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	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	Linking Glassâ€Transition Behavior to Photophysical and Charge Transport Properties of Highâ€Mobility Conjugated Polymers. Advanced Functional Materials, 2021, 31, 2007359.	14.9	26
5	Nonequilibrium phonon tuning and mapping in few-layer graphene with infrared nanoscopy. Physical Review B, 2021, 103, .	3.2	7
6	A Smarter Pavlovian Dog with Optically Modulated Associative Learning in an Organic Ferroelectric Neuromem. Research, 2021, 2021, 9820502.	5.7	9
7	Asymmetric electrode geometry induced photovoltaic behavior for self-powered organic artificial synapses. Flexible and Printed Electronics, 2021, 6, 044009.	2.7	2
8	Precise Extraction of Charge Carrier Mobility for Organic Transistors. Advanced Functional Materials, 2020, 30, 1904508.	14.9	34
9	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
10	Low-power-consumption organic field-effect transistors. JPhys Materials, 2020, 3, 014009.	4.2	22
11	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
12	Device Based on Polymer Schottky Junctions and Their Applications: A Review. IEEE Access, 2020, 8, 189646-189660.	4.2	9
13	Patterning 2D Organic Crystalline Semiconductors via Thermally Induced Selfâ€Assembly. Advanced Electronic Materials, 2020, 6, 2000438.	5.1	7
14	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
15	An Optically Modulated Organic Schottkyâ€Barrier Planarâ€Diodeâ€Based Artificial Synapse. Advanced Optical Materials, 2020, 8, 2000153.	7.3	52
16	Fewâ€Layer Organic Crystalline van der Waals Heterojunctions for Ultrafast UV Phototransistors. Advanced Electronic Materials, 2020, 6, 2000062.	5.1	22
17	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
18	Role of Schottky Barrier and Access Resistance in Organic Field-Effect Transistors. Journal of Physical Chemistry Letters, 2020, 11, 1466-1472.	4.6	19

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19	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
20	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
21	Approaching isotropic transfer integrals in crystalline organic semiconductors. Physical Review Materials, 2020, 4, .	2.4	5
22	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
23	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
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	Additive-assisted â€œmetal-wire-gapâ€•process for N-type two-dimensional organic crystalline films. Organic Electronics, 2019, 68, 176-181.	2.6	1
26	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
27	Solutionâ€Processed 2D Molecular Crystals: Fabrication Techniques, Transistor Applications, and Physics. Advanced Materials Technologies, 2019, 4, 1800182.	5.8	53
28	Two-dimensional Organic Materials and Their Electronic Applications. Chemistry Letters, 2019, 48, 14-21.	1.3	4
29	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
30	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
31	Unveiling the piezoelectric nature of polar Î±-phase P(VDF-TrFE) at quasi-two-dimensional limit. Scientific Reports, 2018, 8, 532.	3.3	14
32	Growth of Black Phosphorus Nanobelts and Microbelts. Small, 2018, 14, 1702501.	10.0	18
33	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
34	Temperature dependence of piezo- and ferroelectricity in ultrathin P(VDFâ€“TrFE) films. RSC Advances, 2018, 8, 29164-29171.	3.6	7
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	Speed up Ferroelectric Organic Transistor Memories by Using Two-Dimensional Molecular Crystalline Semiconductors. ACS Applied Materials & Interfaces, 2017, 9, 18127-18133.	8.0	52

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37	Low-voltage, High-performance Organic Field-Effect Transistors Based on 2D Crystalline Molecular Semiconductors. Scientific Reports, 2017, 7, 7830.	3.3	32
38	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. Science Advances, 2017, 3, e1701186.	10.3	146
39	Directly writing 2D organic semiconducting crystals for high-performance field-effect transistors. Journal of Materials Chemistry C, 2017, 5, 11246-11251.	5.5	27
40	Boosting Hot-Electron Extraction Through Deep Groove Perfect Absorber for Si-Based Photodetector. IEEE Photonics Technology Letters, 2017, 29, 1884-1887.	2.5	4
41	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
42	A novel frequency reversal transmission for cooperative networks with frequency offsets. , 2016, , .		0
43	Efficient interâ€carrier interference cancellation transmissions for cooperative networks with frequency offsets. IET Communications, 2016, 10, 2575-2581.	2.2	3
44	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
45	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
46	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
47	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
48	Reducing contact resistance in ferroelectric organic transistors by buffering the semiconductor/dielectric interface. Applied Physics Letters, 2015, 107, .	3.3	21
49	Unidirectional coating technology for organic field-effect transistors: materials and methods. Semiconductor Science and Technology, 2015, 30, 054001.	2.0	32
50	Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. Nano Letters, 2015, 15, 7736-7741.	9.1	227
51	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
52	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
53	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. Nature Communications, 2014, 5, 5162.	12.8	315
54	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

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55	Solution-processed organic crystals written directly with a rollerball pen for field-effect transistors. Organic Electronics, 2014, 15, 2234-2239.	2.6	19
56	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
57	Boost Up Carrier Mobility for Ferroelectric Organic Transistor Memory via Buffering Interfacial Polarization Fluctuation. Scientific Reports, 2014, 4, 7227.	3.3	67
58	On Practical Charge Injection at the Metal/Organic Semiconductor Interface. Scientific Reports, 2013, 3, 1026.	3.3	71
59	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
60	Joule's law for organic transistors exploration: Case of contact resistance. Journal of Applied Physics, 2013, 113, 064507.	2.5	19
61	Highly enhanced charge injection in thienoacene-based organic field-effect transistors with chemically doped contact. Applied Physics Letters, 2012, 100, .	3.3	130
62	Electrical switching behavior from ultrathin potential barrier of self-assembly molecules tuned by interfacial charge trapping. Applied Physics Letters, 2010, 96, .	3.3	15