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	Improving the charge injection in bottom contact organic transistors by carbon electrodes. Journal of Materials Chemistry C, 2022, 10, 2838-2844.	2.7	5
2	Fine-tune chiroptical activity in discrete chiral Au nanorods. Nano Research, 2022, 15, 6574-6581.	5.8	30
3	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
4	DPA-MoS₂ van der Waals Heterostructures for Ambipolar Transistor and Wavelength-dependent Photodetection. , 2022, 4, 1483-1492.		4
5	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
6	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
7	Solution-processed crystalline organic integrated circuits. Matter, 2021, 4, 3415-3443.	5.0	9
8	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
9	A Low-Temperature Solution-Process High-k Dielectric for High-Performance Flexible Organic Field-Effect Transistors. Frontiers in Materials, 2020, 7, .	1.2	10
10	Solutionâ€Processed Centimeterâ€Scale Highly Aligned Organic Crystalline Arrays for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Materials, 2020, 32, e1908388.	11.1	99
11	Organic crystalline materials in flexible electronics. Chemical Society Reviews, 2019, 48, 1492-1530.	18.7	314
12	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
13	Low-Voltage Organic Single-Crystal Field-Effect Transistor with Steep Subthreshold Slope. ACS Applied Materials & Interfaces, 2018, 10, 25871-25877.	4.0	50
14	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
15	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
16	A Highâ€Performance Optical Memory Array Based on Inhomogeneity of Organic Semiconductors. Advanced Materials, 2018, 30, e1706647.	11.1	84
17	Organic Optoelectronics: 2D Organic Materials for Optoelectronic Applications (Adv. Mater. 2/2018). Advanced Materials, 2018, 30, 1870012.	11.1	11
18	2D Organic Materials for Optoelectronic Applications. Advanced Materials, 2018, 30, 1702415.	11.1	266

#	Article	IF	Citations
19	Deposition rate related DPA OFET threshold voltage shift and hysteresis variation. Journal of Materials Chemistry C, 2018, 6, 12498-12502.	2.7	6
20	Freeâ€Standing 2D Hexagonal Aluminum Nitride Dielectric Crystals for Highâ€Performance Organic Fieldâ€Effect Transistors. Advanced Materials, 2018, 30, e1801891.	11.1	32
21	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
22	Molecular cocrystals: design, charge-transfer and optoelectronic functionality. Physical Chemistry Chemical Physics, 2018, 20, 6009-6023.	1.3	143
23	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
24	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
25	A Lowâ€Operatingâ€Power and Flexible Activeâ€Matrix Organicâ€Transistor Temperatureâ€Sensor Array. Advanced Materials, 2016, 28, 4832-4838.	11.1	265
26	Fully transparent organic transistors with junction-free metallic network electrodes. Applied Physics Letters, 2015, 107, 033302.	1.5	16
27	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
28	Low Cost Universal Highâ€k Dielectric for Solution Processing and Thermal Evaporation Organic Transistors. Advanced Materials Interfaces, 2014, 1, 1300119.	1.9	15
29	High performance organic transistor active-matrix driver developed on paper substrate. Scientific Reports, 2014, 4, 6430.	1.6	110
30	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
31	High Dynamic Range Organic Temperature Sensor (Adv. Mater. 9/2013). Advanced Materials, 2013, 25, 1290-1290.	11.1	2
32	High Dynamic Range Organic Temperature Sensor. Advanced Materials, 2013, 25, 1291-1295.	11.1	68