Xiaochen Ren

List of Publications by Year
in descending order

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32 papers	2,233 citations	430754 18 h-index	414303 32 g-index
33 all docs	33 docs citations	33 times ranked	3485 citing authors

#	Article	IF	Citations
1	Organic crystalline materials in flexible electronics. Chemical Society Reviews, 2019, 48, 1492-1530.	18.7	314
2	2D Organic Materials for Optoelectronic Applications. Advanced Materials, 2018, 30, 1702415.	11.1	266
3	A Lowâ€Operatingâ€Power and Flexible Activeâ€Matrix Organicâ€Transistor Temperatureâ€Sensor Array. Advanced Materials, 2016, 28, 4832-4838.	11.1	265
4	High Sensitivity, Wearable, Piezoresistive Pressure Sensors Based on Irregular Microhump Structures and Its Applications in Body Motion Sensing. Small, 2016, 12, 3827-3836.	5.2	177
5	Nâ€Type 2D Organic Single Crystals for Highâ€Performance Organic Fieldâ€Effect Transistors and Nearâ€Infrared Phototransistors. Advanced Materials, 2018, 30, e1706260.	11.1	145
6	Molecular cocrystals: design, charge-transfer and optoelectronic functionality. Physical Chemistry Chemical Physics, 2018, 20, 6009-6023.	1.3	143
7	High performance organic transistor active-matrix driver developed on paper substrate. Scientific Reports, 2014, 4, 6430.	1.6	110
8	Solutionâ€Processed Centimeterâ€Scale Highly Aligned Organic Crystalline Arrays for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Materials, 2020, 32, e1908388.	11.1	99
9	Organic Fieldâ€Effect Transistor for Energyâ€Related Applications: Lowâ€Powerâ€Consumption Devices, Nearâ€Infrared Phototransistors, and Organic Thermoelectric Devices. Advanced Energy Materials, 2018, 8, 1801003.	10.2	95
10	Scalable Fabrication of Highly Crystalline Organic Semiconductor Thin Film by Channelâ€Restricted Screen Printing toward the Lowâ€Cost Fabrication of Highâ€Performance Transistor Arrays. Advanced Materials, 2019, 31, e1807975.	11.1	93
11	A Highâ€Performance Optical Memory Array Based on Inhomogeneity of Organic Semiconductors. Advanced Materials, 2018, 30, e1706647.	11.1	84
12	High Dynamic Range Organic Temperature Sensor. Advanced Materials, 2013, 25, 1291-1295.	11.1	68
13	Highly Sensitive Metabolite Biosensor Based on Organic Electrochemical Transistor Integrated with Microfluidic Channel and Poly(Nâ€vinylâ€2â€pyrrolidone)â€Capped Platinum Nanoparticles. Advanced Materials Technologies, 2016, 1, 1600042.	3.0	68
14	Low-Voltage Organic Single-Crystal Field-Effect Transistor with Steep Subthreshold Slope. ACS Applied Materials & Interfaces, 2018, 10, 25871-25877.	4.0	50
15	Direct Patterning of Selfâ€Assembled Monolayers by Stamp Printing Method and Applications in High Performance Organic Fieldâ€Effect Transistors and Complementary Inverters. Advanced Functional Materials, 2015, 25, 6112-6121.	7.8	43
16	Freeâ€Standing 2D Hexagonal Aluminum Nitride Dielectric Crystals for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Materials, 2018, 30, e1801891.	11.1	32
17	Fine-tune chiroptical activity in discrete chiral Au nanorods. Nano Research, 2022, 15, 6574-6581.	5.8	30
18	High-resolution organic field-effect transistors manufactured by electrohydrodynamic inkjet printing of doped electrodes. Journal of Materials Chemistry C, 2020, 8, 15219-15223.	2.7	23

#	Article	IF	Citations
19	A UV-ozone treated amorphous bariumâ€“strontium titanate dielectric thin film for low driving voltage flexible organic transistors. Journal of Materials Chemistry C, 2013, 1, 3825.	2.7	18
20	Fully transparent organic transistors with junction-free metallic network electrodes. Applied Physics Letters, 2015, 107, 033302.	1.5	16
21	Low Cost Universal Highâ€k Dielectric for Solution Processing and Thermal Evaporation Organic Transistors. Advanced Materials Interfaces, 2014, 1, 1300119.	1.9	15
22	Organic Optoelectronics: 2D Organic Materials for Optoelectronic Applications (Adv. Mater. 2/2018). Advanced Materials, 2018, 30, 1870012.	11.1	11
23	A Low-Temperature Solution-Process High-k Dielectric for High-Performance Flexible Organic Field-Effect Transistors. Frontiers in Materials, 2020, 7, .	1.2	10
24	Few-layered two-dimensional molecular crystals for organic artificial visual memories with record-high photoresponse. Journal of Materials Chemistry C, 2021, 9, 8834-8841.	2.7	10
25	Stencil mask defined doctor blade printing of organic single crystal arrays for high-performance organic field-effect transistors. Materials Chemistry Frontiers, 2021, 5, 3236-3245.	3.2	10
26	Solution-processed crystalline organic integrated circuits. Matter, 2021, 4, 3415-3443.	5.0	9
27	Deposition rate related DPA OFET threshold voltage shift and hysteresis variation. Journal of Materials Chemistry C, 2018, 6, 12498-12502.	2.7	6
28	Flexible Hybrid Single-Crystalline Silicon Nanomembrane Thin-Film Transistor with Organic Polymeric Polystyrene as a Gate Dielectric on a Plastic Substrate. ACS Applied Electronic Materials, 2022, 4, 2281-2289.	2.0	6
29	Organic Single Crystals: N-Type 2D Organic Single Crystals for High-Performance Organic Field-Effect Transistors and Near-Infrared Phototransistors (Adv. Mater. 16/2018). Advanced Materials, 2018, 30, 1870114.	11.1	5
30	Improving the charge injection in bottom contact organic transistors by carbon electrodes. Journal of Materials Chemistry C, 2022, 10, 2838-2844.	2.7	5
31	DPA-MoS₂ van der Waals Heterostructures for Ambipolar Transistor and Wavelength-dependent Photodetection. , 2022, 4, 1483-1492.		4
32	High Dynamic Range Organic Temperature Sensor (Adv. Mater. 9/2013). Advanced Materials, 2013, 25, 1290-1290.	11.1	2