

Yuanyuan Hu

List of Publications by Citations

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39
papers

1,022
citations

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h-index

31
g-index

42
ext. papers

1,306
ext. citations

11.7
avg, IF

4.43
L-index

#	Paper	IF	Citations
39	Ultrathin film organic transistors: precise control of semiconductor thickness via spin-coating. <i>Advanced Materials</i> , 2013 , 25, 1401-7	24	187
38	Remarkable enhancement of charge carrier mobility of conjugated polymer field-effect transistors upon incorporating an ionic additive. <i>Science Advances</i> , 2016 , 2, e1600076	14.3	115
37	Bottom-up growth of n-type monolayer molecular crystals on polymeric substrate for optoelectronic device applications. <i>Nature Communications</i> , 2018 , 9, 2933	17.4	88
36	Investigation of Electrode Electrochemical Reactions in CH ₃ NH ₃ PbBr Perovskite Single-Crystal Field-Effect Transistors. <i>Advanced Materials</i> , 2019 , 31, e1902618	24	48
35	Doping Polymer Semiconductors by Organic Salts: Toward High-Performance Solution-Processed Organic Field-Effect Transistors. <i>ACS Nano</i> , 2018 , 12, 3938-3946	16.7	40
34	Self-powered high-sensitivity sensory memory actuated by triboelectric sensory receptor for real-time neuromorphic computing. <i>Nano Energy</i> , 2020 , 75, 104930	17.1	38
33	Relieving the Photosensitivity of Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2020 , 32, e1906122	24	34
32	Self-powered artificial auditory pathway for intelligent neuromorphic computing and sound detection. <i>Nano Energy</i> , 2020 , 78, 105403	17.1	34
31	Artificial multisensory integration nervous system with haptic and iconic perception behaviors. <i>Nano Energy</i> , 2021 , 85, 106000	17.1	31
30	Scanning Kelvin Probe Microscopy Investigation of the Role of Minority Carriers on the Switching Characteristics of Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2016 , 28, 4713-9	24	30
29	Controllable growth of C8-BTBT single crystalline microribbon arrays by a limited solvent vapor-assisted crystallization (LSVC) method. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2419-2423	7.1	29
28	Influence of different dielectrics on the first layer grain sizes and its effect on the mobility of pentacene-based thin-film transistors. <i>Applied Physics Letters</i> , 2010 , 96, 133311	3.4	29
27	2D Ruddlesden-Popper Perovskite Single Crystal Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2021 , 31, 2005662	15.6	28
26	Fabrication of ultra-flexible, ultra-thin organic field-effect transistors and circuits by a peeling-off method. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1260-1263	7.1	26
25	Nanoscale channel organic ferroelectric synaptic transistor array for high recognition accuracy neuromorphic computing. <i>Nano Energy</i> , 2021 , 85, 106010	17.1	26
24	Doping High-Mobility Donor-Acceptor Copolymer Semiconductors with an Organic Salt for High-Performance Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900945	6.4	22
23	Realizing low-voltage operating crystalline monolayer organic field-effect transistors with a low contact resistance. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3436-3442	7.1	21

22	Sub-5 nm single crystalline organic p-n heterojunctions. <i>Nature Communications</i> , 2021 , 12, 2774	17.4	20
21	Comparing the Gate Dependence of Contact Resistance and Channel Resistance in Organic Field-Effect Transistors for Understanding the Mobility Overestimation Issue. <i>IEEE Electron Device Letters</i> , 2018 , 39, 421-423	4.4	17
20	Recent developments in fabrication and performance of metal halide perovskite field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16691-16715	7.1	17
19	Effect of molecular asymmetry on the charge transport physics of high mobility n-type molecular semiconductors investigated by scanning Kelvin probe microscopy. <i>ACS Nano</i> , 2014 , 8, 6778-87	16.7	15
18	Flexible Monolayer Molecular Crystal-Field Effect Transistors for Ultrasensitive and Selective Detection of Dimethoate. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000579	6.4	15
17	Effect of Alkyl-Chain Length on Charge Transport Properties of Organic Semiconductors and Organic Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800175	6.4	14
16	Effect of Backbone Fluorine and Chlorine Substitution on Charge-Transport Properties of Naphthalenediimide-Based Polymer Semiconductors. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901241	6.4	12
15	Charge Transport Model Based on Single-Layered Grains and Grain Boundaries for Polycrystalline Pentacene Thin-Film Transistors. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23568-23573	3.8	12
14	Understanding the Device Physics in Polymer-Based Ionic-Organic Ratchets. <i>Advanced Materials</i> , 2017 , 29, 1606464	24	11
13	Low-Cost Nucleophilic Organic Bases as n-Dopants for Organic Field-Effect Transistors and Thermoelectric Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2102768	15.6	10
12	Microfluidic solution-processed organic and perovskite nanowires fabricated for field-effect transistors and photodetectors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2353-2362	7.1	9
11	Effect of contact resistance in organic field-effect transistors. <i>Nano Select</i> , 2021 , 2, 1661-1681	3.1	6
10	Correlation of Molecular Structure and Charge Transport Properties: A Case Study in Naphthalenediimide-Based Copolymer Semiconductors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800203	6.4	6
9	Bi-mode electrolyte-gated synaptic transistor additional ion doping and its application to artificial nociceptors. <i>Materials Horizons</i> , 2021 , 8, 2797-2807	14.4	5
8	Pursuing High-Performance Organic Field-Effect Transistors through Organic Salt Doping. <i>Advanced Functional Materials</i> , 2111285	15.6	4
7	An organic synaptic transistor with integration of memory and neuromorphic computing. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 9972-9981	7.1	3
6	Revealing Charge Transport and Device Operations of Organic Ambipolar Transistors and Inverters by Four-Probe Measurement. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001134	6.4	2
5	Doped Vertical Organic Field-Effect Transistors Demonstrating Superior Bias-Stress Stability. <i>Small</i> , 2021 , 17, e2101325	11	2

4	Doping of Sn-based two-dimensional perovskite semiconductor for high-performance field-effect transistors and thermoelectric devices.. <i>IScience</i> , 2022 , 25, 104109	6.1	2
3	Tuning the Electrical Performance of 2D Perovskite Field-Effect Transistors by Forming Organic Semiconductor/Perovskite van der Waals Heterojunctions. <i>Advanced Electronic Materials</i> ,2200148	6.4	2
2	Low-voltage solution-processed artificial optoelectronic hybrid-integrated neuron based on 2D MXene for multi-task spiking neural network. <i>Nano Energy</i> , 2022 , 99, 107418	17.1	2
1	36.2: Invited Paper: Doing Organic Semiconductors for High-Performance Organic Field-Effect Transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 401-401	0.5	