Qijing Wang

List of Publications by Year
in descending order

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		236925	175258
62	2,791	25	52
papers	citations	h-index	g-index

66	66	66	3875
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reduction of lead leakage from damaged lead halide perovskite solar modules using self-healing polymer-based encapsulation. Nature Energy, 2019, 4, 585-593.	39.5	327
2	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. Nature Communications, 2014, 5, 5162.	12.8	315
3	Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. Nano Letters, 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. Physical Review Letters, 2016, 116, 016602.	7.8	220
5	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. Science Advances, 2017, 3, e1701186.	10.3	146
6	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
7	Highly enhanced charge injection in thienoacene-based organic field-effect transistors with chemically doped contact. Applied Physics Letters, 2012, 100, .	3.3	130
8	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
9	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
10	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
11	On Practical Charge Injection at the Metal/Organic Semiconductor Interface. Scientific Reports, 2013, 3, 1026.	3.3	71
12	Boost Up Carrier Mobility for Ferroelectric Organic Transistor Memory via Buffering Interfacial Polarization Fluctuation. Scientific Reports, 2014, 4, 7227.	3.3	67
13	Solutionâ€Processed 2D Molecular Crystals: Fabrication Techniques, Transistor Applications, and Physics. Advanced Materials Technologies, 2019, 4, 1800182.	5.8	53
14	Speed up Ferroelectric Organic Transistor Memories by Using Two-Dimensional Molecular Crystalline Semiconductors. ACS Applied Materials & Interfaces, 2017, 9, 18127-18133.	8.0	52
15	An Optically Modulated Organic Schottkyâ€Barrier Planarâ€Diodeâ€Based Artificial Synapse. Advanced Optical Materials, 2020, 8, 2000153.	7.3	52
16	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
17	Retinaâ€Inspired Selfâ€Powered Artificial Optoelectronic Synapses with Selective Detection in Organic Asymmetric Heterojunctions. Advanced Science, 2022, 9, e2103494.	11.2	40
18	Anisotropy of Charge Transport in a Uniaxially Aligned Fused Electronâ€Deficient Polymer Processed by Solution Shear Coating. Advanced Materials, 2020, 32, e2000063.	21.0	38

#	Article	IF	Citations
19	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
20	Precise Extraction of Charge Carrier Mobility for Organic Transistors. Advanced Functional Materials, 2020, 30, 1904508.	14.9	34
21	Unidirectional coating technology for organic field-effect transistors: materials and methods. Semiconductor Science and Technology, 2015, 30, 054001.	2.0	32
22	Low-voltage, High-performance Organic Field-Effect Transistors Based on 2D Crystalline Molecular Semiconductors. Scientific Reports, 2017, 7, 7830.	3.3	32
23	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
24	pJ-Level Energy-Consuming, Low-Voltage Ferroelectric Organic Field-Effect Transistor Memories. Journal of Physical Chemistry Letters, 2019, 10, 2335-2340.	4.6	30
25	Directly writing 2D organic semiconducting crystals for high-performance field-effect transistors. Journal of Materials Chemistry C, 2017, 5, 11246-11251.	5.5	27
26	Linking Glassâ€Transition Behavior to Photophysical and Charge Transport Properties of Highâ€Mobility Conjugated Polymers. Advanced Functional Materials, 2021, 31, 2007359.	14.9	26
27	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
28	Low-power-consumption organic field-effect transistors. JPhys Materials, 2020, 3, 014009.	4.2	22
29	Fewâ€Layer Organic Crystalline van der Waals Heterojunctions for Ultrafast UV Phototransistors. Advanced Electronic Materials, 2020, 6, 2000062.	5.1	22
30	Reducing contact resistance in ferroelectric organic transistors by buffering the semiconductor/dielectric interface. Applied Physics Letters, 2015, 107, .	3.3	21
31	Joule's law for organic transistors exploration: Case of contact resistance. Journal of Applied Physics, 2013, 113, 064507.	2.5	19
32	Solution-processed organic crystals written directly with a rollerball pen for field-effect transistors. Organic Electronics, 2014, 15, 2234-2239.	2.6	19
33	Role of Schottky Barrier and Access Resistance in Organic Field-Effect Transistors. Journal of Physical Chemistry Letters, 2020, 11, 1466-1472.	4.6	19
34	Growth of Black Phosphorus Nanobelts and Microbelts. Small, 2018, 14, 1702501.	10.0	18
35	Interfacial Flat-Lying Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 22513-22519.	8.0	18
36	Electrical switching behavior from ultrathin potential barrier of self-assembly molecules tuned by interfacial charge trapping. Applied Physics Letters, 2010, 96, .	3.3	15

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37	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
38	Unveiling the piezoelectric nature of polar Î±-phase P(VDF-TrFE) at quasi-two-dimensional limit. Scientific Reports, 2018, 8, 532.	3.3	14
39	Device Based on Polymer Schottky Junctions and Their Applications: A Review. IEEE Access, 2020, 8, 189646-189660.	4.2	9
40	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
41	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
42	A Smarter Pavlovian Dog with Optically Modulated Associative Learning in an Organic Ferroelectric Neuromem. Research, 2021, 2021, 9820502.	5.7	9
43	Temperature dependence of piezo- and ferroelectricity in ultrathin P(VDFâ€“TrFE) films. RSC Advances, 2018, 8, 29164-29171.	3.6	7
44	Patterning 2D Organic Crystalline Semiconductors via Thermally Induced Selfâ€Assembly. Advanced Electronic Materials, 2020, 6, 2000438.	5.1	7
45	Nonequilibrium phonon tuning and mapping in few-layer graphene with infrared nanoscopy. Physical Review B, 2021, 103, .	3.2	7
46	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
47	Low-voltage organic field-effect transistors based on novel high-Î² organometallic lanthanide complex for gate insulating materials. AIP Advances, 2014, 4, .	1.3	6
48	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
49	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
50	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
51	Approaching isotropic transfer integrals in crystalline organic semiconductors. Physical Review Materials, 2020, 4, .	2.4	5
52	Emerging Logic Devices beyond CMOS. Journal of Physical Chemistry Letters, 2022, 13, 1914-1924.	4.6	5
53	Boosting Hot-Electron Extraction Through Deep Groove Perfect Absorber for Si-Based Photodetector. IEEE Photonics Technology Letters, 2017, 29, 1884-1887.	2.5	4
54	Two-dimensional Organic Materials and Their Electronic Applications. Chemistry Letters, 2019, 48, 14-21.	1.3	4

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55	Efficient interâ€carrier interference cancellation transmissions for cooperative networks with frequency offsets. IET Communications, 2016, 10, 2575-2581.	2.2	3
56	36.1: Invited Paper: Solutionâ€Processed 2D Organic Crystals for Transistor Applications. Digest of Technical Papers SID International Symposium, 2019, 50, 400-400.	0.3	3
57	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
58	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
59	Asymmetric electrode geometry induced photovoltaic behavior for self-powered organic artificial synapses. Flexible and Printed Electronics, 2021, 6, 044009.	2.7	2
60	Additive-assisted â€œmetal-wire-gapâ€•process for N-type two-dimensional organic crystalline films. Organic Electronics, 2019, 68, 176-181.	2.6	1
61	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
62	A novel frequency reversal transmission for cooperative networks with frequency offsets. , 2016, , .		0