Shijiao Han

List of Publications by Year
in descending order

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26	860	471509 17	677142 22
papers	citations	h-index	g-index

26	26	26	1206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Poly(3-hexylthiophene)/polystyrene (P3HT/PS) blends based organic field-effect transistor ammonia gas sensor. Sensors and Actuators B: Chemical, 2016, 225, 10-15.	7.8	159
2	Flexible spray-coated TIPS-pentacene organic thin-film transistors as ammonia gas sensors. Journal of Materials Chemistry C, 2013, 1, 6532.	5.5	118
3	UVâ€“Ozone Interfacial Modification in Organic Transistors for Highâ€sensitivity NO₂ Detection. Advanced Materials, 2017, 29, 1701706.	21.0	106
4	Performance improvement of organic field-effect transistor ammonia gas sensor using ZnO/PMMA hybrid as dielectric layer. Sensors and Actuators B: Chemical, 2014, 203, 9-16.	7.8	51
5	Sub-ppm and high response organic thin-film transistor NO2 sensor based on nanofibrillar structured TIPS-pentacene. Sensors and Actuators B: Chemical, 2019, 279, 238-244.	7.8	46
6	Improved Room Temperature NO₂ Sensing Performance of Organic Field-Effect Transistor by Directly Blending a Hole-Transporting/Electron-Blocking Polymer into the Active Layer. ACS Applied Materials & Interfaces, 2018, 10, 38280-38286.	8.0	40
7	Organic field-effect transistor gas sensor based on GO/PMMA hybrid dielectric for the enhancement of sensitivity and selectivity to ammonia. Organic Electronics, 2019, 67, 247-252.	2.6	37
8	Hysteresis mechanism and control in pentacene organic field-effect transistors with polymer dielectric. AIP Advances, 2013, 3, .	1.3	35
9	Crystallinity and grain boundary control of TIPS-pentacene in organic thin-film transistors for the ultra-high sensitive detection of NO₂. Journal of Materials Chemistry C, 2019, 7, 10196-10202.	5.5	34
10	Solvent-dependent electrical properties improvement of organic field-effect transistor based on disordered conjugated polymer/insulator blends. Organic Electronics, 2015, 27, 160-166.	2.6	30
11	Poly(vinyl alcohol) as a gas accumulation layer for an organic field-effect transistor ammonia sensor. Sensors and Actuators B: Chemical, 2017, 243, 1248-1254.	7.8	25
12	High mobility organic field-effect transistor based on water-soluble deoxyribonucleic acid via spray coating. Applied Physics Letters, 2015, 106, 043303.	3.3	24
13	Size-selected growth of transparent well-aligned ZnO nanowire arrays. Nanoscale Research Letters, 2012, 7, 517.	5.7	23
14	Interfacial modifying layer-driven high-performance organic thin-film transistors and their nitrogen dioxide gas sensors. Organic Electronics, 2017, 49, 334-339.	2.6	22
15	Biocompatible/Degradable Silk Fibroin:Poly(Vinyl Alcohol)-Blended Dielectric Layer Towards High-Performance Organic Field-Effect Transistor. Nanoscale Research Letters, 2016, 11, 439.	5.7	21
16	Investigation of the atmosphere influence on device characteristics and NO2 sensing performance of organic field-effect transistors consisting of polymer bulk heterojunction. Organic Electronics, 2018, 62, 114-120.	2.6	18
17	High performance low-voltage organic field-effect transistors enabled by solution processed alumina and polymer bilayer dielectrics. Synthetic Metals, 2015, 209, 337-342.	3.9	17
18	Tailoring the Dielectric Layer Structure for Enhanced Performance of Organic Field-Effect Transistors: The Use of a Sandwiched Polar Dielectric Layer. Materials, 2016, 9, 545.	2.9	16

#	Article	IF	Citations
19	Hole-transporting polymer dilution driven high performance organic transistor-based NO2 gas sensor. Materials Letters, 2019, 236, 285-288.	2.6	14
20	Achievement of High-Response Organic Field-Effect Transistor NO2 Sensor by Using the Synergistic Effect of ZnO/PMMA Hybrid Dielectric and CuPc/Pentacene Heterojunction. Sensors, 2016, 16, 1763.	3.8	13
21	High photoresponse inverted ultraviolet photodectectors consisting of iridium phosphor doped into poly(N-vinylcarbazole) polymeric matrix. Applied Physics Letters, 2014, 104, .	3.3	10
22	Effect of hydroxyl group in polymeric dielectric layer on the performance of organic thin-film transistors and their application for NO2 gas sensor. Journal of Materials Science: Materials in Electronics, 2019, 30, 20638-20645.	2.2	1
23	Discrepancies in performance for heterojunction organic field-effect transistors with different channel lengths. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 062401.	1.2	0
24	High performance organic field-effect transistor with oxide/metal bilayer electrodes. , 2012, , .		0
25	Organic Thinâ€Film Transistors: UVâ€“Ozone Interfacial Modification in Organic Transistors for Highâ€Sensitivity NO₂ Detection (Adv. Mater. 31/2017). Advanced Materials, 2017, 29, .	21.0	0
26	Influence of polymer additional modulating layer on the selectivity performance of organic field-effect transistor based gas sensor. , 2019, , .		0