	2.6	18
47	Interfacial Flat-Lying Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22513-22519.	8.0	18
48	Controlling the crystal formation in solution-process for organic field-effect transistors with high-performance. <i>Organic Electronics</i> , 2012, 13, 2975-2984.	2.6	17
49	Electrical switching behavior from ultrathin potential barrier of self-assembly molecules tuned by interfacial charge trapping. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	15
50	High-performance non-volatile field-effect transistor memories using an amorphous oxide semiconductor and ferroelectric polymer. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7917-7923.	5.5	15
51	Unveiling the piezoelectric nature of polar $\hat{\pm}$ -phase P(VDF-TrFE) at quasi-two-dimensional limit. <i>Scientific Reports</i> , 2018, 8, 532.	3.3	14
52	Large [6,6]-phenyl C61 butyric acid methyl (PCBM) hexagonal crystals grown by solvent-vapor annealing. <i>Materials Chemistry and Physics</i> , 2014, 145, 327-333.	4.0	13
53	Field-effect transistor memories based on ferroelectric polymers. <i>Journal of Semiconductors</i> , 2017, 38, 111001.	3.7	11
54	Self-assembly of Polyaniline: Mechanism Study. <i>Chinese Journal of Chemical Physics</i> , 2008, 21, 187-192.	1.3	9

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55	Electrical switching behavior from all-polymer-based system of semiconductor/ferroelectrics/semiconductor. <i>Applied Physics Letters</i> , 2011, 98, 173306.	3.3	9
56	Generating one-dimensional micro- or nano-structures with in-plane alignment by vapor-driven wetting kinetics. <i>Materials Horizons</i> , 2017, 4, 259-267.	12.2	9
57	Device Based on Polymer Schottky Junctions and Their Applications: A Review. <i>IEEE Access</i> , 2020, 8, 189646-189660.	4.2	9
58	Semiconductor/dielectric interface in organic field-effect transistors: charge transport, interfacial effects, and perspectives with 2D molecular crystals. <i>Advances in Physics: X</i> , 2020, 5, 1747945.	4.1	9
59	Molecular-Layer-Defined Asymmetric Schottky Contacts in Organic Planar Diodes for Self-Powered Optoelectronic Synapses. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2338-2347.	4.6	9
60	A Smarter Pavlovian Dog with Optically Modulated Associative Learning in an Organic Ferroelectric Neuromem. <i>Research</i> , 2021, 2021, 9820502.	5.7	9
61	Enhancing charge transport in copper phthalocyanine thin film by elevating pressure of deposition chamber. <i>Organic Electronics</i> , 2014, 15, 1799-1804.	2.6	8
62	Temperature dependence of piezo- and ferroelectricity in ultrathin P(VDF/TrFE) films. <i>RSC Advances</i> , 2018, 8, 29164-29171.	3.6	7
63	Patterning 2D Organic Crystalline Semiconductors via Thermally Induced Self-Assembly. <i>Advanced Electronic Materials</i> , 2020, 6, 2000438.	5.1	7
64	Probing Coulomb Interactions on Charge Transport in Few-Layer Organic Crystalline Semiconductors by the Gated van der Pauw Method. <i>Advanced Electronic Materials</i> , 2020, 6, 2000136.	5.1	7
65	Low-voltage organic field-effect transistors based on novel high- β organometallic lanthanide complex for gate insulating materials. <i>AIP Advances</i> , 2014, 4, .	1.3	6
66	Molecular Layer-Defined Transition of Carrier Distribution and Correlation with Transport in Organic Crystalline Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26267-26275.	8.0	6
67	In-situ/operando characterization techniques for organic semiconductors and devices. <i>Journal of Semiconductors</i> , 2022, 43, 041101.	3.7	6
68	Influence of Deposition Pressure on the Film Morphologies, Structures, and Mobilities for Different-Shaped Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14218-14226.	3.1	5
69	Spontaneous Ga incorporation in ZnO nanowires epitaxially grown on GaN substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015, 9, 466-469.	2.4	5
70	Effect of access resistance on the experimentally measured temperature-carrier mobility dependence in highly-crystalline DNNT-based transistors. <i>Materials Advances</i> , 2020, 1, 1799-1804.	5.4	5
71	Approaching isotropic transfer integrals in crystalline organic semiconductors. <i>Physical Review Materials</i> , 2020, 4, .	2.4	5
72	Emerging Logic Devices beyond CMOS. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1914-1924.	4.6	5

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73	Surface Selectively Deposited Organic Single-crystal Transistor Arrays with High Device Performance. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 566, 13-17.	0.9	4
74	Two-dimensional Organic Materials and Their Electronic Applications. <i>Chemistry Letters</i> , 2019, 48, 14-21.	1.3	4
75	Metal-diffusion-induced ITO nanoparticles at the organic/ITO interface. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 165104.	2.8	3
76	Two-dimensional electron gas generated by La-doping at SrTiO ₃ (001) surface: A first-principles study. <i>AIP Advances</i> , 2013, 3, 062116.	1.3	2
77	Remarkable reduction in the threshold voltage of pentacene-based thin film transistors with pentacene/CuPc sandwich configuration. <i>AIP Advances</i> , 2014, 4, 067126.	1.3	2
78	Solution-processed organic single-crystalline semiconductors with a fence-like shape via ultrasound concussion. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2589-2593.	5.5	2
79	Asymmetric electrode geometry induced photovoltaic behavior for self-powered organic artificial synapses. <i>Flexible and Printed Electronics</i> , 2021, 6, 044009.	2.7	2
80	Charge trapping at organic/self-assembly molecule interfaces studied by electrical switching behaviour in a crosspoint structure. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 025304.	2.8	1
81	Structural evolution of Ge-rich Si _{1-x} Ge _x films deposited by jet-ICPCVD. <i>AIP Advances</i> , 2015, 5, 117127.	1.3	1
82	Additive-assisted "metal-wire-gap" process for N-type two-dimensional organic crystalline films. <i>Organic Electronics</i> , 2019, 68, 176-181.	2.6	1
83	Formation of SnO _x nanoparticles at the AICN/ITO interface in organic cross-point memory devices. , 2008, , .		0
84	Influence of lithium fluoride thickness on electrical switching behavior in a cross-point structure using self-assembly molecules. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 030304.	1.5	0
85	Segregations and desorptions of Ge atoms in nanocomposite Si _{1-x} Ge _x films during high-temperature annealing. <i>Chinese Physics B</i> , 2017, 26, 126801.	1.4	0